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THE

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OF THE

HOUSE OF REPRESENTATIVES

FOR THE

SECOND SESSION OF THE FORTY-NINTH CONGRESS.

1886-'87.

VOLUME 5.—No. 135.

WASHINGTON:
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1887.

SMITHSONIAN INSTITUTION WASHINGTON

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ANNUAL REPORT

OF THE

COMMISSIONER OF PATENTS

FOR

THE YEAR 1886.

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ANNUAL REPORT

OF THE

COMMISSIONER OF PATENTS

TO CONGRESS,

FOR THE YEAR ENDING DECEMBER 31, 1886.

Laid before the House of Representatives by the Speaker, February 5, 1887, referred to the Committee on Patents, and ordered to be printed.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, January 31, 1887.

To the Senate and House of Representatives of the United States of America in Congress assembled:

The Commissioner of Patents is required by statute to "lay before Congress" during the month of January in each year an Annual Report, which shall contain detailed statements of all moneys received, of all expenditures for contingent and miscellaneous expenses, a list of all patents granted or extended during the year, and of all patentees, with their places of residence, and, finally, such other information as to the condition of the Patent Office as may be useful to Congress or the public.

The respective lists above mentioned, which are very voluminous, are furnished herewith in the usual way, and incorporated herein will be found the detailed statements referred to. At the outset, however, I desire briefly to call attention to a few subjects, which seems to be permissible under the last provision of the statute above mentioned.

ROOM.

In the last Annual Report of my immediate predecessor the attention of Congress was called particularly to the "utter inadequacy of room and facilities for conducting the business of the Patent Office." In my own last Annual Report attention was again directed to the situation. No provision has been made for our relief in this particular, and the same difficulties which were pointed out at length in each of such reports still exist.

OFFICIAL GAZETTE.

In 1872 a statute was enacted fixing the subscription price of the OFFICIAL GAZETTE at five dollars per annum, and under which statute copies are sent to various public libraries without charge. At that time, fifteen years ago, this publication was less than one-half its present size, and probably worth less than half its present value. I desire to invite the attention of Congress to the subject of increasing such subscription price.

In my last Annual Report I called attention to the fact that there was not and never had been any provision of law by which this Office was able to secure the reports of court decisions. I respectfully again call attention to this matter.

PHOTOLITHOGRAPHY.

The best and cheapest method of preparing the OFFICIAL GAZETTE as well as "producing copies of drawings of the weekly issues of patents, * * * copies of designs, trade-marks, and pending applications, and for the reproduction of exhausted copies," as provided by the statute, is accomplished by the art of photolithography. In the publication of the OFFICIAL GAZETTE and in the reproductions above mentioned there is expended annually on behalf of this Office about one hundred and thirty thousand dollars, ($130,000.) Under the present law annual contracts are made for the execution of this work.

Under the practice which now obtains in this Office, on Friday morning of each week preparations are begun for the patenting of all applications which have been allowed and in which the final government fee has been paid during the week next preceding. To secure a proper reproduction of such cases, it is necessary that the original drawings be transmitted to the office where the work of photolithographing is performed. On each Friday morning the drawings which are ready are sent to the photolithographer, where the proof-sheets are prepared. At noon of the same day these are returned to this Office and another lot of drawings taken. About four o'clock of the same day proof-sheets of these last-mentioned drawings are returned, and other drawings again taken; and so this work of photolithographing continues day by day. Upon the return of the proof-sheets to this Office careful comparison with the original drawings must be made by the employés here, and imperfect sheets (which amount to about five per cent. of the whole) must be corrected and returned without delay.

From the fact that the *original* drawings must be sent to the photolithographer for reproduction, and when it is considered that these drawings constitute the only illustrated record in the Patent Office of the inventions involved—as under the present rules of the Office models are dispensed with—it is apparent that any loss or damage thereto would not only greatly embarrass the Office but result in serious injury to inventors. Doubtless, in view of these considerations, a requirement was inserted in the present contract that the original drawings and corrected proofs must be returned to the Patent Office within one and one-half

day from the delivery to the contractor of such original drawings.

It is not absolutely impracticable that the work of preparing the OFFICIAL GAZETTE be performed elsewhere than in this city, provided the place be not too remote. This undoubtedly would be attended at times with serious inconvenience. For manifest reasons, however, the work of preparing the current issues of patents must be done in this city, and the proper reproduction elsewhere is simply impracticable, if not impossible. Inasmuch as proof-sheets of the photolithographs of the current issues are used in the preparation of the OFFICIAL GAZETTE, it need hardly be said that this work *entire* can probably be more cheaply performed by one firm than by several independent firms or contractors.

I have no doubt that all this work should and will in time be done by the Patent Office itself. It should not be dependent upon contractors. When the patent system is revised, corrected, and improved, as it probably should and doubtless will be in the not distant future, this important subject will be at least carefully considered.

LABORATORY.

I again call attention to the fact that provision ought to be made for the proper testing of apparatus relating to inventions pertaining to electricity. I have several times been requested to and have permitted the examiner in charge of the electrical division to go a long distance to witness electrical experiments which could not, for want of room and facilities, be attempted here.

EMPLOYÉS.

At the first session of the present Congress I had occasion to call attention to the fact that an increase of force was imperatively needed in this Office. I am much gratified to be able to state that after the submission of my report I was able to more carefully consider this question and to explain orally to the Committee on Appropriations of the House of Representatives our absolute needs. It is sufficient to say that substantially all the help which I then asked for was furnished, and I see no need of any additions to the force now employed. With the present number of employés and adequate room and facilities the work can be done, and well done.

SALARIES.

I do not desire to make any specific suggestion in regard to the question of salaries. It is, however, apparent to me that this subject needs a complete revision in this Office. The salaries of the employés are not adjusted as they should be. In my judgment, a proper adjustment can and should be made, which will result in great good to the Office and in no aggregate increase.

LEGISLATION.

I again call attention to the fact that section 4885 of the Revised Statutes, relating to the date which a patent shall bear; section 4887, in regard to its limitation; section 4898, relating to assignments of patents and the record thereof, and section 4936, relating to the reimbursement of persons who have, through mistake, paid money into the Treasury for fees accruing at this Office, should probably be respectively amended. My recollection is that during the first session of the present Congress bills were prepared providing for these respective amendments, introduced, and referred to the Committee on Patents of the House of Representatives.

In my last annual report the following statement was made:

> At the present time, in addition to his administrative duties, the Commissioner is called upon to hear all cases of appeal from the rejection of an application by the Examiners-in-Chief, as well as to finally hear and determine all interference cases which may be appealed to him. Aside from the burden which this imposes upon the head of this Office, there is a want of uniformity in the decisions which emanate from time to time from the respective Commissioners of Patents, which ought to be corrected. I know of no better way to correct this evil than the establishment of some tribunal, to consist of at least three judges, whose tenure of office shall be fixed, and to whom all appeals shall lie. I have no doubt that the establishment of such a tribunal with such jurisdiction would not only make it possible for the Commissioner to conduct a more successful administration of his Office, but would secure to inventors and to the public a much more intelligent and uniform exposition of the law of patents and of the important questions which now of necessity must be determined so hastily.

I again invite attention to this subject for the purpose of asserting that my experience of the year last past has not only confirmed me in the views which I then expressed, but has made much more manifest to me the necessity for some legislation of this character. A court of sufficient dignity and strength ought to be created, and such tribunal might very properly be invested with final jurisdiction in all matters pertaining to the patentability of an alleged invention, as well as all matters of interference between litigating applicants. Such a court with such a jurisdiction would not only result in leaving the Commissioner free to attend to the other pressing duties of his Office, but would inevitably relieve the federal courts of much of the litigation upon these subjects with which they are now burdened.

CONCLUSION.

At the date of my last report to the Congress of the United States the current business of one examining division of this Office was two hundred and eighty-eight days in arrears; that of another, two hundred and fifty-nine days; that of another, one hundred and eighty-two days; another, one hundred and sixty-eight days, and still three others more than one hundred days. I am glad to be able to state that at the present time but four divisions are in arrears one hundred days and upward, and the one furthest in arrears is about one hundred and fifty days.

It is undoubtedly well understood that the first legislation by Congress upon the subject of promoting "the progress of science and the useful arts by securing by legislation for limited times to authors and inventors the exclusive right to their inventions and discoveries" was in the act approved April 10, 1790. From that time until 1836 our patent system was substantially like the present system of England and most of the countries of Europe; that in this last-mentioned year a thorough and complete revison of the entire legislation upon this subject was had, and that on the 4th of July, 1836, a statute was approved which to-day remains upon the statute-books in nearly all its essential features absolutely unchanged.

In the year 1837 four hundred and thirty-six patents were issued, while during the fiscal year ending June 30 last the number of patents issued was twenty-five thousand six hundred and nineteen.

In the statute of 1836 provision was made for the employment of but six persons all told, aside from the Commissioner, and these six persons were paid an aggregate annual salary of six thousand eight hundred and fifty dollars. The revenues of the Office during

the year 1837 were less than thirty thousand dollars. At the present time nearly six hundred persons are employed in the Patent Office at an aggregate annual salary of about six hundred and fifty thousand dollars, and the revenues of the Office for the fiscal year last past reached the large sum of one million two hundred thousand dollars, and this important Bureau, which is so intimately connected with all the substantial prosperity of the country, has not only *not* been a pecuniary burden upon the Government, but, aside from paying expenses, has a surplus of more than three million dollars.

I feel so confident that changes and modifications, too numerous to be dwelt upon in detail or to be pointed out in this report, of a substantial character, which would materially affect the prosperity and usefulness of this Office entire, are imperatively needed, that I cannot refrain from concluding by again urging upon Congress the necessity of providing in some way, by commission or otherwise, for a complete and exhaustive revision of the entire legislation, and, probably, of the rules which affect this Office.

RECEIPTS.

Detailed statement of all moneys received for patents, for copies of records or drawings, or from any source whatever.

Applications:	
Cash received	$998,931 00
Cash refunded	3,310 00
Net cash	995,621 00
Certificates of deposit	46,469 00
Total cash and certificates	1,042,090 00
Copies:	
Cash received	73,148 15
Cash refunded	2,013 00
Net cash	71,135 15
Certificates of deposit	540 20
Total cash and certificates	71,675 35
Recording assignments:	
Cash received	24,532 60
Cash refunded	1,425 00
Net cash	23,107 60
Certificates of deposit	148 70
Total cash and certificates	23,256 30
Subscription to Official Gazette:	
Cash received	13,963 15
Cash refunded	81 40
Net cash	13,881 75
Certificates of deposit	45 00
Total cash and certificates	13,926 75
Registration of labels:	
Cash received	4,685 00
Cash refunded	1,154 00
Net cash	3,531 00
Certificates of deposit	72 00
Total cash and certificates	3,603 00
Aggregates.	
Cash received	1,115,259 90
Cash refunded	7,983 40
Net cash	1,107,276 50
Certificates of deposit	47,274 90
Total cash and certificates	1,154,551 40

EXPENDITURES.

Amount expended by this Office under the several appropriations from January 1, 1886, to December 31, 1886.

Salaries	$605,948 80
Official Gazette	41,898 70
Photolithographing	86,786 75
Scientific library	2,638 17
Transportation of publications to foreign governments	184 30
Total	737,476 72

*Approximate amount expended by the Department of the Interior on account of this Office from January 1, 1886, to December 31, 1886.**

Stationery	$9,657 24
Postage on foreign matter	878 00
Printing and binding	200,895 53
Watch force	16,690 00
Contingent expenses, (including furniture, hardware, carpets, ice, file-holders, desks, cases, washing towels, keeping of horse, &c., telephone, winding clocks, and sundries)	26,905 96
Total	255,026 73
Aggregate amount of expenditures	992,503 45

RECEIPTS OVER EXPENDITURES.

Total receipts	$1,154,551 40
Total expenditures	992,503 45
Receipts over expenditures	162,047 95

Statement of balance in the Treasury of the United States on account of the Patent fund.

Amount to the credit of the fund January 1, 1886	$2,945,405 58
Amount of receipts during the year 1886	1,154,551 40
Total	4,099,956 98
Deduct expenditures for the year 1886	992,503 45
Balance January 1, 1887	3,107,453 53

SUMMARY OF THE BUSINESS OF THE PATENT OFFICE.

Number of applications for patents for inventions	35,161
Number of applications for patents for designs	645
Number of applications for reissues of patents	162
Total number of applications relating to patents	35,968
Number of caveats filed	2,512
Number of applications for registration of trade-marks	1,280
Number of applications for registration of labels	792
Number of disclaimers filed	7
Number of appeals on the merits	882
Total	5,474
Total number of applications requiring investigation and action	41,442
Number of patents issued, including designs	22,392
Number of patents reissued	116
Number of trade-marks registered	1,029
Number of labels registered	378
Total	23,915
Number of patents expired during the year	12,957
Number of patents withheld for non-payment of final fee	3,308

*A literal compliance with the provisions of the statute requiring "a detailed statement of all expenditures for contingent and miscellaneous expenses" is not possible, for the reason that the contingent fund for the several bureaus of this Department was consolidated by the act of March 3, 1883, and hence no part of that fund is disbursed by the Patent Office, and I am furnished only with an approximate sum, supposed to have been so expended on behalf of the Patent Office.

PATENTS ISSUED.

Patents issued to citizens of the United States, with the ratio of population to each patent granted.

States and Territories.	Patents and Designs.	One to every—	States and Territories.	Patents and Designs.	One to every—
Alabama	59	21,398	Montana Territory	24	1,631
Arizona Territory	13	3,110	Nebraska	131	3,453
Arkansas	61	13,155	Nevada	14	4,447
California	524	1,650	New Hampshire	157	2,210
Colorado	111	1,750	New Jersey	923	1,225
Connecticut	854	729	New Mexico Territory	12	9,963
Dakota Territory	60	2,252	New York	4,121	1,233
Delaware	42	3,490	North Carolina	75	18,663
District of Columbia	201	883	Ohio	1,599	2,000
Florida	41	6,573	Oregon	60	2,912
Georgia	140	11,015	Pennsylvania	2,229	1,871
Idaho Territory	6	5,435	Rhode Island	251	1,101
Illinois	1,798	1,711	South Carolina	46	21,640
Indian Territory	2	.....	Tennessee	136	11,340
Indiana	699	2,830	Texas	266	5,984
Iowa	452	3,594	Utah Territory	24	5,998
Kansas	283	3,519	Vermont	117	2,840
Kentucky	251	6,568	Virginia	122	12,398
Louisiana	95	9,894	Washington Territory	32	2,347
Maine	138	4,702	West Virginia	83	7,451
Maryland	270	3,462	Wisconsin	398	2,305
Massachusetts	2,116	842	Wyoming Territory	8	2,598
Michigan	768	2,131	United States Army	3	.....
Minnesota	288	2,711	United States Navy	3	.....
Mississippi	52	21,761			
Missouri	685	3,165	Total	20,903	.....

Patents issued to citizens of foreign countries.

Of patents issued to foreigners, there were granted to citizens of—

Algeria	1	Japan	1
Argentine Republic	1	Monaco	1
Australia	2	Mexico	6
Austria-Hungary	47	Netherlands	2
Belgium	17	Newfoundland	2
Brazil	2	New South Wales	4
British Guiana	1	New Zealand	6
Canada	275	Norway	4
Cape of Good Hope	1	Roumania	1
Central America	7	Russia	8
Corea	1	Scotland	36
Cuba	4	South Australia	3
Denmark	9	Spain	4
England	548	Sweden	18
France	144	Switzerland	34
Germany	272	Victoria	5
Hawaii	5	West Indies	1
India	1		
Ireland	9	Total	1,489
Italy	6		

Comparative statement of the business of the Office from 1837 to 1886, inclusive.

Year.	Applications.	Caveats filed.	Patents and reissues.	Cash received.	Cash expended.	Surplus.	Year.	Applications.	Caveats filed.	Patents and reissues.	Cash received.	Cash expended.	Surplus.
1837	.....	.....	435	$29,289 08	$33,506 98	.....	1862	5,038	824	3,532	$215,754 99	$182,810 39	$32,944 60
1838	.....	.....	520	42,123 54	37,402 10	$4,721 44	1863	6,014	787	4,184	195,593 29	189,414 14	6,179 15
1839	.....	.....	425	37,260 00	34,543 51	2,716 49	1864	6,932	1,063	5,025	240,919 98	229,868 00	11,051 98
1840	735	228	473	38,056 51	39,020 67	.....	1865	10,664	1,937	6,616	348,791 84	274,199 34	74,592 50
1841	847	312	495	40,413 01	52,666 87	.....	1866	15,269	2,723	9,458	495,665 38	361,724 28	133,941 10
1842	761	391	517	36,505 68	31,241 48	5,264 20	1867	21,276	3,597	13,026	646,581 92	639,263 32	7,318 60
1843	819	315	510	35,315 81	30,776 96	4,538 85	1868	20,420	3,705	13,410	681,565 86	628,679 77	52,886 09
1844	1,045	380	495	42,509 26	36,244 73	6,264 53	1869	19,271	3,624	13,897	693,145 81	486,430 78	206,715 03
1845	1,246	452	504	51,076 14	39,395 65	11,680 49	1870	19,171	3,273	13,333	669,456 76	557,149 19	112,307 57
1846	1,272	448	638	50,264 16	46,158 71	4,105 45	1871	19,472	3,366	13,056	678,716 46	560,595 08	118,121 38
1847	1,531	553	569	63,111 19	41,878 35	21,232 84	1872	18,246	3,090	13,613	699,726 39	665,591 36	34,135 03
1848	1,628	607	652	67,576 69	58,905 84	8,670 85	1873	20,414	3,248	12,864	703,191 77	691,178 98	12,012 79
1849	1,955	595	1,068	80,752 98	77,716 44	3,036 54	1874	21,602	3,181	13,599	738,278 17	679,288 41	58,989 76
1850	2,193	602	993	86,927 05	80,100 55	6,816 10	1875	21,638	3,094	14,837	743,453 36	721,657 71	21,795 65
1851	2,258	760	872	95,738 61	86,916 93	8,821 68	1876	21,425	2,697	15,595	757,987 65	652,542 60	105,445 05
1852	2,639	996	1,019	112,656 34	95,916 91	16,739 43	1877	20,308	2,809	14,187	732,342 85	613,152 62	119,190 23
1853	2,673	901	961	121,527 45	132,869 83	.....	1878	20,260	2,755	13,444	725,375 55	593,082 89	132,292 66
1854	3,328	868	1,844	163,789 84	167,146 32	.....	1879	20,059	2,620	13,213	703,931 47	529,938 97	174,292 50
1855	4,435	906	2,012	216,459 35	179,540 33	36,919 02	1880	23,042	2,490	13,947	749,685 32	538,865 17	210,820 15
1856	4,960	1,024	2,506	192,588 02	199,931 02	.....	1881	26,059	2,406	16,584	853,665 89	605,173 28	248,492 61
1857	4,771	1,010	2,896	196,132 01	211,582 09	.....	1882	31,522	2,553	19,267	1,009,219 45	683,867 67	325,351 78
1858	5,364	934	3,695	203,716 16	193,193 74	10,522 42	1883	35,577	2,741	22,383	1,146,240 00	675,234 86	471,005 14
1859	6,225	1,097	4,504	245,942 15	210,278 41	35,663 74	1884	35,600	2,582	20,413	1,075,798 80	970,579 76	105,219 04
1860	7,653	1,084	4,778	256,352 59	252,820 80	3,531 79	1885	35,717	2,552	24,233	1,188,098 15	1,024,378 85	163,719 30
1861	4,643	700	3,329	137,354 44	221,491 91	.....	1886	35,968	2,513	22,508	1,154,551 40	992,503 40	162,047 95

Statement showing the number of the first patent, design patent, and reissued patent, and the number of the first certificate of registration of a trade mark and a label issued in each calendar year since July 28, 1836, when the present series of numbers of letters patent commenced, together with the total number of each issued during the year. The number of patents granted prior to the commencement of this series of numbering (July 28, 1836) was 9,957.

Year.	Number of first patent and certificate issued in each calendar year.					Number of patents and certificates of registration issued during each calendar year.						
	Patents.	Designs.	Reissues.	Trade-marks.	Labels.	Patents.	Designs.	Reissues.	Total patents.	Trade-marks.	Labels.	Total certificates.
1836 July 28	1					109						
1837	110					436						
1838	546		1			415		6				
1839	1,061		7			404		13				
1840	1,465		20			458		10				
1841	1,923		30			490		6				
1842	2,413		36			488		13				
1843	2,901	1	49			494	14	11	519			
1844	3,395	15	60			477	12	7	496			
1845	3,872	27	67			476	17	11	504			
1846	4,348	44	78			566	59	13	638			
1847	4,914	103	91			495	60	14	569			
1848	5,409	163	105			583	46	23	652			
1849	5,992	209	128			989	49	30	1,068			
1850	6,981	258	158			884	83	26	993			
1851	7,865	341	184			757	90	25	872			
1852	8,622	431	209			890	109	20	1,019			
1853	9,512	540	229			846	86	29	961			
1854	10,358	626	258			1,759	57	28	1,844			
1855	12,117	683	286			1,891	70	51	2,012			
1856	14,008	753	337			2,316	107	83	2,506			
1857	16,394	860	420			2,686	113	97	2,896			
1858	19,010	973	517			3,467	142	126	3,695			
1859	22,477	1,075	643			4,165	108	231	4,504			
1860	26,642	1,183	874			4,363	183	232	4,778			
1861	31,005	1,366	1,106			3,040	142	147	3,329			
1862	34,045	1,508	1,253			3,221	195	116	3,532			
1863	37,366	1,703	1,369			3,781	176	227	4,184			
1864	41,047	1,879	1,596			4,638	139	248	5,025			
1865	45,685	2,018	1,844			6,099	221	296	6,616			
1866	51,784	2,239	2,140			8,874	294	290	9,458			
1867	60,658	2,533	2,430			12,301	325	400	13,026			
1868	72,959	2,858	2,830			12,544	446	420	13,410			
1869	85,503	3,304	3,250			12,957	506	534	13,997			
1870	98,460	3,810	3,784	1		12,157	737	439	13,333	121		121
1871	110,617	4,547	4,223	122		11,687	905	464	13,056	486		486
1872	122,304	5,442	4,687	608		12,200	884	529	13,613	491		491
1873	134,504	6,336	5,216	1,099		11,616	747	501	12,864	492		492
1874	146,120	7,083	5,717	1,591	1	12,230	886	483	13,599	559	232	791
1875	158,350	7,969	6,200	2,150	233	13,291	915	631	14,837	1,138	232	1,370
1876	171,641	8,884	6,831	3,288	465	14,172	802	621	15,595	959	472	1,431
1877	185,813	9,686	7,452	4,247	937	12,920	699	568	14,187	1,216	392	1,608
1878	198,733	10,385	8,920	5,463	1,329	12,345	590	509	13,444	1,455	492	1,947
1879	211,078	10,975	8,529	6,918	1,821	12,133	592	488	13,213	872	355	1,227
1880	223,211	11,567	9,017	7,790	2,176	12,926	515	506	13,947	349	203	552
1881	236,137	12,082	9,523	8,139	2,379	15,548	565	471	16,584	836	202	1,038
1882	251,685	12,647	9,994	8,973	2,581	18,135	861	271	19,267	947	304	1,251
1883	269,820	13,508	10,265	9,920	2,885	21,196	1,020	167	22,383	902	906	1,808
1884	291,016	14,528	10,432	10,832	3,791	19,147	1,150	116	20,413	1,021	513	1,534
1885	310,163	15,678	10,548	11,843	4,304	23,331	773	129	24,233	1,067	391	1,458
1886	333,494	16,451	10,677	12,910	4,695	21,797	595	116	22,508	1,029	378	1,407
1887	355,291	17,046	10,793	13,939	5,073							

If the foregoing report shall succeed in inviting the attention of Congress to the importance of the interests committed to this Office, and to its wants, especially in the way of necessary legislation, I shall be abundantly satisfied.

All of which is respectfully submitted.

Very respectfully, your obedient servant,

M. V. MONTGOMERY,
Commissioner.

ALPHABETICAL LIST

OF

PATENTEES FOR THE YEAR 1886.

[Patentees of Designs, Trade-Marks, and Labels, and parties who have filed Disclaimers follow this in separate indexes, but precede the Alphabetical List of Inventions.]

Name, residence, and invention.	No.	Date.	Monthly volume. Specification.	Monthly volume. Drawing.	Official Gazette. Volume.	Official Gazette. Pages.
Abare, Newell, Lowell, Mass. Picking mechanism for looms	352,905	Nov. 23	1633	439	37	789
Abbett, Henry, Carrollton, Ky. Padlock	346,011	July 20	1739	448	36	324
Abbett, Leon. (See White, Lewis B., assignor.)						
Abbett, Leon. (See White, Jackson, and Van Buren, assignors.)						
Abbey, Albion L., and F. J. French, Miles Grove, Pa.; said Abbey assignor to said French. Combined baby-jumper, swing, and reclining-chair	342,855	June 1	108	27	35	1926
Abbot, Isaac A., Denver, Colo. Automatic attachment for stove or range dampers	352,727	Nov. 16	1393	377	37	734
Abbott, Edwin W., *et al.* (See Punches, Oscar J., assignor.)						
Abbott, Granville, Harrison, Minn. Milk-pail holder	355,044	Dec. 28	2022	532	37	1402
Abbott, Henry, Newark, N. J. Stem winding and setting watch	335,731	Feb. 9	908	240	34	611
Abbott, Henry, Newark, N. J. Stem winding and setting mechanism for watches	335,732	Feb. 9	912	240	34	611
Abbott, Henry, Newark, N. J. Stem winding and setting attachment for watches	335,733	Feb. 9	914	240, 241	34	612
Abbott, Henry, Newark, N. J. Stem winding and setting mechanism for watches	346,254	July 27	2075	533, 534	36	398
Abbott, Isaac A., Denver, Co'o. Damper attachment	344,151	June 22	1974	505	35	1387
Abbott, James, Elmira, N. Y. Freight-car-door lock	343,355	June 8	869	219	35	1172
Abbott, James G., Lawrence, Mass. Carriage-cover support	345,821	July 20	1471	380	36	277
Abbott, Levi, Cambridge, assignor of one-half to G. C. Barney, Boston, Mass. Shutter-fastener	350,095	Oct. 5	1	1	37	3
Abbott, Noel, Kansas City, Mo. Grip for cable railways	345,354	July 13	771	193	36	144
Abbott, Orson, *et al.* (See Punches, Oscar J., assignor.)						
Abbott, Paschal J., Dexter, Me. Carriage-jack	333,807	Jan. 5	424	115	34	80
Abbott, Phillips, Brooklyn, assignor to W. M. Ducker, New York, N. Y. Combined match-box and cigar-cutter	337,807	Mar. 16	1245	323	34	1163
Abbott, Warren N. (See Knight, John A., assignor.)						
Abbott, William. (See Edgar, Butler, assignor.)						
Abele, Christian, New York, N. Y. Grinding-mill	340,271	Apr. 20	1689	430	35	314
Abell, Bernard M., New York, N. Y. Slate-washer	341,202	May 4	318	90	35	563
Abell, John J., and C. B. Gifford, Colesburg, Ky. Pendulum for electric clocks	351,239	Oct. 19	1617	424, 425	37	309
Abell, William P., Kirkby Lodge, Hinckley, county of Leicester, England. Lever cotton-press	335,871	Feb. 9	1103	292	34	647
Abercrombie, Alexander V. (See Abercrombie, Charles M. and A. V.)						
Abercrombie, Charles M. and A. V., Bridgeport, Conn. Sewing-machine bobbin	347,678	Aug. 17	1704	455	36	796
Abercrombie, Frank P., Camden, N. J. Railway-signal	349,131	Sept. 14	821	208	36	1201
Abernathy, W. C., *et al.* (See Taliaferro, Eilbeck H., assignor.)						
Abernethy, Robert S., Rutherford College, N. C. Keying-clamp	338,458	Mar. 23	2139	559	34	1334
Abney, Henry, Crawford, Miss. Grinding attachment for sewing-machines	337,911	Mar. 16	1378	358	34	1187
Abrahams, Abram, East St. Louis, Ill. Swivel for watch-chains	348,811	Sept. 7	365	99	36	1115
Abrahams, Benjamin B. (See Deutsch, Ignatz, assignor.)						
Absterdam, John, assignor to J. M. Pelton, New York, N. Y. Telegraphic switch	354,996	Dec. 28	1950	514, 515	37	1390
Abt, Roman, Bünzen, Switzerland, assignor of one-half to O. Gruninger, New York, N. Y. Locomotive	339,831	Apr. 13	1061	263, 264	35	194
Abt, Roman, Bünzen, Switzerland, assignor of one-half to O. Gruninger, New York, N. Y. Rack-rail for railways	349,624	Sept. 21	1481	383, 384	36	1339
Accles, James G., Hartford, Conn. Carriage for machine-guns	348,180	Aug. 31	2437	653, 654	36	945
Acheson, Edward G., New York, N. Y. Conductor of electricity	342,892	June 1	166	42	35	1036
Acheson, Edward G., New York, N. Y. Manufacturing electric conductors	343,099	June 1	463	118	35	1091
Acheson, Nathan B., assignor of two-thirds to J. M. Walter, Youngstown, and J. M. Ferris, Cleveland, Ohio. Proportional water-meter	339,832	Apr. 13	1065	265	35	195
Acheson, William, assignor of one-fourth to W. D. Young, Pittsburg, Pa. Metallurgical furnace	338,907	Mar. 30	2781	732	34	1452
Acheson, William J., Denver, Colo. Fluid-pressure regulator	334,326	Jan. 12	1188	319	34	229
Acker, Willitt H., Syracuse, N. Y. Combined latch and lock	349,195	Sept. 14	962	232	36	1217
Ackerman, William J., Grand Rapids, Mich. Bed-slat fastener	340,651	Apr. 27	2229	584	35	418
Ackermann, Albert H. (See Palmer, Noyes F., assignor.)						
Ackermann, George, Cincinnati, Ohio, and J. Wagner, Dayton, Ky. Apparatus for canning fruits, meats, &c	353,911	Dec. 7	377	100	37	1076
Ackerson, Charles H., San Francisco, Cal. Grease-trap	350,181	Oct. 5	119	34	37	25
Ackerson, Garret G., St. Louis, Mo. Corset	346,239	July 27	2188	561	36	418
Ackerson, Garret G., and J. F. Shy, St. Louis, Mo. Door-lock	337,108	Mar. 2	300	79	34	982
Ackley, Ami C., *et al.* (See Henderson, Harry D., assignor.)						
Ackley, John A., Cleveland, Ohio. Extension-handle	349,917	Sept. 28	1892	489	36	1425
Acme Dust Collector and Wheat Cleaning Company. (See Holt, Noah W., assignor.)						
Acme Hay Harvester Company. (See Alden, Horace A., assignor.)						
Acme Liquid Fuel Company of New York. (See Roberts, James, assignor.)						
Acme Manufacturing Company. (See Shamp, George W., assignor.)						
Acme Manufacturing Stock Company. (See Rolf, Harry C., assignor.)						
Acton, John, New York, N. Y. Pressure-regulator	335,734	Feb. 9	916	241	34	612

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Adair, Addison A., *et al.* (See Byrkit, Edwin M., assignor.)						
Adair, Annie E., Sulphur Springs, Tex. Ironing-table	351,240	Oct. 19	1620	425	37	309
Adam, George H., Louisville, Ky. Governor for steam-engines	340,652	Apr. 27	2230	584	35	418
Adam, George J., *et al.* (See Bernhardt, Charles, assignor.)						
Adam, William, Kidderminster, county of Worcester, England. Loom for weaving chenille or fur pile fabrics	336,197	Feb. 16	1595	418, 419	34	738
Adam, William J. (See Brainard, Curtis B., assignor.)						
Adamanta Manufacturing Company. (See Kissel, Albert, assignor.)						
Adams, A. Bigelow, and E. S. Dodge, Providence, R. I. Ear-knob	335,100	Feb. 2	1	1	34	441
Adams, A. Lemuel, New York, N. Y. Roller and extension axle	338,459	Mar. 23	2140	559, 560	34	1334
Adams, Abe L., Bridgeport, Conn. Exhibition-drawer	336,615	Feb. 23	2189	571, 572	34	848
Adams, Asa E. (See Adams, Ephraim H. and A. E.)						
Adams Company, F. F. (See Hurley, John A., assignor.)						
Adams, Daniel L., Reading, Pa. Sectional steam-boiler	349,918	Sept. 28	1892	489, 490	36	1425
Adams, E. A., *et al.* (See Warner, John P., assignor.)						
Adams, Edgar A. (See Thompson, George F., assignor.)						
Adams, Edwin, Newburyport, Mass., assignor to Eppler & Adams Sewing Machine Company, Saco, Me. Boot and shoe sewing machine	337,291	Mar. 2	552	145, 146	34	1028
Adams, Edwin B., Springfield, Mass. Inhaler	350,711	Oct. 12	864	232	37	165
Adams, Edwin L. (See Dales and Adams.)						
Adams, Ephraim H. and A. E., Sandusky, Ohio. Farm-gate	354,005	Dec. 7	515	140	37	1100
Adams, Franklin L. (See Barnett and Adams.)						
Adams, George, Sherburne, Minn. Flaxseed-separator	333,911	Jan. 5	565	153	34	106
Adams, George, Waterbury, Conn. Revolving mold for casting tubes	348,709	Sept. 7	243	64	36	1092
Adams, George B. (See Walter, Willie C., assignor.)						
Adams, George B., assignor of one-half to C. Campbell, Newark, N. J. Purse, bag, &c	336,541	Feb. 23	2081	547	34	831
Adams, George F., *et al.* (See Allgire, James R., assignor.)						
Adams, George Q., Quincy, Ill. Supporting-frame for wire-reels of wire-twisting machines	334,403	Jan. 19	1297	351	34	255
Adams, George S., Worcester, Mass. Tool for turrets of turret-lathes	352,795	Nov. 16	1481	399, 400	37	751
Adams, George S., J. Roach, and E. A. Sherwood, Rondout, N. Y. Rack-collar for the tempering-wheels of pug-mills	351,086	Oct. 19	1417	372	37	271
Adams, Gilbert L., Altoona, Pa. Car-brake	347,911	Aug. 24	2040	539	36	865
Adams, H. Raymond, Marseilles, Ill. Double-acting pump	333,808	Jan. 5	425	116	34	80
Adams, Henry, London, and W. Adams, Nine Elms, county of Surrey, England. Blast-pipe for locomotive-engines	341,865	May 18	1237	331	35	755
Adams, Henry A., Cedar Rapids, Iowa. Hammock-support	340,071	Apr. 20	1393	351	35	261
Adams, Henry A., Sandwich, Ill. Grinding-mill	348,607	Sept. 7	104	29, 30	36	1066
Adams, Henry K., Nashville, Tenn. Locomotive	353,395	Nov. 30	2334	623, 624	37	927
Adams, Henry P., assignor of five-eighths to J. N. Brady and R. C. Blackall, Albany, N. Y. Construction of railway-tracks and the constituent parts thereof	348,877	Sept. 7	456	120	36	1131
Adams, James A., assignor of one-half to L. Newelt, Atlanta, Ga. Steam-boiler feeder	345,355	July 13	774	194	36	145
Adams, James E. and J. W., Glassborough, N. J., assignors, by mesne assignments, to New Giant Power Company. Mechanical movement	341,438	May 11	653	177	35	633
Adams, John, Findlay, Ohio. Heat ng stove or furnace	344,558	June 29	2544	657	35	1497
Adams, John, and J. G. Lewis, Harrisville, Ohio. Shaft-tug	344,431	June 29	2366	609	35	1466
Adams, John B. (See Myers, William R., assignor.)						
Adams, John B., Camden, N. J. Fuel-block and fire-kindler	344,891	July 6	137	.....	36	25
Adams, John M., and W. F. Carter, San Francisco, Cal. Ore-concentrator	337,471	Mar. 9	823	209	34	1080
Adams, John P., trustee. (See Shaw, Charles H., assignor.)						
Adams, John Q., Saginaw, Mich. Machine for sawing off stumps	343,787	June 15	1481	372	35	1289
Adams, John Q., Marseilles, Ill. Stalk-cutter	353,010	Nov. 23	1780	479	37	815
Adams, John S., Elgin, Ill., assignor to Detroit Iron Tower Company, Detroit, Mich. Pipe-coupling	335,101	Feb. 2	1	1	34	441
Adams, John S., assignor to Detroit Iron Tower Company, Detroit, Mich. Tower	335,102	Feb. 2	3	1	34	441
Adams, John S., assignor to Detroit Iron Tower Company, Detroit, Mich. Skeleton tower for electric lights	336,371	Feb. 16	1851	485, 486	34	783
Adams, John S., assignor to Jenney Electric Company, Indianapolis, Ind. Mast or tower	354,758	Dec. 21	1626	430	37	1316
Adams, John S., assignor to Jenney Electric Company, Indianapolis, Ind. Mast-arm	354,759	Dec. 21	1627	430, 431	37	1317
Adams, John S., assignor to Jenney Electric Company, Indianapolis, Ind. Reflector	354,760	Dec. 21	1629	431	37	1317
Adams, John W. (See Adams, James E. and J. W.)						
Adams, John W., Kelat, Ky. Railway-switch	348,608	Sept. 7	106	30	36	1067
Adams, Joseph, assignor to J. J. and W. H. Glazier and G. R. Repplier, Philadelphia, Pa. Circular-knitting machine	353,244	Nov. 23	2112	566, 567	37	880
Adams, Michael. (See Willing, Rudolph, assignor.)						
Adams, Paul R., assignor of one-half to H. Gerlach, Philadelphia, Pa. Spark-arrester	346,012	July 20	1741	448	36	325
Adams, Peter. (See Shepard and Adams.)						
Adams, Robert, Southwark, county of Surrey, England. Converting widow-sashes into revolving sashes or fan-lights, &c	351,146	Oct. 19	1496	392	37	286
Adams, Robert, Southwark, county of Surrey, England. Device for operating transoms, skylights, &c	351,147	Oct. 19	1497	392	37	287
Adams, Robert, Southwark, county of Surrey, England. Transom-lifter	354,296	Dec. 14	960	254	37	1187
Adams, Samuel W., Chicago, Ill. Machine for polishing the interior of metal tubes	335,266	Feb. 2	255	67, 68	34	486
Adams, Sophie E., *et al.* (See Adams, William D., assignor.)						
Adams, Thomas, Jr., Highland, N. Y. Folding clothes-rack	338,011	Mar. 16	1532	397	34	1214
Adams, Thomas E., Cleveland, Ohio. Commutator for dynamo-electric machines	340,537	Apr. 27	2063	533	35	391
Adams, Thomas E., Cleveland, Ohio. Lubricator for commutators	351,148	Oct. 19	1498	392	37	287
Adams, Thomas E., Cleveland, Ohio. Electro-magnetic regulator	351,351	Oct. 26	1775	467	37	343
Adams, W. Irving, Montclair, N. J., assignor to Scovill Manufacturing Company, New York, N. Y. Pan for the use of photographers	345,871	July 20	1539	398	36	288
Adams, W. Irving, Montclair, N. J., assignor to Scovill Manufacturing Company, New York, N. Y. Photographic-printing frame	346,255	July 27	2078	534	36	398
Adams, Walter G., Sandwich, Ill. Winding-drum	349,196	Sept. 14	903	232	36	1217
Adams & Westlake Manufacturing Company of Michigan. (See Armour and Bielefeld, assignors.)						
Adams, William. (See Adams, Henry and W.)						
Adams, William D., assignor to H. and J. Blendermann, New York, J. Cummiskey, Brooklyn, and S. E. Adams, New York, N. Y. Steam-generator	340,408	Apr. 20	1876	482	35	350

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Adams, William D., assignor to H. and J. Blendermann, New York, J. Cummiskey, Brooklyn, and S. E. Adams, New York, N. Y. Steam-generator	341,122	May 4	207	63	35	543
Adams, William G., Philadelphia, Pa. Device for converting reciprocating into rotary motion	336,978	Mar. 2	126	34	34	948
Adams, William H., assignor to himself and G. Y. Rhind, Fort McIntosh, Laredo, Tex. Revolving target	350,227	Oct. 5	184	53	37	38
Adams, William H., Wharton, assignor of one-half to J. L. Davis, Wharton County, Tex. Corn and cotton scraper	352,107	Nov. 9	561	149	37	571
Adams, William H., J. D. Felthousen, and A. Lawtenslager, Albany, N. Y. Car-coupling	339,358	Apr. 6	348	85	35	65
Adams, William I., and A. A. Hasson, assignors to A. & H. Flexible Flooring Company, Baltimore, Md. Flexible flooring	337,292	Mar. 2	555	146	34	1028
Adams, William T., Baltimore, Md. Ash-sifter	346,340	July 27	2188	561	36	418
Adamson, J. Arthur, Philadelphia, Pa. Suspenders	335,411	Feb. 2	455	118	34	522
Adamson, Robert, Auburn, N. Y. Safety-switch	338,012	Mar. 16	1533	398	34	1214
Addax Basting Machine Company. (See Duchemin, William, assignor.)						
Addis, Benjamin E., *et al.* (See Edrington, Thomas W., assignor.)						
Addison, John R. (See Knight, George W., assignor.)						
Addoms, Phebe R., Brooklyn, N. Y. Ventilator	342,989	June 1	293	76	35	1060
Addy, Charles J., Malden, Mass., assignor to Tapley Machine Company, Portland, Me. Burnishing-machine	341,305	May 4	476	129	35	591
Adee & Co., Fred. (See Adee and Smith, assignors.)	339,511	Apr. 6	575	138	35	106
Adee & Co., Fred. (See Smith, Benjamin C., assignor.)						
Adee, Fred, and B. C. Smith, Brooklyn, assignors to F. Adee & Co., New York, N. Y. Stop-cock box	343,416	June 8	957	239	35	1188
Adelsperger, Charles C., Arcanum, Ohio. Shifting seat for carriages	340,970	May 4	1	1	35	505
Aderhold, Alexander J., Birmingham, Ala. Feed-water regulator	341,203	May 4	319	90	35	564
Adgate, Joseph J., New York, N. Y. Wardrobe-bed	340,072	Apr. 20	1394	351	35	261
Adler, Abraham S., Baltimore, Md. Shoe-maker's measure	337,039	Mar. 2	212	56	34	964
Adler, Abraham S., Baltimore, Md. Apparatus for grading and cutting soles	341,204	May 4	320	90, 91	35	564
Adler, Adolph C. O., Brooklyn, N. Y. Bracket-lamp	334,631	Jan. 19	1613	429	34	312
Adler, Georg, Buchholz, Saxony, Germany. Folding box	347,761	Aug. 24	1821	485	36	825
Adler, Jacob, Cologne, Germany. Combined belt and suspender	340,185	Apr. 20	1562	394	35	291
Adler, Joseph, Leipsic, Saxony, Germany. Compass attachment for maps	336,883	Mar. 2	1	1	34	927
Adlung, Reinhold, Pankow, Germany. Pneumatic pump	349,777	Sept. 28	1715	442	36	1388
Adt, John B. (See Kaiser and Adt.)						
Advertising Alarm Sign Company. (See Newman, Nelson, assignor.)						
Aebi, Johann U., and J. Mühlethaler, Burgdorf, Berne, Switzerland. Machine for hulling and grinding corn	349,418	Sept. 21	1209	313, 314	36	1285
Aenis, John, Cleveland, Ohio. Oil-stove	340,653	Apr. 27	2231	585	35	418
Ætna Stopper Company. (See Johnson and Thatcher, assignors.)						
Ætna Stopper Company. (See Thatcher, Frederick B., assignor.)						
Agar, Alexander, Brooklyn, N. Y. Copy-book	335,103	Feb. 2	4	2	34	441
Agee, George S., Louisville, Kans. Corn-planter	339,124	Apr. 6	1	1	35	3
Agnew, Marion W., New York, N. Y. Under-garment	348,181	Aug. 31	2439	654, 655	36	945
Ahlgrim, Max J., Rose Lawn, Ind. Calf-weaner	353,411	Nov. 30	2362	629	37	932
Ahrens, George, Crete, Ill. Plastering-strip	347,080	Aug. 10	841	223	36	628
Ahrens, George, Crete, assignor of one-half to H. Scherer, Chicago, Ill. Plastering-strip	349,331	Sept. 21	1068	274	36	1258
Ahsendorff, Louis. (See Wahler, Henry, assignor.)						
Aiken, Henry. (See Kennedy and Aiken.)						
Aiken, Henry, Pittsburg, Pa. Hydraulic crane	343,417	June 8	958	239	35	1188
Aiken, Henry, Pittsburg, Pa. Machine for rolling eye-bars	349,419	Sept. 21	1210	314, 315	36	1285
Aiken, John H., *et al.* (See Laughton, Joseph B., assignor.)						
Aiken, Walter, Franklin Falls, N. H. Welt-guide for sewing-machines	334,404	Jan. 19	1297	351	34	255
Aikman Automatic Car Coupler Company. (See Aikman, Peter A., assignor.)						
Aikman Automatic Car Coupler Company. (See Booth, Joseph, assignor.)						
Aikman, Peter A., Windsor, Ontario, Canada, assignor to Aikman Automatic Car Coupler Company, Detroit, Mich. Car-coupling	343,528	June 8	1106	278	35	1215
Ailion, Isaac A., Hiogo, Japan, assignor to R. Isaacs & Bro., New York, N. Y. Fan	342,555	May 25	2213	588	35	939
Aimond, Emile, Paris, France. Automatic siphon	354,591	Dec. 21	1380	365	37	1271
Ainsworth, Eleazer. (See Brink, Chester W., assignor.)						
Ainsworth, Perley, Charlotte, N. Y. Rotary engine	341,395	May 4	596	163, 164	35	613
Ainsworth, Seymour. (See Clapp and Ainsworth.)						
Ainsworth, Seymour, Saratoga Springs, N. Y. Toboggan	339,512	Apr. 6	577	138	35	106
Ainsworth, William H., Wilmington, Del. Casing for pipes	340,073	Apr. 20	1395	354	35	261
Airhart, J. T., *et al.* (See Mitchell, William A., assignor.)						
Aitken, Henry, Darroch, Falkirk, county of Stirling, Scotland. Preserving timber	352,216	Nov. 9	727	.....	37	599
Aitken, John W. (See Schastey, Otto L., assignor.)						
Aitken, Robert W., assignor of one-half to Pitts Agricultural Works, Buffalo, N. Y. Steam-boiler	344,071	June 22	1866	479	35	1367
Aitken, Thomas D., Bradford, Ill. Stirrup for sulkies	337,357	Mar. 9	639	169	34	1051
Aitken, Thomas D., Bradford, Ill. Stirrup for sulkies	342,772	June 1	1	1	35	1007
Aker, Joseph M. (See Costello and Aker.)						
Akeroyd, Abraham. (See Burns, Akeroyd, and Fowler.)						
Akers, John M. (See Slaybaugh and Akers.)						
Akins, Thomas, Camden, N. J. Edge-trimmer for walks and beds	339,359	Apr. 6	350	85	35	65
Aktiebolaget Separator Company. (See Johansson, Carl A., assignor.)						
Alabaster, Henry, and T. E. Gatehouse, London, England. Telephone-transmitter	335,791	Feb. 9	1000	265	34	626
Alapaw, Charles H., assignor of one-half to J. G. Brinkmeyer, St. Louis, Mo. Wrench	341,986	May 18	1391	371, 372	35	782
Albach, William H. (See Barr, Samuel W., assignor.)						
Albaugh, George W., and W. H. Gibbs, South Bend, Ind. Milk and cream can	340,409	Apr. 20	1877	482	35	350
Albee, Edson P. (See Albee, Truman C., assignor.)						
Albee, George E., assignor to Winchester Repeating Arms Company, New Haven, Conn. Magazine fire-arm	354,371	Dec. 14	1058	283	37	1207
Albee, Harry C., Detroit, Mich. Manufacture of broom-handles	347,981	Aug. 24	2144	571	36	884
Albee, Harry C., Detroit, Mich. Machine for finishing broom-handles	348,878	Sept. 7	456	121	36	1131
Albee, Honestus M., Newark, N. J. Wood-working machine	354,997	Dec. 28	1952	515	37	1390
Albee, Truman C., Chicago, assignor to himself and E. P. Albee, Lombard, Ill. Windmill	349,197	Sept. 14	905	232	36	1217
Alberger, John L. (See Williams and Alberger.)						
Alberger, Louis R. (See Williams and Alberger.)						
Albers, Bernhard, Conception, Mo. Brick-burner	339,963	Apr. 13	1236	308	35	227

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Albert, Charles, Cincinnati, Ohio. Parallel dividers	341,714	May 11	1035	274	35	708
Albert, Charles F., Philadelphia, Pa. Mute for stringed instruments	335,872	Feb. 9	1105	293	34	647
Albert, Charles F., Philadelphia, Pa. String-gage	337,224	Mar. 2	453	118	34	1010
Albert, Henry, Crescent City, Cal. Elevator	333,713	Jan. 5	305	83, 84	34	57
Albert, Henry, Crescent City, Cal. Elevator	355,114	Dec. 28	2119	557, 558	37	1422
Albert Nail Company. (See Lovell, Clinton, assignor.)						
Albert Nail Company. (See Parkhurst and Lovell, assignors.)						
Albertson, William K., Shelby, Ohio. Gate	354,081	Dec. 14	625	171	37	1129
Albrecht, Charles H. (See Dalton, Clarence L., assignor.)						
Albrecht, George W. (See Hall, Chauncey M., assignor.)						
Albrecht, John C., Columbus, Ga. Spark-arrester	342,556	May 25	2214	588, 589	35	940
Albright, Chester E., Muncy, Pa. Road-wagon	346,341	July 27	2189	562	36	419
Albright, Chester E., Muncy, Pa. Vehicle-spring reliever	346,342	July 27	2191	562	36	419
Albright, Samuel, assignor to W. Albright, Nevada, Mo. Windmill	338,816	Mar 30	2646	697, 698	34	1429
Albright, William. (See Albright, Samuel, assignor.)						
Alcott, Edward H., assignor to himself and E. B. Preston, Chicago, Ill. Shoe-buckle	353,912	Dec. 7	380	101	37	1076
Alden, Charles E., Philadelphia, Pa. Drive-chain	336,779	Feb. 23	2413	634	34	891
Alden, Charles S., Rochester, N. Y. Combined cigar-cutter and match-box	334,405	Jan. 19	1298	351	34	255
Alden, Horace A., assignor to Acme Hay Harvester Company, Peoria, Ill. Horse hay-rake	338,460	Mar. 23	2141	560	34	1334
Alden, Samuel R. (See Pisano, Martin, assignor.)						
Alden Type Machine Company. (See Johnson, Louis K., assignor.)						
Alden Type Machine Company. (See Johnson and Low, assignors.)						
Alderman, Elbert E., Portville, N. Y. Protector for wash-boards	350,283	Oct. 5	249	72	37	52
Aldom, Edward. (See Schmitz and Aldom.)						
Aldrich, Elbert. (See Holt and Aldrich.)						
Aldrich, Elbert, New York, N. Y. Tile	345,942	July 20	1639	422	36	307
Aldrich, La Fayette, Milwaukee, Wis. Steam-pipe and boiler covering	340,691	Apr. 27	2282	601	35	427
Aldrich, Wales, Dayton, Ohio. Cash-register	342,059	May 18	1492	398, 399, 400	35	801
Aldrich, William H., Whitinsville, Mass. Bed-rest	335,412	Feb. 2	456	118	34	523
Aletter, Henry, *et al.* (See Young, William A., assignor.)						
Alexander, Andrew J., Mayfield, Ky. Remedy for hog and chicken cholera	338,013	Mar. 16	1535	.....	34	1214
Alexander, Charles F., assignor of three-fourths to S. B., B. W., and M. Fleisher, Philadelphia, Pa. Stop-motion for twisters, &c	342,990	June 1	294	76	35	1060
Alexander, Charles F., assignor of three-fourths to S. B., B. W., and M. Fleisher, Philadelphia, Pa. Bobbin-holder for winding-machines	345,943	July 20	1640	422	36	307
Alexander, F. B. (See Huffman, Jefferson M., assignor.)						
Alexander, Jabez, Manchester, N. H. Veterinary file	354,616	Dec. 21	1423	377	37	1278
Alexander, James H. (See Finnegan and Alexander.)						
Alexander, James H. (See Ohlwine and Alexander.)						
Alexander, John R. (See Bissell, Simeon, assignor.)						
Alexander, John R., Pittsburg, Pa. Locomotive-furnace	352,217	Nov. 9	728	195	37	599
Alexander, Joseph V., Taylor's Chapel, Tenn. Fifth-wheel	343,788	June 15	1481	372	35	1289
Alexander, Julius A., Monticello, Ark. Car-coupling	338,014	Mar 16	1535	398	34	1214
Alexander, Robert, assignor of one-half to L. W. Sinsabaugh and Barber Asphalt Paving Company, Washington, D. C. Compound for insulating telegraph-wires, &c	351,611	Oct. 26	2196	.....	37	420
Alexander, Samuel G., Detroit, Mich. Felt boot	345,471	July 13	938	236	36	174
Alexander, Samuel G., Detroit, Mich., assignor to Merino Shoe Company, Kennebunk, Me. Felt boot	336,542	Feb. 23	2082	547	34	831
Alexander, Thomas S., Meriden, Conn. Harness-terret	350,712	Oct. 12	865	233	37	165
Alford, Benjamin C. (See Wehmeyer and Alford.)						
Algeo, Charles C., Philadelphia, Pa. Inkstand	343,686	June 15	1339	334	35	1263
Algie, Benjamin C., Ogdensburg, N. Y. Store-service apparatus	342,557	May 25	2216	589	35	940
Alkins, Charles, Chicago, Ill. Manufacture of rail-braces	352,286	Nov. 9	818	219	37	616
Allaben, Orson M., Margaretville, N. Y. Fence-post	337,646	Mar. 9	1036	266	34	1119
Allan, James, New York, N. Y. Sliding-door hanger	352,906	Nov. 23	1634	439	37	789
Allbright, William B., Boston, Mass. Bleaching animal fats and oils	345,872	July 20	1539	.....	36	288
Alldridge, Arthur H., assignor of one-half to S. J. Davis, Birmingham, county of Warwick, England. Velocipede	336,372	Feb. 16	1852	486	34	783
Allegretti, Ignazio, West Berkley, Cal. Movable ice-chamber	349,831	Sept. 28	1789	462	36	1404
Allen, Albert H. (See O'Connor, Jeremiah J. and J. A., assignors.)						
Allen, Alonzo W. (See Culp and Allen.)						
Allen, Alton A., Fall River, Mass. Check-hook attachment for harness	351,951	Nov. 2	323	89	37	518
Allen, Arland, Red Wing, Minn. Extensible cane, &c	341,715	May 11	1037	275	35	709
Allen, Benjamin F., Plainfield, N. J. Microscope	352,639	Nov. 16	1271	342, 343	37	710
Allen, Benjamin J., Newark, N. J. Coke-breaker	353,011	Nov. 23	1782	479	37	816
Allen Brothers. (See Cole, Hiram, assignor.)						
Allen, Chancellor C. (See Crockett and Allen.)						
Allen, Charles. (See Rohrbach, Henry J., assignor.)						
Allen, Charles S. (See Gaunt and Allen.)						
Allen, Cotton H., St. Louis, Mo. Hame	333,988	Jan. 12	677	185	34	135
Allen, Cotton H., St. Louis, Mo. Stirrup	342,162	May 18	1633	437	35	828
Allen, Daniel J., Lisbonville, Mo. Washing-machine	341,306	May 4	477	129	35	501
Allen, David H., Miamisburg, Ohio. Carriage-top	345,472	July 13	939	237	36	174
Allen, Eben S. (See Hofele, Ferdinand W., assignor.) (Reissue.)						
Allen, Edward B., Portland, Me., assignor to J. W. Brooks, trustee, Cambridge, Mass. Heel-loading machine	348,091	Aug. 24	2297	615, 616	36	913
Allen, Edward B., Portland, Me., assignor to J. W. Brooks, trustee, Cambridge, Mass. Heel-loading machine	348,092	Aug. 24	2301	616, 617	36	914
Allen, Edward C., Augusta, Me. Portfolio	351,558	Oct. 26	2106	546	37	404
Allen, Edward E. (See Nichols, Benjamin F., assignor.)						
Allen, Edward M., assignor to S. E. Allen, Stafford, Md. Wagon-brake	346,698	Aug. 3	312	86	36	522
Allen, Enoch, Harden, near Walsall, assignor to B. Cope, Bloxwich, near Walsall, county of Stafford, England. Safety-stirrup	341,987	May 18	1392	372	35	782
Allen, Erasmus W., Seneca, Kans. Washing apparatus	335,413	Feb. 2	456	118	34	523
Allen, Erastus W., Auburn, N. Y. Mop washing and wringing machine	348,609	Sept. 7	108	31	36	1067
Allen, Ethan. (See Butler, Jeremiah C., assignor.)						
Allen, Ethan, and W. H. Harrod, Sellersburg, Ind. Mail-bag catcher	334,921	Jan. 26	1988	529	34	390
Allen, Frank, and F. A. Grater, assignors to American Ship Windlass Company, Providence, R. I. Capstan	351,241	Oct. 19	1621	426	37	310

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Allen, George, assignor of one-half to J. C. Sibley, Franklin, Pa. Sucker-rod	348,944	Sept. 14	555	147	36	1155
Allen, George H., *et al.* (See Barton, Richard T., assignor.)						
Allen, George H., Ayer, assignor to G. Draper & Sons, Hopedale, Mass. Spindle-bearing	348,651	Sept. 7	162	45	36	1077
Allen, George L., Worcester, Mass. Steam-generator	341,716	May 11	1038	275	35	709
Allen, Harriet B., St. Louis, Mo. Pan for washing dishes	340,027	Apr. 13	1331	332	35	243
Allen, Hiram, and L. S. Mason, Sandy Hill, N. Y.; said Allen assignor to said Mason. Felt-cleaning device for paper-making machines	346,013	July 20	1742	448	36	325
Allen, Horace R. (See Tenant, Hanson P., assignor.)						
Allen, James M., St. Louis, Mo. Capodastro for guitars	339,513	Apr. 6	578	138	35	106
Allen, John, London, county of Middlesex, England. Carriage-spring	336,464	Feb. 16	1980	519	34	806
Allen, John F. and J. H., New York, N. Y. Sectional boiler	347,859	Aug. 24	1959	520	36	852
Allen, John H. (See Allen, John F. and J. H.)						
Allen, John M., New Bedford, Mass. Manufacture of paper from bark	342,991	June 1	296	.....	35	1060
Allen, John W., Milwaukee, Wis. Spoke-polishing machine	339,125	Apr. 6	2	1, 2	35	3
Allen, Joseph, Palmyra, N. Y. Combined bag and twine holder	353,435	Nov. 30	2395	639	37	939
Allen, Joseph B., and H. W. Tichenor; said Allen assignor to W. H. Day, Irvington, N. J. Bracket for use in shingling roofs	352,507	Nov. 16	1093	295	37	679
Allen, Louisia A. (See McCoy, Oscar, assignor.)						
Allen, Marshall J., New York, N. Y., and W. E. Bradley, Frankfort, Ky., assignors to Frankfort Whisky Process Company. Making whisky	335,267	Feb. 2	258	68	34	486
Allen, Matt. F., Nashville, Tenn. Wagon-box brace	340,751	Apr. 27	2366	623	35	442
Allen, Richard N., Cleveland, Ohio. Motor-car	337,109	Mar. 2	302	79	34	982
Allen, Richard N., Cleveland, Ohio. Car-wheel	351,481	Oct. 26	2001	520	37	384
Allen, Robert T. P., Farmdale, Ky. Car-starter	351,559	Oct. 26	2107	546	37	405
Allen, Rufus K., *et al.* (See Barker, Henry C., assignor.)						
Allen, S. Fletcher. (See Horton, Cornelius N., assignor.)						
Allen, Sallie E. (See Allen, Edward M., assignor.)						
Allen, Sam H. (See Hawkins and Allen.)						
Allen, Samuel L., Cinnaminson, N. J. Cultivator	334,327	Jan. 12	1189	319	34	229
Allen, Samuel L., Cinnaminson, N. J. Countersunk hole in metal articles	350,908	Oct. 19	1145	305	37	223
Allen, Sidney E., Winston, N. C. Seal-lock	349,871	Sept. 28	1838	475	36	1414
Allen Spool and Printing Company. (See Morrison, J. Henry, assignor.)						
Allen, Stephen M., Duxbury, Mass. Composition of matter for making molded articles	337,472	Mar. 9	825	.....	34	1081
Allen, Thomas, Bristol, county of Bristol, England. Bedstead	347,912	Aug. 24	2041	539, 540, 541, 542	36	865
Allen, Thomas L., East Windham, Me. Fertilizer-distributer	336,373	Feb. 16	1854	486	34	784
Allen, Thomas L., East Windham, Me. Fertilizer-distributer. (Reissue)	10,771	Oct. 19	1766	464	37	336
Allen, William H., Windham Centre, Me. Bob-sleigh	343,156	June 8	559	141	35	1117
Allen, William H., Conway, N. H. Machine for cutting spool-blanks	344,931	July 6	187	48	36	35
Allen, William O. (See Ligon, William A., assignor.)						
Allen, William P., Wyoming, Ohio. Feed-regulator for grinding-mills	341,439	May 11	655	177	35	633
Allen, William P., Wyoming, assignor to Little Giant Power Converter Company, Cincinnati, Ohio. Device for converting motion	351,560	Oct. 26	2109	547	37	405
Allender, Henry, and A. T. Harrison, assignors to Combination Gas Machine Company, Detroit, Mich. Laboratory-burner	350,796	Oct. 12	990	265	37	187
Alexander, Clifford J., *et al.* (See Wilmont, Edwin, assignor.)						
Alexander, William S., *et al.* (See Wilmont, Edwin, assignor.)						
Allfree, James B., Cumberland, Md. Roller grinding-mill	354,031	Dec. 7	554	151	37	1107
Allfree, James B., assignor of one-half to H. Swartzwelder and R. Shriver, Cumberland, Md. Grinding-mill	336,979	Mar. 2	127	34	34	949
Allfree, James B., assignor of one-half to R. Shriver and H. Swartzwelder, Cumberland, Md. Rolls for grinding-mills	342,163	May 18	1634	437	35	828
Allfree, James B., assignor of one-half to R. Shriver and H. Swartzwelder, Cumberland, Md. Roller grinding-mill	342,671	May 25	2375	628	35	969
Allfree, James B., assignor of one-half to R. Shriver and H. Swartzwelder, Cumberland, Md. Journal-box	351,015	Oct. 19	1320	347	37	254
Allgire, James R., Indianapolis, Ind. Barrel-head	338,379	Mar. 23	2034	534	34	1314
Allgire, James R., assignor of two-thirds to G. F. Adams and M. D. Williamson, Indianapolis, Ind. Machine for the manufacture of veneer barrels	341,866	May 18	1238	331, 332	35	755
Allgire, James R., assignor of two-thirds to G. F. Adams and M. D. Williamson, Indianapolis, Ind. Manufacturing veneer barrels	342,672	May 25	2378	629	35	970
Allgire, James R., assignor of two-thirds to G. F. Adams and M. D. Williamson, Indianapolis, Ind. Barrel	347,860	Aug. 24	1960	520	36	852
Allhands, Martin M. (See Brightwell, Amazon W., assignor.)						
Allington, David K., East Saginaw, Mich. Band-saw mill	337,647	Mar. 9	1037	266	34	1119
Allington, David K., East Saginaw, Mich. Convolute log-planing machine	337,648	Mar. 9	1039	267	34	1120
Allington, David K., East Saginaw, Mich. Band-saw machine	337,912	Mar. 16	1379	358, 359	34	1187
Allington, David K., East Saginaw, Mich. Band-saw mill	337,913	Mar. 16	1381	359	34	1188
Allinson, Robert T., Solomon's Island, Md. Oyster-tongs	337,358	Mar. 9	639	169	34	1051
Allis & Co., E. P. (See Gray, William D., assignor.)						
Allis & Co., Edward P. (See Hinkley, George M., assignor.)						
Allis & Co., Edward P. (See Peck, Theron W., assignor.)						
Allis, Edward P. (See Birkholz, Richard, assignor.)						
Allis, Edward P. (See Robinson, George W., assignor.)						
Allison, Arza J. (See Cox and Allison.)						
Allison, Asa H., assignor of one-half to J. I. Irwin, near Columbus, Ind. Fence-machine	349,294	Sept. 21	1027	263	36	1251
Allison, Elmer E., Hillside, Pa. Washing-machine	340,272	Apr. 20	1691	431	35	314
Allison, John M., Columbus, and C. P. Bowden, Johnstown, Mo. Corn-planter	345,757	July 20	1380	359	36	261
Allman, Christian, *et al.* (See De Voe, Louis F., assignor.)						
Allstatter, Robert, assignor to Long & Allstatter Company, Hamilton, Ohio. Punching device	334,554	Jan. 19	1507	403	34	292
Allton, Hiram, assignor of one-half to J. E. Hildreth, Wilmington, Del. Lubricator	352,026	Nov. 2	429	116, 117	37	538
Allyn, George S., *et al.* (See Kneedler, Lewes, assignor.)						
Allyn, William M., assignor to himself and C. Espenchied, Hastings, Minn. Wooden barrel	337,110	Mar. 2	303	80	34	982
Almond, Thomas R., New York, N. Y. Reamer	351,482	Oct. 26	2003	520	37	384
Almorth, Gustaf, Elgin, Ill., assignor of one-tenth to V. Bertsch, Boston, Mass. Protractor	346,836	Aug. 3	477	132	36	554
Almy, Ferdinand B., Salem, Mass. Blind-stitching attachment for sewing-machines	343,418	June 8	959	239	35	1189
Almy, George F., Delphos, Ohio. Car-coupling	349,968	Sept. 28	1964	507, 508	36	1438
Aloe, Albert S., St. Louis, Mo. Fracture apparatus	340,971	May 4	2	1	35	505
Alshouse, Henry W., Custer, Ind. Harrow	354,963	Dec. 28	1907	503	37	1383
Alshuler, Moses, Mattoon, Ill. Tag	341,205	May 4	320	91	35	564

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Alsing Company, J. R. (See Alsing, Johan R., assignor.)						
Alsing, Johan R., New York, N. Y., assignor to J. R. Alsing Company. Triturating-cylinder	353,279	Nov. 30	2169	581	37	897
Alsip, William, Momence, assignor to Tiffany Pressed Brick Company, Chicago, Ill. Brick-kiln	340,186	Apr. 20	1563	395	35	291
Alsop, Charles R., Syracuse, N. Y. Hot-air furnace	345,564	July 13	1087	280	36	203
Alston, Mathew, Adrian, Ill. Adjustable bail and cover-holder for jars	334,922	Jan. 26	198-9	530	34	390
Alston, Samuel W., assignor to J. Lanham, Philadelphia, Pa. Grate	351,342	Oct. 19	1622	426	37	310
Althause, Frederick D., New York, N. Y. Sectional steam-generator	354,172	Dec. 14	771	207	37	1154
Althouse, George B., Harrisburg, Pa. Wagon-brake	342,241	May 18	1731	460	35	846
Althouse, Nathan S. (See Christman, Augustus G., assignor.)						
Altick, James O., assignor of one-half to D. Weaver, Dayton, Ohio. Elliptic spring	348,710	Sept. 7	214	65	36	1092
Altick, James O., assignor of one-half to D. Weaver, Dayton, Ohio. Thill-coupling	350,611	Oct. 12	722	196	37	139
Altmaier, Peter A., Harrisburg, Pa. Magazine fire-arm	334,731	Jan. 26	1749	467	34	345
Altmaier, Peter A., Harrisburg, Pa. Magazine-gun	343,883	June 15	1597	407	35	1311
Altmeyer, Jacob, Benwood, W. Va. Cut-nail machine	351,304	Oct. 19	1708	448, 449	37	325
Altmiller, August B., East Cambridge, Mass. Portable oven for gas and other stoves	343,419	June 8	960	240	35	1189
Altschwager, John C., London, assignor of one-half to E. A. Marsh, La Crosse, Wis. End-gate hinge	341,307	May 4	478	129	35	592
Alvord, Elisha H., Seattle, Wash. Ter. Sash-fastener	349,295	Sept. 21	1028	263	36	1251
Alvord, Williston I., Bridgeport, Conn. Knob attachment	347,411	Aug. 17	1305	348	36	722
Alvord, Williston I., Bridgeport, Conn. Knob attachment	347,412	Aug. 17	1306	348	36	722
Alvord, Williston I., Bridgeport, Conn. Knob attachment	347,413	Aug. 17	1307	349	36	722
Alvord, Williston I., Bridgeport, Conn. Lock and latch	347,414	Aug. 17	1308	349	36	722
Alvord, Williston I., Bridgeport, Conn. Padlock	353,012	Nov. 23	1783	480	37	816
Amann, Charles H., Columbus, Ohio. Stove	346,631	Aug. 3	233	64	36	505
Amberg, Gustav. (See Zschiegner, Friedrich, assignor.)						
Ambler, Augustin I., Chicago, Ill. Vapor-fuel apparatus	338,461	Mar. 23	2142	560, 561	34	1335
Ambler, Augustin I., Washington, D. C. Vapor-fuel apparatus	341,308	May 4	480	129, 130, 131	35	592
Ambrose, John, and G. J. Atkins, Youngstown, Ohio. Horse-collar	340,187	Apr. 20	1565	396	35	292
American Animal Tether Company. (See Aspinwall, D. La Mont, assignor.)						
American Automatic Fire Alarm Association. (See Stone, Lawson B., assignor.)						
American Automatic Fire Alarm Association. (See Wheeler, Alden D., assignor.)						
American Axle and Wheel Company. (See Harris, J. Nelson, assignor.)						
American Bell Telephone Company. (See Gilliland, Ezra T., assignor.)						
American Bell Telephone Company. (See Keller and Lyon, assignors.)						
American Bell Telephone Company. (See Mason, Howell R., assignor.)						
American Bell Telephone Company. (See Roberts, George L., assignor.)						
American Bell Telephone Company. (See Temple, Edwin B., assignor.)						
American Bell Telephone Company. (See Thornberry, Henry S., assignor.)						
American Bell Telephone Company. (See Watson, Thomas A., assignor.)						
American Bell Telephone Company. (See Wilson, George W., assignor.)						
American Brake Company. (See Higham, Charles C., assignor.)						
American Brake Company. (See Poor, George H., assignor.)						
American Brake Company. (See Wahlert, Henry A., assignor.)						
American Button Fastener Company. (See Kempshall, Eleazer, assignor.)						
American Button Fastener Company. (See Merrill, Oliver H., assignor.)						
American Button Fastener Company. (See Richards, Francis H., assignor.)						
American Buttonhole, Overseaming and Sewing Machine Company. (See Moore, Arthur L., assignor.)						
American Buttonhole, Overseaming and Sewing Machine Company. (See Reese, Evan C., assignor.)						
American Crystal Light Company. (See Schoenberg, Isidor, assignor.)						
American Electric Arms and Ammunition Company. (See Russell, Samuel, assignor.)						
American Electric Headlight Company. (See Lynn, Mirabeau N., assignor.)						
American Electric Head Light Company. (See Pyle, George C., assignor.)						
American Endolithic Company. (See Coleman, Caryl, assignor.)						
American Fire Hose Manufacturing Company. (See Sibley, Edwin E., assignor.)						
American Gas Pressure Regulator Company. (See Beatty, Samuel A., assignor.)						
American Globe and School Supply Company. (See Cheney, Flavius, assignor.)						
American Magnetic Electric Company, *et al.* (See Humans, William, assignor.)						
American Manufacturing Company. (See Leopold, Charles F., assignor.)						
American Marble Cutting Company. (See Maloy, James W., assignor.)						
American Oil Stove Company. (See Wilder, William H., assignor.)						
American Press Association. (See Cummings, John R., assignor.)						
American Press Association. (See Horgan, Stephen H., assignor.)						
American Pulverizer Company. (See Fuller and Hayes, assignors.)						
American Railway Signal Company of Illinois. (See Gibson, J. Harper, assignor.)						
American Road Machine Company. (See Pennock, Samuel, assignor.)						
American Road Machine Company. (See Sharp and Pennock, assignors.)						
American Saw Company. (See Risdon, William B., assignor.)						
American Screw Company. (See Harvey and Clark, assignors.)						
American Screw Company. (See Olsen, Olaf R., assignor.)						
American Ship-Windlass Company. (See Allen and Grater, assignors.)						
American Ship-Windlass Company. (See Grater, Whitney, and Manton, assignors.)						
American Ship-Windlass Company. (See Whitney, Edwin H., assignor.)						
American Spindle Company. (See Field, Millard F., assignor.)						
American Sulphite Pulp Company. (See Russell, George W., assignor.)						
American Sulphite Pulp Company. (See Springer, Charles C., assignor.)						
American Tack Company. (See Paull, Elbridge G., assignor.)						
American Telephone and Telegraph Company. (See Barrett, John A., assignor.)						
American Water Bar Grate Company. (See Swallow, Isaac W., assignor.) (Reissue.)						
American Writing Machine Company. (See Lake, Vincent F., assignor.)						
American Writing Machine Company. (See Yost, George W. N., assignor.)						
American Zylonite Company. (See Gates and Sargent, assignors.)						
American Zylonite Company. (See Edson, Jarvis B., assignor.)						
American Zylonite Company. (See Jarvis, John G., assignor.)						
American Zylonite Company. (See Mowbray, George M., assignor.)						
Amerland, Henry, Fargo, Dak. Ter. Measuring-pump	352,671	Nov. 16	1319	355	37	719
Ames, Albert C., assignor of one-half to J. H. Shepard, Chicago, Ill. Fifth-wheel for vehicles	351,016	Oct. 19	1322	347	37	255

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ames, Albert C., assignor to J. H. Shepard, Chicago, Ill. Dumping-wagon	351,017	Oct. 19	1323	347	37	255
Ames, Charles H., and M. Harris, Jamestown, N. Y. Sash-balance	338,817	Mar. 30	2649	698	34	1429
Ames, Charles L., *et al.* (See Briggs, Orlando P., assignor.)						
Ames, Charles L., Ridgeland, Ill. Bed-bottom	333,809	Jan. 5	427	116	34	80
Ames, Charles L., Ridgeland, Ill. Bed-bottom	336,616	Feb. 23	2191	572	34	848
Ames, Charles S., Bishop, Ill. Leather-rolling machine	342,946	June 1	247	63	35	1051
Ames, Charles S., Bishop, Ill. Channeling-machine	345,873	July 20	1540	398	36	288
Ames, David J., Owatonna, Minn. Cotton-seed reducing and separating machine	352,285	Nov. 9	815	218, 219	37	615
Ames, Edward R., *et al.* See Ames, Joseph R. and S. K., assignors.)						
Ames & Frost. (See Briggs, Orlando P., assignor.)						
Ames Iron Works. (See Tostenson, Christian, assignor.)						
Ames, Irvin W., Bethel, Me. Spring bed-bottom	335,873	Feb. 9	1106	293	34	647
Ames, John, Jr. (See Bonner, Joseph C., assignor.)						
Ames, John, Jr., assignor of one-half to J. C. Bonner, Toledo, Ohio. Brush	349,296	Sept. 21	1029	263	36	1251
Ames, Joseph R. and S. K., assignors of one-half to B. F. Wise and E. R. Ames, Ansonville, Pa. Lock	354,526	Dec. 21	1277	341	37	1253
Ames, Oliver. (See Clark, John H., assignor.)						
Ames Plow Company. (See Rich, Pembroke S., assignor.)						
Ames, Rufus, Fort Wayne, Ind. Lubricator	339,251	Apr. 6	200	51	35	37
Ames, Stephen K. (See Ames, Joseph R. and S. K.)						
Ames, Warren W., De Ruyter, N. Y. Pillow-sham holder	348,812	Sept. 7	365	99	36	1115
Ames, William L., Terre Haute, Ind. Cork-extractor	345,822	July 20	1471	380	36	277
Amet, Edward H., assignor to himself and H. A. Streeter, Chicago, Ill. Electric-current indicator	340,538	Apr. 27	2064	533	35	391
Amet, Edward H., assignor to H. A. Streeter, Chicago, Ill. Brush-shifter for dynamo-electric machines	340,539	Apr. 27	2066	533	35	391
Amet, Edward H., assignor to H. A. Streeter, Chicago, Ill. Electric steam-governor	341,368	May 4	555	154	35	605
Amick, Myron J., Portland, Oreg. Gas-regulator	333,584	Jan. 5	118	32	34	25
Amidon, Charles H., Buffalo, N. Y. Machine for applying heads to bit-braces	348,182	Aug. 31	2440	655	36	945
Ammenheuser, Hermann, Albany, N. Y. Machine for molding flower-pots	334,406	Jan. 19	1299	351, 352	34	255
Ammon, Jacob S. (See Guss, Samuel M., assignor.)						
Ammon, James W., East Lynn, Mo., assignor of two-thirds to G. W. Farrow and G. W. Swinehart. Hame attachment	337,649	Mar. 9	1041	267	34	1120
Ammon, John. (See Bessier, Vetal, assignor.)						
Amodeo-Salvator, Emmanuel, U. S. Navy. Cartridge	350,096	Oct. 5	2	1	37	3
Amodeo-Salvator, Emmanuel, U. S. Navy. Cartridge-box	350,097	Oct. 5	2	1	37	3
Amodeo-Salvator, Emmanuel, U. S. Navy. Magazine-gun	350,098	Oct. 5	3	1, 2	37	3
Amon, George M., Brooklyn, and F. X. Berger, New York, N. Y. Ash-sifter	345,823	July 20	1472	380	36	277
Amon, Lawrence, Louisville, Ky. Safety attachment for scaffolds	354,880	Dec. 28	1791	473	37	1361
Amon, Nathaniel, Sandy Lake, Pa. Weather-strip	335,874	Feb. 9	1108	293	34	647
Amos, Alexander M., Buffalo, N. Y. Automatic railway-signal	344,024	June 22	1792	462	35	1354
Amos, Alexander M., Buffalo, N. Y. Steam coffee-pot	353,260	Nov. 30	2170	581	37	897
Amos, Mark, and J. Hunt, Westbury-on-Trym, county of Gloucester, England. Storing ensilage	346,699	Aug. 3	313	86	36	522
Amos, William H., assignor of one-half to L. R. Frank, Akron, Ohio. Rubber shoe	351,305	Oct. 19	1710	449	37	325
Amouroux, Elie, assignor to A. La Roche and A. J. Champion, Paris, France. Feed-water alarm for steam-boilers	338,015	Mar. 16	1536	399	34	1215
Ancira, José, Monterey, Mexico. Centrifugal pump	342,723	May 25	2462	652	35	985
Anderfuren, William J., assignor of one-half to J. Eva, San Francisco, Cal. Portable house	345,944	July 20	1640	422	36	307
Anders, David B., Philadelphia, Pa. Cable-railway grip	351,036	Oct. 19	1348	354	37	259
Andersen, Christian, New York, N. Y., and A. Woolner, Jr., Peoria, Ill. Preparing whole grain for fermentation	338,579	Mar. 23	2294	601	34	1360
Anderson, A., *et al.* (See Anderson, Clark, assignor.)						
Anderson, Alexander, Boston, Mass. Portable window-crane	337,225	Mar. 2	454	118	34	1010
Anderson, Alexander, Toronto, Ontario, Canada. Non-interfering street-box for fire-alarm telegraph systems	354,761	Dec. 21	1630	431, 432	37	1318
Anderson, Alexander, and R. Rutherford, Brush Creek, Iowa. Two-horse hay-rake	337,111	Mar. 2	304	80	34	982
Anderson, Anton G., Chicago, Ill. Bung-bushing machine	335,331	Feb. 2	343	89	34	503
Anderson, Anton G., Chicago, Ill. Bung-bush-molding machine	341,369	May 4	558	154	35	605
Anderson, Anton G., Chicago, Ill. Bung-bush wrench	349,556	Sept. 21	1397	362	36	1322
Anderson, Benjamin C. (See Taylor, Oliver H., assignor.)						
Anderson, Charles, assignor to South Bend Iron Works, South Bend, Ind. Sulky-plow	348,487	Aug. 31	2859	769, 770	36	1026
Anderson, Charles, assignor to South Bend Iron Works, South Bend, Ind. Plow	348,652	Sept. 7	163	45	36	1077
Anderson, Charles, assignor to South Bend Iron Works, South Bend, Ind. Sulky-plow	348,945	Sept. 14	556	147, 148	36	1155
Anderson, Charles A., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Adjustable locking device for grain-binders	352,027	Nov. 2	431	117	37	539
Anderson, Charles E., London, Ontario, Canada. Head-rest	335,554	Feb. 9	655	173	34	565
Anderson, Charles E., London, Ontario, Canada. Invalid-chair	338,330	Mar. 23	1957	515	34	1301
Anderson, Christian. (See Patten and Anderson.)						
Anderson, Christian, Appleton, Wis. Bar or blade for the rolls of paper-pulp engines	349,332	Sept. 21	1069	274	36	1259
Anderson, Clark, Holden, Mo. Baking-powder mixer	345,204	July 6	555	142	36	101
Anderson, Clark, assignor to A. Anderson and J. U. Strode, Holden, Mo. Fly-trap	340,471	Apr. 20	1962	504	35	365
Anderson, David S., assignor of one-half to C. M. Bean, McGrawville, N. Y. Running-gear for vehicles	346,700	Aug. 3	314	86	36	523
Anderson, Frank A. (See Berg and Anderson.)						
Anderson, George H., Bradford, assignor to Jarecki Manufacturing Company, (limited,) Erie, Pa. Stay for oil-well and other derricks	343,264	June 8	713	177	35	1144
Anderson, George K., Memphis, Tenn. Recording speech	335,171	Feb. 2	112	29, 30	34	462
Anderson, George K., Memphis, Tenn. Inking-ribbon for type-writing machines	349,026	Sept. 14	671	173	36	1174
Anderson, George P. (See Hogeland, Israel, assignor.)						
Anderson, George W., Westport, Ind. Cut-off valve	335,172	Feb. 2	117	30	34	462
Anderson, George W., Erin, Tenn. Combined plow and cultivator	354,082	Dec. 14	626	171	37	1129
Anderson, Gustaf R. (See Harrison and Anderson.)						
Anderson, Homer, Peekskill, N. Y. Spring-jack wedge	338,131	Mar. 16	1689	440	34	1244
Anderson, Hugh K. (See Pyle, Emma A., assignor.)						
Anderson, Isaac, assignor of one-half to T. A. Perrott, Saginaw, Mich. Pipe-wrench	340,410	Apr. 20	1879	482	35	350
Anderson, James, Louisville, Ky. Making hydraulic cement	346,525	Aug. 3	98	.....	36	479
Anderson, James C. (See Burner and Anderson.)						
Anderson, James C., Highland Park, Ill. Brick or tile having roughened, drused, or variegated appearance	344,706	June 29	2795	708	35	1533

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Anderson, James C., Highland Park, Ill. Ornamental brick	344,707	June 29	2726	709	35	1533
Anderson, James C., Highland Park, Ill. Brick for window-sills, &c.	346,394	July 27	2267	581	36	434
Anderson, James C., Highland Park, Ill. Brick for window-sills, &c.	346,701	Aug. 3	315	87	36	523
Anderson, James C., Highland Park, Ill. Manufacture of ornamental brick from clays of different colors	348,443	Aug. 31	2799	752	36	1016
Anderson, James C., Highland Park, Ill. Method of and apparatus for making bricks, &c.	348,444	Aug. 31	2800	752 / 753	36	1016
Anderson, James C., Highland Park, Ill. Method of and apparatus for manufacturing brick and tile	348,445	Aug. 31	2803	753 / 754	36	1016
Anderson, James C., Highland Park, Ill. Brick of irregular form for facing walls	349,471	Sept. 21	1284	333 / 334	36	1300
Anderson, James C., Highland Park, Ill. Underground conduit	349,472	Sept. 21	1285	334	36	1300
Anderson, James C., Highland Park, Ill. Brick for facing walls	351,612	Oct. 26	2196	567	37	420
Anderson, James C., Highland Park, Ill. Clay reducer and pulverizer	351,613	Oct. 26	2197	567	37	420
Anderson, James C., Highland Park, Ill. Tile for lining walls, &c	351,614	Oct. 26	2198	568	37	421
Anderson, James C., Highland Park, Ill. Manufacture of drain or irrigating tiles	351,615	Oct. 26	2199	568	37	421
Anderson, James C., Highland Park, Ill. Machine for disintegrating clay, clay-shale, &c.	351,616	Oct. 26	2201	568 / 569	37	421
Anderson, James C., Highland Park, Ill. Machine for disintegrating clay, clay-shale, &c.	351,617	Oct. 26	2202	569	37	421
Anderson, James J., assignor of one-half to A. G. Pettibone and A. H. Mulliken, Chicago, Ill. Machine for coiling bars of metal	350,612	Oct. 12	723	196	37	139
Anderson, James J., assignor of one-half to A. G. Pettibone and A. H. Mulliken, Chicago, Ill. Machine for rolling car-coupling pins	350,857	Oct. 12	1073	287	37	203
Anderson, James J., assignor of one-half to A. G. Pettibone and A. H. Mulliken, Chicago, Ill. Rolling machinery	350,858	Oct. 12	1075	287	37	203
Anderson, James J., assignor of one-half to A. G. Pettibone and A. H. Mulliken, Chicago, Ill. Machine for making car-coupling links	350,859	Oct 12	1076	288	37	203
Anderson, James L., assignor of one-half to W. B. Mason, Grand Rapids, Mich. Rat-trap	352,902	Nov. 16	1621	435	37	778
Anderson, James S., Cincinnati, Ohio. Stamping hard or irregular surfaces	346,632	Aug. 3	234	.....	36	505
Anderson, John, Jackson, Mich. Two-wheeled vehicle	350,284	Oct. 5	249	72	37	52
Anderson, John, Toledo, Ohio. Corner-clamp	353,281	Nov. 30	2171	581	37	897
Anderson, John A., Boston, Mass. Corset	349,969	Sept. 28	1966	508	36	1438
Anderson, John H., Jones Valley, Tenn. Harrow	349,557	Sept. 21	1398	362	36	1322
Anderson, John R. (See Morrison, Hamon, assignor.)						
Anderson, John W., Lancaster, Pa. Meat and vegetable slicing machine	337,545	Mar. 9	915	234 / 235	34	1097
Anderson, John W., Lancaster, Pa. Nut-lock	347,147	Aug. 10	932	248	36	645
Anderson, Joseph. (See Sherman and Anderson.)						
Anderson, Lee, assignor of one-half to R. Wooldridge, Paris, Tex. Hame-lock	335,985	Feb. 9	1265	335	34	673
Anderson, Louis. (See Myers and Anderson.)						
Anderson, Morten. (See Gallagher, Eugene, assignor.)						
Anderson, Ora L., Pleasantville, Ind. Middlings-purifier	351,562	Oct. 26	2113	547	37	406
Anderson, Palmer D., Waterport, N. Y. Plow-point	334,837	Jan. 26	1882	501	34	370
Anderson, Richard. (See Jones, Harvey L., assignor.)						
Anderson, Samuel H., Maddensville, Pa. Sled-brake	343,356	June 8	870	219	35	1172
Anderson, Silas, Owatonna, Minn. Stove-pipe drum or heat-radiator	346,256	July 27	2078	534	36	398
Anderson, Valerius D., Cleveland, Ohio. Drying apparatus	348,541	Sept. 7	1	1	36	1049
Anderson, Valerius D., Cleveland, Ohio. Drier	352,907	Nov. 23	1635	439	37	789
Anderson, William, Denver, Colo. Locomotive	352,601	Nov. 16	1218	330	37	701
Anderson, William C. (See Wolcott, Henry E., assignor.)						
Anderson, William G., assignor of one-half to W. L. Anderson, Boston, Mass. Weather-strip	343,656	June 15	1291	324	35	1254
Anderson, William L. (See Anderson, William G., assignor.)						
Andree, Frank W., Milwaukee, Wis. Spool-holder	352,728	Nov. 16	1394	377	37	735
André, Franz W., Chicago, Ill. Bone-reducer	348,946	Sept. 14	560	148	36	1156
Andress, Edgar H. (See Marsden, George W. L., assignor.)						
Andress, Thomas J. (See Montgomery, Archibald, assignor.)						
Andrew, Charles H., and H. Williams, Stockport, county of Chester, England. Gas-engine	341,538	May 11	793	211	35	666
Andrew, John, Birmingham, Conn., assignor to himself and T. F. Stevenson, Brooklyn, N. Y. Braiding-machine	337,473	Mar. 9	826	209	34	1081
Andrew, Joseph, Lonsdale, R. I. Automatic fire-extinguisher	346,796	Aug. 3	422	116	36	543
Andrews, Alben, A., and D. E., Somerset, Ohio. Forming oil from tallow and kerosene for lubricating, &c.	351,352	Oct. 26	1776	.....	37	343
Andrews, Alfred. (See Andrews, Alben, A., and D. E.)						
Andrews, Charles S., assignor to Hatters Supplies Company, Danbury, Conn. Hat-wire	334,923	Jan. 26	1990	530	34	390
Andrews, David H., Chelsea, Mass. Railway turn-table	333,912	Jan. 5	566	153	34	106
Andrews, Delbert E. (See Andrews, Alben, A., and D. E.)						
Andrews, Edward, Pottsville, assignor of one-half to R. H. Coleman, Cornwall, Pa. Vibrating-cylinder engine	354,762	Dec. 21	1632	432	37	1318
Andrews, Edward, Pottsville, assignor of one-half to R. H. Coleman, Cornwall, Pa. Pumping-engine	354,822	Dec. 21	1707	452	37	1332
Andrews, Edward, Pottsville, assignor of one-half to R. H. Coleman, Cornwall, Pa. Compound engine	354,823	Dec. 21	1708	452	37	1333
Andrews, Emery, Kennebunk, Me. Manufacture of parchmentized paper-board	352,729	Nov. 16	1395	.....	37	735
Andrews, George K. (See Andrews, Lee W., assignor.)						
Andrews, Hezekiah P., Everett, Mass. Ventilator	345,945	July 20	1642	423	36	308
Andrews, James B., and H. R. Gillingham, Baltimore, Md. Package	349,970	Sept. 28	1966	508	36	1438
Andrews & Johnson, *et al.* (See Johnson, Enos H., assignor.)						
Andrews, Lee W., San Francisco, Cal., assignor to G. K. Andrews, St. Louis, Mo. Grinding-machine	341,867	May 18	1240	332	35	755
Andrews, Nathaniel S., and H. F. Burnap, Dubuque, Iowa. Cream-testing churn	334,924	Jan. 26	1991	530	34	390
Andrews, Nathaniel S., and H. F. Burnap, Dubuque, Iowa. Churn	345,097	July 6	415	107	36	76
Andrews, William, Buffalo Grove, Iowa. Sled-brake	349,132	Sept. 14	822	209	36	1201
Andrews, William D., Brookhaven, N. Y. Procuring supplies of water from tubular wells	349,379	Sept. 21	1155	299 / 300	36	1275
Andrews, William D., Brookhaven, N. Y. Means for exhausting air from liquid-receiving vessels or casings	349,420	Sept. 21	1212	315	36	1286
Andrews, William P., Dana, Ind. Pump	337,040	Mar. 2	213	56	34	964
Andrews, William P., assignor to himself, F. Taylor, J. Osborn, and T. S. Hood, Dana, Ind. Building-wall	336,465	Feb. 16	1980	519	34	806
Andrews, William S., New York, N. Y. Safety-catch	348,371	Aug. 31	2697	725	36	996
Andrews, William T., *et al.* (See Looney, John J., assignor.)						
Andrews, William T. (See Timmins and Humphreys, assignors.)						
Andrus, Charles A., La Grange, Ohio. Feeding mechanism for grain, flour, &c	353,436	Nov. 30	2397	640	37	940

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Aneshaensel, Charles, Jr. (See Strong, William, assignor.)						
Aneshaensel & Strong. (See Jacob, Frank A., assignor.)						
Angell, Edmund R., Derry, N. H. Privy	337,546	Mar. 9	918	235	34	1098
Angell, Edwin E. (See Harlow and Angell).						
Angell, George H., and C. L. Leslie, Omaha, Nebr. Seal-lock	334,407	Jan. 19	1301	352	34	255
Angell, Horace B., San Francisco, Cal. Dredger	341,539	May 11	796	212	35	660
Angerer, Victor. (See Samuel and Angerer.)						
Angle, Charles H., Chicago, Ill. Signal-lantern	350,029	Sept. 28	2049	528	36	1453
Anliba, Alfred A., Ionia, Mich. Compound	342,313	May 25	1865	.....	35	879
Annex Pencil Company. (See Wood, Stephen W., assignor.)						
Annin, Joseph, Brooklyn, N. Y. Wheelbarrow	355,845	Dec. 28	2315	610	37	1461
Annis, Alvivas W., *et al.* (See Brownell, Stephen C., assignor.)						
Ansonia Brass and Copper Company. (See Hull, Wolcott A., assignor.)						
Ansonia Brass and Copper Company, *et al.* (See Lyman, Charles H., assignor.)						
Ansonia Brass and Copper Company, *et al.* (See Wayland, James, assignor.)						
Ansonia Clock Company. (See Davies, Walter D., assignor.)						
Anspaugh, Eli H. (See Lavering and Anspaugh.)						
Anthoine, Joseph H., and F. H. Thorndike, Wakefield, Mass. Machine for washing clothes, &c	338,331	Mar. 23	1959	515	34	1302
Anthony & Co., E. & H. T. (See Anthony and Lewis, assignors.)						
Anthony & Co., E. & H. T. (See Atkinson, Richard, assignor.)						
Anthony & Co., E. & H. T. (See Barker, Erastus B., assignor.)						
Anthony & Co., E. & H. T. (See Higgins, John J., assignor.)						
Anthony & Co., E. & H. T. (See Lewis, William H., assignor.)						
Anthony & Co., E. & H. T. (See Lewis and Barker, assignors.)						
Anthony & Co., E. & H. T. (See Newton, Henry J., assignor.)						
Anthony & Co., E. & H. T. (See Roche, Thomas C., assignor.)						
Anthony, Edgar W., Boston, Mass. Heating-stove	354,297	Dec. 14	961	255	37	1188
Anthony, Edgar W., Boston, assignor to J. A. Miller, Providence, R. I., and F. F. Raymond, 2d, Newton, Mass., trustees. Heating-stove	354,671	Dec. 21	1502	398	37	1293
Anthony, Edmond, Castleton, assignor of one-half to W. H. Keeler, Albany, N. Y. Rotary fan	339,038	Mar. 30	2972	786	34	1486
Anthony, Gardner C., Providence, R. I. Gas-engine	337,226	Mar. 2	455	119	34	1010
Anthony, John R., Sherman City, Kans. Fertilizer-distributer. (Reissue)	10,706	Apr. 6	755	186	35	132
Anthony, John R., Sherman City, Kans. Fertilizer-distributer	348,507	Aug. 31	2891	777 778	36	1032
Anthony, Mark, San Francisco, Cal. Faucet and bushing	339,252	Apr. 6	201	51	35	37
Anthony, Philip, Cleveland, Ohio. Privy and attachments	334,151	Jan. 12	914	250	34	178
Anthony, Richard A., and W. H. Lewis, assignors to E. & H. T. Anthony & Co., New York, N. Y. Photographic camera	349,133	Sept. 14	824	209	36	1202
Anthony, William G., Lynn, Mass. Burnishing-machine	335,671	Feb. 9	817	218	34	594
Antrim, R. Jay, Philadelphia, Pa. Fire-alarm	354,096	Dec. 7	516	140	37	1100
Apfelbaum, Morris, New York, N. Y. Umbrella	350,030	Sept. 28	2049	529	36	1453
Apgar, Elias, Grand Crossing, Ill. Car-coupling	347,679	Aug. 17	1706	455	36	796
Apgar, George W., Ithaca, N. Y. Writing-tablet	346,526	Aug. 3	99	26	36	479
Apoll, Jacob, assignor to Duncan & Johnston, Chicago, Ill. Joint for frames of pictures and other frames	354,824	Dec. 21	1710	453	37	1333
App, Michael, Cleveland, Ohio. Brush	346,421	July 27	2306	594	36	441
Appel, Daniel, Cleveland, Ohio, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper bag	340,074	Apr. 20	1396	351 352	35	261
Appel, Daniel, Cleveland, Ohio, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper bag	340,075	Apr. 20	1398	352	35	262
Appel, Daniel, Cleveland, Ohio, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper bag	340,076	Apr. 20	1399	352	35	262
Appel, Daniel, Cleveland, Ohio, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-folding machine	340,077	Apr. 20	1400	353 354	35	262
Appel, Daniel, Cleveland, Ohio, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper bag	340,078	Apr. 20	1403	354	35	263
Appel, Daniel, Cleveland, Ohio, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper bag	340,079	Apr. 20	1404	354 355	35	263
Appel, Daniel, Cleveland, Ohio, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Folding machine	340,080	Apr. 20	1406	355 356	35	263
Appel, Daniel, Cleveland, Ohio, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag machine	340,081	Apr. 20	1409	356	35	263
Appelquist, Frederick. (See Teller, William E., assignor.)						
Apple, Henry S. (See Durvea, Charles E., assignor.)						
Appleby, Charles O., New Haven, Conn. Making cutlery	336,198	Feb. 16	1596	419	34	738
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Knotting mechanism for grain-binders	335,332	Feb. 2	344	90	34	503
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Combined harvester and binder	336,075	Feb. 16	1403	371 372	34	705
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Combined harvester and binder	339,126	Apr. 6	5	2, 3	35	4
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Grain-binder for harvesters	346,451	Aug. 3	1	1	36	461
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Harvester	348,259	Aug. 31	2546	683 684	36	965
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Harvester	348,260	Aug. 31	2547	684 685	36	966
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Knotting apparatus for grain-binders	352,602	Nov. 16	1219	330 331	37	701
Appleby, Joseph, Birmingham, England. Lead or crayon holder	338,332	Mar. 23	1959	516	34	1302
Appleby, Joseph, Birmingham, England. Holder for pencils and other implements	346,014	July 20	1743	449	36	325
Applegarth, John, East Oakland, and W. Applegarth, Fresno County, Cal. Ore-roasting furnace	351,563	Oct. 26	2114	548	37	406
Applegarth, William. (See Applegarth, John and W.)						
Applegarth, William, Fresno, Cal. Road-engine	352,385	Nov. 9	944	253	37	641
Applegate, Benjamin F., New Albany, Ind. Clutch-coupling	344,611	June 29	2609	676	35	1511
Applegate, Benjamin F., New Albany, Ind. Shaft-coupling	349,678	Sept. 28	1555	403	36	1361
Applegate, Benjamin F., and B. F. Lagel, New Albany, Ind. Band-cutter and distributer for thrashing-machines	340,273	Apr. 20	1692	431	35	314
Appleton, George H., *et al.* (See Crepeau, Henry T., assignor.)						
Appleton Manufacturing Company. (See Stone, Herbert F., assignor.)						
Appling, James W., *et al.* (See Fleck, Joseph V., assignor.)						
Appling, Marby P., Campbell, Tex. Air-ship	353,193	Nov. 23	2054	548	37	868

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Appling, Thomas M., Auburn, Ky. Egg-case	339,612	Apr. 13	763	189	35	141
Arbogast, Albert, and W. Hains, Selin's Grove, Pa. Washing-machine	334,555	Jan. 19	1509	404	34	292
Arbogast, Philip, Pittsburg, Pa. Manufacture of glassware	352,672	Nov. 16	1321	356	37	719
Archer, George W., assignor to Archer Manufacturing Company, Rochester, N. Y. Barber and dental chair	342,724	May 25	2464	652	35	986
Archer, Jacob A. (See Ford, Alfred, assignor.)						
Archer, John B., Washington, D. C. Manufacturing illuminating-gas	341,622	May 11	907	241 / 242	35	682
Archer, John B., Washington, D. C. Boiler-furnace	341,623	May 11	909	242	35	683
Archer, John B., Washington, D. C. Apparatus for manufacturing illuminating gas	341,624	May 11	910	241	35	683
Archer, John B., Washington, D. C. Combined gas and steam generator	341,625	May 11	912	242	35	683
Archer, John B., Washington, D. C. Boiler-furnace	341,626	May 11	914	242	35	684
Archer, John B., Washington, D. C. Apparatus for generating gas or vapor	341,627	May 11	916	242	35	684
Archer, John B., Washington, D. C. Boiler-furnace	341,628	May 11	917	243	35	684
Archer, John B., Washington, D. C. Apparatus for generating vapor or gas	341,629	May 11	918	243	35	685
Archer Manufacturing Company. (See Archer, George W., assignor.)						
Archer, Thomas, Jr., Gateshead-on-Tyne, England. Ore-crusher	340,472	Apr. 20	1963	504	35	365
Archibald, Isaac W., Elgin, Ill. Thill-coupling	334,838	Jan. 26	1883	501	34	370
Arens, August. (See Mix and Arens.)						
Arkell, James, *et al.* (See Tompkins, John D., assignor.)						
Arkland, Alexander D. (See Wilder and Arkland.)						
Armant, Edmond. (See Bartholomew, George E., assignor.)						
Armbrust, Ferdinand. (See Smith and Armbrust.)						
Armendinger, William, New York, N. Y. Gas-regulator	350,182	Oct. 5	120	34	37	25
Armington, Henry W., Denver, Colo. Insecticide	341,868	May 18	1241	.....	35	756
Armitage, Albert, assignor of two-thirds to E. F. Gilbert and E. F. Kershner, Lyons, N. Y. Car-coupling	340,473	Apr. 20	1963	504 / 505	35	365
Armitage, Albert, Lyons, assignor, by mesne assignments, to L. Bickford and H. M. Kirkpatrick, Macedon, N. Y. Changeable speed-gearing	345,018	July 6	318	80	36	58
Armitage, Barclay M., Minnedosa, Manitoba, Canada. Utilizing water-power	337,727	Mar. 9	1136	293 / 294	34	1136
Armour, Michael C., and F. G. Bielefeld, assignors to Adams & Westlake Manufacturing Company of Michigan, Chicago, Ill. Vapor-burner	353,654	Dec. 7	1	1	37	1007
Armour, Robert J., *et al.* (See Osborne, Theodore B., assignor.)						
Armstrong, Elvin, Jerseyville, Ill. Bee-hive	346,883	Aug. 10	549	149	36	575
Armstrong, Elvin S., Jerseyville, Ill. Bee-hive	349,073	Sept. 14	737	188	36	1186
Armstrong, Frank. (See Barnes, George A., assignor.)						
Armstrong, Frank, and N. W. Vandegrift, Bridgeport, Conn.; said Vandegrift assignor to said Armstrong. Wrench	335,986	Feb. 9	1265	335	34	674
Armstrong, George F., Philadelphia, Pa. Wheel for trucks	344,471	June 29	2416	622	35	1474
Armstrong, George S., assignor of one-half to J. E. Kiefer and W. G. Hutchison, Denver, Colo. Amalgamator	349,778	Sept. 28	1716	443	36	1389
Armstrong, James T., London, England. Electric battery and means for emptying and recharging it with the exciting-fluid	340,474	Apr. 20	1965	505 / 506	35	365
Armstrong, John A. (See Beale and Armstrong.)						
Armstrong, John J., and A. S. Lowrey, assignors of one-third to W. C. Munn, Weimar, Tex. Corn and cotton planter	355,115	Dec. 28	2123	558	37	1423
Armstrong, John S., St. John, New Brunswick, Canada. Form of building material	334,401	Jan. 12	1287	346 / 347	34	256
Armstrong, Samuel, assignor of one-half to J. Stanard, Newark, N. J. Oil-stove	351,682	Oct. 26	2293	594	37	439
Armstrong, Samuel S. (See Robie, Henry W., assignor.)						
Armstrong, Wesley S., Cleveland, Ohio. Bird-cage protector	341,540	May 11	798	213	35	661
Armstrong, William C., Springfield, Ohio. Burial-casket	335,672	Feb. 9	818	218	34	594
Arndt, Daniel, Cleveland, Ohio. Lawn-mower	338,132	Mar. 16	1692	440	34	1245
Arndt, Henry A., assignor to A. Reiter, Philadelphia, Pa. Preparation for cleaning and polishing metals	352,438	Nov. 9	1009	.....	37	655
Arnett, William D., Morrison, Colo. Seeding-machine	345,403	July 13	838	210	36	156
Arnett, William D., Denver, Colo. Grain-drill	347,982	Aug. 24	2145	571	36	884
Arnheim, Eugene, New York, N. Y. Cap	344,231	June 22	2086	533	35	1407
Arnold, Alonzo B., assignor of two-thirds to D. H. Gotshall and P. L. Fedderson, Gladbrook, Iowa. Neck-yoke coupling	340,972	May 4	3	1	35	505
Arnold, Benjamin, East Greenwich, R. I. Mariner's signal-compass	338,160	Mar. 16	1727	451	34	1252
Arnold, Benjamin, East Greenwich, R. I. Machine for making interlocked cordage	353,396	Nov. 30	2336	624	37	927
Arnold, Bion J., Hillsdale, Mich. Traction-engine	335,497	Feb. 2	567	148	34	542
Arnold, Charles B., Glencoe, Ky. Hand corn-planter. (Reissue)	10,785	Nov. 30	2731	728	37	1000
Arnold, Clarence W. (See Arnold, Oliver and C. W.)						
Arnold, Craig R., Philadelphia, Pa. Incandescent electric lamp	339,253	Apr. 6	201	51	35	38
Arnold, Hudson H. C., Dallas, Tex. Fruit-picker	353,110	Nov. 23	1928	517	37	844
Arnold, James M., Philadelphia, Pa. Freeing paper from electricity	341,788	May 11	1126	298	35	725
Arnold, James T., trustee, *et al.* (See Carlin, Thomas H., assignor.)						
Arnold, John, Brookville, Ohio. Car-coupling	341,396	May 4	597	164	35	613
Arnold, John A. J., assignor to L. E. Arnold, Stilesville, Ind. Lift-pump	338,687	Mar. 30	2459	649	34	1395
Arnold, Louisa E. (See Arnold, John A. J., assignor.)						
Arnold, Louis L., Buffalo, N. Y. Pocket cigarette-machine	338,580	Mar. 23	2297	601	34	1361
Arnold, Oliver and C. W., assignors to E. Brown, trustee, Worcester, Mass. Mechanical movement	342,060	May 18	1498	400	35	802
Arnold, Samuel, London, county of Middlesex, England, assignor to Johnston Harvester Company, Batavia, N. Y. Harvester-rake trip	338,908	Mar. 30	2782	733	34	1453
Arnold, Theodore A. (See Storms and Arnold.)						
Arnold, William, Barnsley, county of York, England. Machine for manufacturing boiler-tubes	352,987	Nov. 23	1745	467 / 468	37	809
Arnold, William B., *et al.* (See Brown, Edward I., assignor.)						
Arnold, William B., North Abington, Mass. Boot or shoe	335,555	Feb. 9	656	173	34	565
Arnold, William B., North Abington, Mass. Waxed end	342,725	May 25	2465	653	35	986
Arnold, William B., North Abington, Mass. Waxed end or thread	351,683	Oct. 26	2295	594	37	439
Arnold, William P., *et al.* (See Cardwell, George A., assignor.)						
Arnold, William S., Chatham, Ontario, Canada. Steam-engine. (Reissue)	10,707	Apr. 6	756	187	35	133
Arnold, William T., *et al.* (See Belt, Samuel, assignor.)						
Arnot, William, Selma, Ala. Governor for engines	350,797	Oct. 12	991	265	37	187
Arns, Carl A., Remscheid, Prussia, Germany. Pneumatic hammer	337,728	Mar. 9	1136	294	34	1136
Arper, George W., Oakland, Cal. Siphon	339,127	Apr. 6	9	3	35	4
Arteaga, Serapio, and E. del Valle, New York, N. Y. Combined coal-cart and weighing-scale.	354,998	Dec. 28	1953	515	37	1391
Arthur, Alexander J., Fort Dodge, Iowa. Inside blind	341,541	May 11	799	213	35	661
Arthur, Alexander J., Fort Dodge, Iowa. Folding blind for windows	341,542	May 11	800	213	35	661
Arthur, Alexander J., Fort Dodge, Iowa. Window-blind	341,543	May 11	800	213	35	661

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Arthur, Samuel T., Creek, Ill. Washing-machine	336,617	Feb. 23	2192	572	34	849
Artbur, William V., Oakland, Cal. Chin-rest for violins	351,952	Nov. 2	324	90	37	518
Artman, Clifford A., Dansville, N. Y. Polishing attachment for lathes	348,146	Aug. 24	2366	634	36	926
Artmann, Fredrick, Lexington, Miss. Combined cooking-stove and baking and warming oven	333,714	Jan. 5	307	84	34	57
Artós, Frederick. (See Jones, Crooker, and Artós.)						
Atts, John L. (See Grimshaw, William D., assignor.)						
Ash, Alfred J., Boston, Mass. Necktie-fastener	349,832	Sept. 28	1791	463	36	1404
Ash, James. (See Campbell and Ash.)						
Ash, John S., Buckingham, Pa. Valve-motion	337,293	Mar. 2	556	147	34	1028
Ash, John S., Buckingham, Pa. Steam-engine	347,219	Aug. 10	1028	274	36	662
Ash, John W. (See Tucker, James W., assignor.)						
Ash, Joseph. (See Pitney and Ash.)						
Ash, Joseph H., Brooklyn, N. Y. Kitchen range or pressure boiler	352,847	Nov. 16	1546	417	37	762
Ash, Robert S., Villa de la Riva, Monaco. Ventilating sewers, drains, mines, hospitals, &c	355,116	Dec. 28	2124	558	37	1423
Ashby, Daniel S., assignor to himself, C. D. H. and J. G. Bustard, and H. L. Snapp, Stephenville, Tex. Head-rest for chairs	346,634	Aug. 3	236	65	36	506
Ashby, Delmar E., San Francisco, Cal. Fruit-jar	333,715	Jan. 5	308	84	34	58
Ashby, Delmar E., San Francisco, Cal. Fruit-jar	333,716	Jan. 5	309	84	34	58
Ashby, Delmar E., San Francisco, Cal. Fruit-jar	333,717	Jan. 5	310	85	34	58
Ashby, George Harrison, Ohio. Drip-cup	335,007	Jan. 26	2102	559	34	410
Ashbourne, Alexander P., Philadelphia, assignor of one-half to C. Young, Malvern, Pa. Treating or refining porpoise-oil	340,851	Apr. 27	2404	.....	35	466
Ashcroft, Edward H., Lynn, Mass. Automatic fire-extinguisher	346,571	Aug. 3	150	41	36	489
Ashcroft, John, New York, N. Y. Grate-bar	347,548	Aug. 17	1503	398, 399	36	758
Ashcroft, John, New York, N. Y. Feeding air to furnaces	347,549	Aug. 17	1504	399	36	758
Ashcroft, John, New York, N. Y. Draft-regulator	347,550	Aug. 17	1506	400	36	758
Ashcroft Manufacturing Company. (See Gowing, Earle H., assignor.)						
Ashcroft Manufacturing Company. (See Low, Frederick R., assignor.)						
Ashe, Robert, Somerville, assignor to J. F. Curtis, Boston, Mass. Tack-driving mechanism for lasting boots or shoes	341,823	May 11	1175	314	35	735
Asher, Henry, *et al.* (See Crosby, Charles M., assignor.)						
Ashley, Carlton G., Cleveland, assignor of one-half to R. L. Ashley, Perry, Ohio. Surgical instrument	346,633	Aug. 3	235	64	36	505
Ashley, R. L. (See Ashley, Carlton G., assignor.)						
Ashton, William, Manchester, assignor of one-half to E. Scott, Newcastle, England. Apparatus for registering the power of steam-engines, &c	348,147	Aug. 24	2367	635, 636	36	926
Ashworth, John, Somerville, Mass. Covered elastic endless band	345,660	July 20	1245	323	36	237
Ashworth, John, Chicago, Ill. Fire-alarm signal-box	353,475	Nov. 30	2452	655	37	950
Asiel & Co., L. N., *et al.* (See West, Jonathan B., assignor.)						
Askin, George P., assignor to C. R. and J. C. Wilson, Detroit, Mich. Shifting thill-coupling	354,848	Dec. 21	1738	460	37	1339
Askins, Joseph, Lima, Ohio. Churn	344,232	June 22	2087	534	35	1408
Askins, Joseph, Lima, Ohio. Radiator	350,336	Oct. 5	317	90	37	64
Askren, James C., *et al.* (See Kneedler, Lewes, assignor.)						
Askren, James C., Mount Ayr, Iowa. Car-coupling	349,679	Sept. 28	1556	403	36	1361
Asper, Benjamin F. (See McCarter, Samuel, assignor.)						
Asper, Benjamin F., Pittsburg, assignor of one-half to S. McCarter, Norristown, Pa. Chain-saw	349,833	Sept. 28	1792	463	36	1404
Aspinwall, D. La Mont, Petersburg, Va., assignor to American Animal Tether Company. Animal-tether	349,625	Sept. 21	1485	384	36	1340
Aspinwall, John. (See Treadwell, William B., assignor.)						
Aspinwall, Lewis A., Three Rivers, Mich., assignor to Aspinwall Manufacturing Company, Trenton, N. J. Potato-planter	342,491	May 25	2123	561, 562	35	923
Aspinwall Manufacturing Company. (See Aspinwall, Lewis A., assignor.)						
Astley, John V., *et al.* (See Wiser, David, assignor.)						
Atherton, Frank, and M. T. Bentley, Paterson, N. J. Hose-coupling	333,913	Jan. 5	567	154	34	106
Atherton, Jesse, Brockton, Mass. Metallic shoe-shank	346,572	Aug. 3	152	42	36	489
Atherton Machine Company. (See Diman, Charles C., assignor.)						
Atherton Machine Company. (See Potter, James C., assignor.)						
Atkin, Samuel T., and O. Steele, Georgetown, Tex. Well-bucket fixture	349,626	Sept. 21	1486	385	36	1340
Atkins & Company, E. C. (See Black, George S., assignor.)						
Atkins & Company, E. C. (See Crossman and Buch, assignors.)						
Atkins, Daniel T., Worsham, Va. Millstone-dress	346,015	July 20	1746	449	36	326
Atkins, Elias C., Indianapolis, Ind. Manufacturing soap	339,727	Apr. 13	931	228	35	170
Atkins, Elias C., Indianapolis, Ind. Band-saw	339,728	Apr. 13	933	228	35	170
Atkins, Elias C., Indianapolis, Ind. Combined roasting and smelting furnace	341,988	May 18	1392	372	35	782
Atkins, Elias C., Indianapolis, Ind. Band-saw	341,989	May 18	1394	372	35	783
Atkins, Elias C., Indianapolis, Ind. Band-saw mill	342,416	May 25	2018	532	35	904
Atkins, George J. (See Ambrose and Atkins.)						
Atkinson, Charles W., and R. Murphy, Cincinnati, Ohio. Flushing-tank	354,456	Dec. 14	1169	312	37	1227
Atkinson, Hobart F., *et al.* (See Spencer, Esther R., assignor.)						
Atkinson, Hobart F., *et al.* (See Wilson, Joseph C., assignor.)						
Atkinson, James, Hampstead, county of Middlesex, England. Gas-engine	336,505	Feb. 16	2026	532	34	814
Atkinson, James W., and C. E. White, assignors to Deere & Mansur Company, Moline, Ill. Combined corn and cotton planter	350,964	Oct. 19	1217	322, 323	37	236
Atkinson, Richard E., assignors to E. & H. T. Anthony & Co., New York, N. Y. Tray for developing photographic plates	337,547	Mar. 9	919	235	34	1097
Atkinson, Samuel, Cincinnati, Ohio. Vehicle-spring	346,016	July 20	1747	449	36	326
Ator, Margaret W., Bloomington, Ill. Letter-box bell	354,032	Dec. 7	555	151	37	1107
Atterbury, Allen W. (See Likins, William H., assignor.)						
Attrill, H. F., *et al.* (See Kniese, Frederick C., assignor.)						
Atwater, Richard, Meriden, Conn. Printer's quoin	340,475	Apr. 20	1967	506	35	366
Atwood, Charles H. (See Hathaway, William A., assignor.)						
Atwood & Colwell. (See Crook, Joseph E., assignor.)						
Atwood, Eugene. (See Atwood and Bradley.)						
Atwood, George F., Swanton, Vt. Garment-supporter	345,205	July 6	555	142	36	101
Atwood, James B., Boston, assignor of one-half to S. W. Sexton, Springfield, Mass. Foot-guard for railways	353,771	Dec. 7	163	45	37	1037
Atwood, James B., Boston, and S. H. Howes, Chelsea, Mass. Gage-cock	338,215	Mar. 16	1800	469	34	1266
Atwood, James F., Boston, Mass. Cuff-holder	333,494	Jan. 5	1	1	34	3
Atwood, James F., Boston, Mass. Garment-supporting clasp	333,495	Jan. 5	1	1	34	3
Atwood, John E., Stonington, Conn. Spinning-frame	338,216	Mar. 16	1801	470	34	1266
Atwood, John E., Stonington, Conn. Cotton-gin	346,573	Aug. 3	152	42	36	489

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Atwood, John E. and E., and E. E. Bradley, Stonington, Conn., assignors to said John E. and E. Atwood. Swift for silk, &c	338,627	Mar. 23	2364	622	34	1373
Atwood, John E. and E., and E. E. Bradley, assignors to Atwood Machine Company, Stonington, Conn. Shedding mechanism for looms	346,574	Aug. 3	156	42, 43	36	490
Atwood, Joseph R. (See De Lue, Samuel J., assignor.)						
Atwood, Leonard, assignor of one-half to H. Robertson, New York, N. Y. Bottle-stopper	351,730	Nov. 2	1	1	37	459
Atwood Machine Company. (See Atwood and Bradley, assignors.)						
Atwood, Washington L., Amesbury, Mass. Dash-frame for vehicles	337,294	Mar. 2	558	147	34	1029
Aubeuf, Frank J. (See Teal, Daniel E., assignor.)						
Aubeuf, Frank J., Oneida, N. Y. Hand cart	351,561	Oct. 26	2112	547	37	406
Aubin, Philip, assignor, by mesne assignments to W. M. Green, Lowell, Mass. Apparatus for clearing waste from the spindles of spinning-mules	335,498	Feb. 2	567	148	34	542
Auble, James H., Lawrenceburg, Ind., assignor of one-half to J. Cloke, Cincinnati, Ohio. Apparatus for graining	337,729	Mar. 9	1137	294	34	1136
Auchterlonie, William J., Newark, assignor to himself and G. W. Averell, Montclair, N. J. Paper box	340,904	Apr. 27	2565	676	35	478
Audirsch, Carl, assignor to himself and W. W. Strickland, Gurdon, Ark. Combined plow, cultivator, and harrow	335,008	Jan. 26	2102	560	34	410
Audoye, Pierre P., Paris, France. Brush	351,306	Oct. 19	1711	449	37	325
Auge, George W. (See Zwover, Ellsworth B. A., assignor.)						
Auger, Robert, New York, N. Y. Rotary engine	338,688	Mar. 30	2460	649	34	1395
Augier, Newell G., Stuart, Nebr. Folding bed	337,730	Mar. 9	1138	295	34	1136
Auld, Joseph, Burlington, Vt. Inside window-blind	355,045	Dec. 28	2023	532	37	1403
Auld, Joseph, Burlington, Vt. Inside window-blind	355,046	Dec. 28	2024	533	37	1403
Aultman, Riley J., Clark's, Ohio. Machine for manufacturing fences	340,476	Apr. 20	1968	506	35	366
Aumond, Joseph P. (See Latulip, Frederick, assignor.)						
Aumond, Joseph P. (See Latulip, Frederick, assignor.) (Reissue.)						
Aura, Daniel W. (See Thrush and Aura.)						
Auredenn, John, Cincinnati, Ohio. Knitting-machine	355,047	Dec. 28	2026	533	37	1403
Austermell, Jefferson H., *et al.* (See Brooks, Willard P., assignor.)						
Austin, Alonzo D., assignor of one-half to N. M. Terry, Jackson, Mich. Device for driving tube-wells	348,813	Sept. 7	366	99	36	1116
Austin, Aronamoas B., assignor to J. D. Gumpper, D. J. Harmon, Jr., and J. H. Douglass, Fort Wayne, Ind. Toy pistol	342,893	June 1	166	42	35	1036
Austin, Franklin H., Onoomea, Hilo, Hawaii. Cultivator	336,884	Mar. 2	1	1	34	927
Austin, Harry K., Carn Brea Villa, Washwood Heath Road, county of Warwick, England. Car-axle box	336,685	Feb. 23	2295	600	34	869
Austin, Josiah, near East Liberty, Ohio. Water-feeder for boilers	343,529	June 8	1106	278	35	1215
Austin, Josiah, and R. Chamberlain, East Liberty, Ohio. Gate	336,031	Feb. 9	1327	351	34	684
Austin, Kenneth S., Havelock Cottage, Washwood Heath Road, county of Warwick, England. Car-axle box	336,831	Feb. 23	2479	652	34	903
Austin, Newton W., Newport, Ky. Weighing and price scale	346,017	July 20	1748	449, 450	36	326
Austin, Oren, assignor of one-half to H. Greek, Painted Post, N. Y. Bridle-bit	349,246	Sept. 14	975	249	36	1231
Austin, William K., Brooklyn, N. Y. Rotary steam-engine	348,879	Sept. 7	458	121, 122	36	1132
Automatic Car Brake, Starter, and Propeller Company. (See Morell, James F., assignor.)						
Automatic Car Brake, Starter, and Propeller Company. (See Morell and Tilton, assignors.)						
Automatic Cigar Machine Company. (See Thompson, John, assignor.)						
Automatic Dining Table Company. (See Grillwitzer, Charles A., assignor.)						
Automatic Fire Alarm and Extinguisher Company. (See Bulen, George F., assignor.)						
Automatic Shoe Beader Company. (See Hatfield, Charles B., assignor.)						
Autophone Company. (See Morris, Henry B., assignor.)						
Aveling, Thomas L., Boley Hill House, Rochester, England. Wheel for road-engines	342,314	May 25	1866	495	35	879
Averell, George W. (See Auchterlonie, William J., assignor.)						
Averell, William W., Washington, D. C. Insulating conduit	348,880	Sept. 7	464	123	36	1133
Averill, Emery J., Bangor, Me. Combined spoon and scraper	339,514	Apr. 6	578	139	35	106
Avery, George C., assignor to B. F. Avery & Sons, Louisville, Ky. Combined cotton-seed and corn planter	341,123	May 4	208	63	35	544
Avery, George W., Fort Ransom, Dak. Ter. Wagon-tongue	353,048	Nov. 23	1846	498	37	826
Avery, Henry W., assignor of one-half to W. C. Avery, Cleveland, Ohio. Conveyer-bucket	352,077	Nov. 2	502	135	37	553
Avery Lactate Company. (See Nowell, Thomas S., assignor.)						
Avery Planter Company. (See Avery, Robert H., assignor.)						
Avery Planter Company. (See Avery and Berrien, assignors.)						
Avery Planter Company. (See Berrien, Leonard B., assignor.)						
Avery, Robert H., assignor to Avery Planter Company, Peoria, Ill. Plow-fender	334,408	Jan. 19	1302	352, 353	34	256
Avery, Robert H., and L. B. Berrien, assignors to Avery Planter Company, Peoria, Ill. Cultivator	351,684	Oct. 26	2296	595, 596	37	439
Avery & Sons, B. F. (See Avery, George C., assignor.)						
Avery, William. (See Kimball and Avery.)						
Avery, William C. (See Avery, Henry W., assignor.)						
Avis, Samuel, Burden, Kans., assignor of one-half to W. K. McComas. Rotary engine	350,408	Oct. 5	400	114	37	80
A. W. C. Curry Comb Company. (See Warner, Peter W., assignor.)						
Awalt, Jesse C., Steward's Mills, Tex. Cotton-sweep	334,409	Jan. 19	1303	353	34	256
Axtell, Henry A., Montague, Mass. Mortising and boring machine	343,217	June 8	643	160	35	1132
Axten, Robert, London, England. Can-opener	339,515	Apr. 6	580	139	35	106
Aydelott, Jacob S., Xenia, Ind. Parlor base-ball game	336,076	Feb. 16	1405	372	34	705
Ayer, Edwin W., Cumberland Mills, Me. Apparatus for winding and rewinding paper	336,686	Feb. 23	2297	600, 601	34	869
Ayer, George S., Saco, Me. Combined force and lift pump	338,689	Mar. 30	2461	649	34	1395
Ayers, James R., Petersburg, Va. Peanut-planter	346,976	Aug. 10	679	180	36	599
Aylesworth, Charles S., Speegleville, Tex. Marine torpedo-service	353,728	Dec. 7	110	30	37	1026
Aylsworth, George H., Niles, Mich. Wind-wheel	346,797	Aug. 3	423	117	36	543
Aylworth, George H., Jacksonville, Fla. Summer fan	334,684	Jan. 19	1684	450	34	325
Ayres, Allen T., *et al.* (See Bennett, Edward O., assignor.)						
Ayres, Daniel B., Brooklyn, Mich. Fence-post	349,266	Sept. 14	998	255	36	1236
Ayres, Henry L. (See Walters and Ayres.)						
Ayres, Hobart, Chicago, Ill. Ladder-step	335,051	Jan. 26	2169	576	34	421
Ayres, Ruben B., St. Louis, Mo. Furnace	345,611	July 13	1154	295, 296	36	214
Ayres, Ruben B., St. Louis, Mo. Wardrobe-bedstead	345,612	July 13	1155	296	36	214
Ayres, Ruben B., St. Louis, Mo. Steam-boiler	346,837	Aug. 3	478	132	36	554

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Ayrton, William. (See Shepherd, Ayrton, and Siddall.)						
Baar, Gerhard L., assignor to M. Clune, Indianapolis, Ind. Combined wardrobe and lounge	339,516	Apr. 6	580	140	35	106
Babb, John H. (See Lewis and Babb.)						
Babbitt, Benjamin T., New York, N. Y. Steam-generator	340,188	Apr. 20	1566	396	35	292
Babbitt, Benjamin T., New York, N. Y. Soap-frame	342,558	May 25	2217	589	35	940
Babbitt, Benjamin T., New York, N. Y. Ordnance-projectile	346,343	July 27	2193	562	36	419
Babbitt, Benjamin T., New York, N. Y. Apparatus for steering vessels	347,083	Aug. 24	2146	571	36	884
Babbitt, Benjamin T., New York, N. Y. Operating ordnance	347,984	Aug. 24	2148	571	36	885
Babbitt, Benjamin T., New York, N. Y. Apparatus for steering vessels	347,985	Aug. 24	2149	572	36	885
Babbitt, Benjamin T., New York, N. Y. Steam-generator	348,093	Aug. 24	2302	617	36	914
Babbitt, Seth W., assignor of two-thirds to W. E. Nettleton, Meriden, and J. B. Renshaw, Hartford, Conn. Bicycle-suspender	352,508	Nov. 16	1094	295	37	679
Babcock, Alfred D., assignor to himself and E. A. Hubbell, Leon, N. Y. Car-coupling	339,517	Apr. 6	581	140	35	107
Babcock, Charles, assignor of one-fourth to J. M. Foster, Troy, N. Y. Potato-digger	338,133	Mar. 16	1692	440, 441	34	1245
Babcock, Charles E., Troy, N. Y. Toboggan	334,925	Jan. 26	1992	531	34	391
Babcock, E. Stillman, assignor of one-half to A. S. Maxson, Milton, Wis. Vent-hole closer for pumps	349,680	Sept. 28	1557	403	36	1361
Babcock, Eli A., Cambridge City, Ind. Apparatus for opening doors	344,338	June 29	2233	575	35	1441
Babcock, George H., Plainfield, N. J. Air or gas engine	334,152	Jan. 12	915	250	34	178
Babcock, George H., Plainfield, N. J. Air or gas engine	334,153	Jan. 12	919	251	34	179
Babcock, George H., Plainfield, N. J. Operating air or gas engines	334,154	Jan. 12	924	251	34	179
Babcock, George H., Plainfield, N. J. Operating air and gas engines	334,155	Jan. 12	928	251	34	179
Babcock, Holland C., New York, N. Y. Machinery-belt	338,016	Mar. 16	1537	399	34	1215
Babcock, William H., assignor of one-half to P. Goeble, Alton, Iowa. Bolt-lock	333,718	Jan. 5	310	85	34	58
Babcox, Hiram M. D. L., San Francisco, Cal. Pump	334,211	Jan. 12	1023	272	34	198
Babendreier, Albert, Baltimore, Md., assignor of one-half to F. L. Babendreier, Washington, D. C. Triturator	336,618	Feb. 23	2193	572, 573	34	849
Babendreier, C. Albert. (See Brickenstein and Babendreier.)						
Babendreier, Fred L. (See Babendreier, Albert, assignor.)						
Baca, Boman L., and J. L. Leavitt, Grant, N. Mex. Ter. Device for controlling the opening of locks on railway-cars, &c	345,473	July 13	940	237	36	174
Bach, Jacques. (See Kranich and Bach.)						
Bachand, Levi N., assignor to J. H. Whipple, Chicago, Ill. Frame for draping fringe, &c	334,413	Jan. 19	1307	354	34	256
Bache, R. Meade, Philadelphia, Pa. Heating apparatus	350,337	Oct. 5	318	90	37	65
Bachelder, Charles H., assignor of one-half to G. E. Kent, Pittsfield, N. H. Shuttle-operating mechanism for looms	345,946	July 20	1643	423	36	308
Bacher, Peter, Canton, Ohio. Roller for roller-skates	341,206	May 4	322	91	35	564
Bachert, Max. (See Randall, George W., assignor.)						
Bachman, Jacob, Stony Run, Pa. Grain-separator	340,752	Apr. 27	2367	623, 624	35	442
Bachman, Jacob, Stony Run, Pa. Reel for harvesters	347,551	Aug. 17	1506	400	36	758
Bachman, Jacob, Stony Run, Pa. Frictional driving device	350,471	Oct. 12	525	147	37	105
Bachman, Joseph A. (See Clark and Bachman.)						
Bachmann, Ulrich, St. Helena, Cal. Automatic filling-faucet	348,372	Aug. 31	2098	725	36	996
Bachmeyer & Co., August. (See Seeger, Jacob, assignor.)						
Bachner, Joseph, assignor to himself and G. A. Harmount, Chicago, Ill. Automatic device for raising illuminating-flames	342,492	May 25	2125	562	35	924
Bachner, Joseph, assignor to himself and G. A. Harmount, Chicago, Ill. Stem winding and setting watch	354,083	Dec. 14	626	171	37	1129
Bachner, Joseph, assignor to himself and G. A. Harmount, Chicago, Ill. Stop-watch	354,084	Dec. 14	628	171	37	1129
Back, John R., assignor of one-half to F. E. Reed, Worcester, Mass. Metal-turning lathe	341,207	May 4	322	91	35	564
Backlund, Johan F., assignor to P. Ostberg, Stockholm, Sweden. Fire-bar for liquid-fuel furnaces	338,690	Mar. 30	2462	649, 650	34	1395
Backstrom Centrifugal Separator Company. (See Backstrom, C. Axel, assignor.)						
Backstrom, C. Axel, Trenton, assignor to Backstrom Centrifugal Separator Company, Camden, N. J. Centrifugal liquid-separator	355,049	Dec. 28	2030	533, 534	37	1404
Backstrom, C. Axel, Trenton, assignor to Backstrom Centrifugal Separator Company, Camden, N. J. Centrifugal liquid-separator	355,050	Dec. 28	2031	534	37	1404
Backstrom, Charles A., Trenton, N. J. Centrifugal liquid-separator	355,247	Dec. 28	2318	611	37	1461
Backstrom, Charles A., Trenton, N. J., assignor of one-half to C. D. Shepard, New York, N. Y. Centrifugal creamer	355,048	Dec. 28	2028	533	37	1403
Backstrom, Charles A., Brooklyn, assignor of one-half to C. D. Shepard, Mamaroneck, N. Y. Centrifugal liquid-separator	355,246	Dec. 28	2316	610	37	1461
Backus, Absalom, Jr., Detroit, Mich. Boiler-furnace	338,462	Mar. 23	2145	561	34	1335
Backus Manufacturing Company. (See Murray, Peter, Jr., assignor.)						
Backus, Quimby S., Winchendon, Mass. Combined bedstead and fire-place	334,504	Jan. 19	1437	386	34	280
Backus, Quimby S., Winchendon, Mass. Combined heating and cooking device	344,511	June 29	2481	637, 638	35	1485
Backus, Quimby S., Winchendon, Mass. Steam-heater	344,512	June 29	2483	639	35	1486
Backus, Quimby S., Winchendon, Mass. Oil-stove	344,513	June 29	2484	639	35	1486
Backus, Victor M., Indianapolis, Ind. Portable tank	344,932	July 6	189	48	36	35
Bacon, Clovis N., assignor of one-fourth to J. Smith, Boston, Mass. Steam-boiler and furnace	346,083	July 27	1831	473	36	351
Bacon, Earle C., assignor to Copeland & Bacon, New York, N. Y. Winch-engine	333,496	Jan. 5	2	1	34	3
Bacon, Earle C., New York, N. Y., assignor to Sea Island Chemical Company, Beaufort, S. C. Machine for washing phosphate rock	335,673	Feb. 9	820	218	34	594
Bacon, Henry S., Milford, Mass. Boot or shoe nailing machine	340,540	Apr. 27	2068	534	35	392
Bacon, Henry S., Milford, Mass. Boot and shoe nailing machine	355,117	Dec. 28	2126	558, 559	37	1423
Bacon, James E. (See Searles, Charles E., assignor.)						
Bacon, John H., assignor of one-half to A. D. Elwell, Philadelphia, Pa. Shelf-bracket	350,031	Sept. 28	2050	529	36	1453
Bacon, Murray, Philadelphia, Pa. Embroidery-frame	349,473	Sept. 21	12-6	334	36	1300
Bacon, Robert A., New York, N. Y. Light-regulator	337,548	Mar. 9	920	236	34	1098
Bacon, Walter R., London, England. Apparatus for the manufacture of blank tickets or cards	345,474	July 13	941	237	36	175
Bacon, Walter R., London, England. Printing-wheel	353,527	Nov. 30	2529	674	37	964
Badger Bros. (See Badger, William E., assignor.)						
Badger, Gardner F., Brooklyn, N. Y. Dredging apparatus	336,619	Feb. 23	2197	573, 574	34	850
Badger, George A., and W. F. Lakin, Quincy, Mass. Toy pistol	335,104	Feb. 2	5	2	34	441
Badger, Sheridan S., Chicago, Ill. Lemon-squeezer	334,212	Jan. 12	1024	272	34	198

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Badger, William E., assignor to Badger Bros., Quincy, Mass. Polishing-tool	342,493	May 25	2126	562	35	924
Badia, Joseph S., Philadelphia, Pa. Life-preserver	335,173	Feb. 2	118	30, 31	34	462
Badische Anilin and Soda Fabrik. (See Bohn, René, assignor.)						
Badische Anilin and Soda Fabrik. (See Bull and Müller, assignors.)						
Badische Anilin and Soda Fabrik. (See Kern, Alfred, assignor.)						
Badische Anilin and Soda Fabrik. (See Müller, Carl L., assignor.)						
Badische Anilin and Soda Fabrik. (See Schraube, Conrad, assignor.)						
Baer, Abraham L., Milwaukee, Wis. Index-book	343,420	June 8	962	240	35	1189
Baer, Adolphus, Zurich, Switzerland. Hydraulic ram	337,112	Mar. 2	305	80, 81	34	982
Baer, Gottlieb, Springfield, Mass. Cigar	348,814	Sept. 7	367	99	36	1116
Baer, Lucien, and D. Kraemer, New York, N. Y. Ornamental fabric	335,792	Feb. 9	1001	265	34	627
Baer, Lucien, and D. Kraemer, New York, N. Y. Wall-paper and other fabric	346,257	July 27	2079	534	36	399
Bagaley, Ralph. (See Garrett, Henry H., assignor.)						
Bagaley, Ralph, Pittsburg, Pa. Forging apparatus	350,338	Oct. 5	319	91	37	65
Bagby, Nathaniel, Mound Station, assignor of one-half to W. M. Cox, Mount Sterling, Ill. Car-coupling	334,410	Jan. 19	1305	353	34	256
Baggesen, Theodor, Strasburg, Alsace, Germany. Permanent way of railways	342,164	May 18	1636	437	35	829
Bailey, Albert H., Nashua, N. H. Thread-cleaning device for spooling-machines	345,475	July 13	942	237	36	175
Bailey, Andrew J. (See Ethridge, Martin V. B., assignor.)						
Bailey, Anna E., Chicago, Ill. Portable warming apparatus	352,386	Nov. 9	945	253	37	642
Bailey, Charles D., Hartland, Vt. Fender for vehicle-bodies	333,497	Jan. 5	3	2	34	3
Bailey, Charles E., Providence, R. I. Wire nail	340,692	Apr. 27	2283	601	35	427
Bailey, Ellene A., St. Charles, Mo. Needle	342,773	June 1	2	1	35	1007
Bailey, Farrell & Co. (See Franklin, Edward A., assignor.)						
Bailey, Frank M., assignor to Stanley Rule and Level Company, New Britain, Conn. Bench-plane	350,613	Oct. 12	725	197	37	140
Bailey, Franklin H., Hillsdale, assignor of one-half to Michigan School Furniture Company, Northville, Mich. Terrestro-sidereal globe	336,280	Feb. 16	1725	451	34	759
Bailey, Frederick A. (See Ingalls and Bailey.)						
Bailey, George P., Rochester, N. Y. Stencil-frame	351,149	Oct. 19	1500	392, 393	37	287
Bailey, Gilbert L., Portland, Me. Trunk-fastening	346,575	Aug. 3	159	43	36	490
Bailey, Henry D. W., Canton, Ohio. Grain-binder	350,965	Oct. 19	1219	323, 324	37	236
Bailey, James H., Leading Creek, W. Va. Chimney-protector	341,440	May 11	656	177	35	633
Bailey, James M. (See Carter, Robert A., assignor.)						
Bailey, Jefferson S. (See Howard, Charles H., assignor.)						
Bailey, John M., Waverly, Va., P. S. Rich, and J. Garfield, Worcester, Mass. Ensilage-cutting machine	341,309	May 4	483	131	35	592
Bailey, John S., Buckingham, Pa. Electric clock for transmitting signals	353,840	Dec. 7	266	71	37	1055
Bailey, Ledyard D., Central City, Nebr. Cigar-wrapper cutter	355,051	Dec. 28	2034	534	37	1404
Bailey, Leon O. (See Harbin, James W., assignor.)						
Bailey, Leonard, Hartford, Conn. Ribbon-inking attachment for type-writing machines	341,630	May 11	919	243	35	685
Bailey, Leonard, Hartford, Conn. Screw-driver	348,815	Sept. 7	368	100	36	1116
Bailey, Marcellus, (administrator of J. Young, deceased,) Washington, D. C. Producing currents of liquids in vacuo	352,287	Nov. 9	820	219, 220	37	616
Bailey, Reade W., assignor to Robinson-Rea Manufacturing Company, Pittsburg, Pa. Clutching device for metal-shears	350,713	Oct. 12	866	233	37	165
Bailey, Samuel T. (See Rich, Farr, and Bailey.)						
Bailey, Samuel W., and H. P. Vigars, Marquette, Mich. Rag or worsted worker	340,189	Apr. 20	1568	396	35	292
Bailey, Sterling L., Chicago, Ill. Heating apparatus	353,111	Nov. 23	1929	518	37	844
Bailey, Thomas. (See Lawson and Bailey.)						
Bailey, Thomas. (See Schevenell, Leonard, assignor.)						
Bailey, Thomas, New York, N. Y. Water-closet cistern	337,359	Mar. 9	640	169	34	1051
Bailey, Walter M., New York, N. Y. Apparatus for bending the ribs or frames of metallic ships	337,113	Mar. 2	306	81	34	983
Bailey, William E., Shrewsbury, Pa. Combined newspaper stand and file	341,208	May 4	324	92	35	565
Bailey, William H., New York, N. Y. Fire-escape	335,414	Feb. 2	458	118	34	523
Bailey, William H., Salford, county of Lancaster, England. Fusible plug	343,218	June 8	647	161	35	1133
Bailey, William H., Winchester, assignor to G. H. Wilbur, trustee, Malden, Mass. Malt-drier	346,344	July 27	2194	562, 563	36	420
Bailey, William L., L. T. and L. D. Knight, Calvert, Tex. Horse-collar	343,748	June 15	1438	358	35	1280
Bailhache, Gabriel. (See De Virloy, Commelin, and Bailhache.)						
Bailie, James. (See Duncan and Bailie.)						
Bailie, William L., and G. H. Mills, Baltimore, Md. Chronometer electric call	344,072	June 22	1866	479, 480	35	1367
Baillard, Charles L., Rouen, Department of Seine-Inférieure, France. Treating mineral oil	340,411	Apr. 20	1879	.....	35	350
Baillie, Charles, Montreal, Quebec, Canada. Folding-machine	337,914	Mar. 16	1384	359, 360	34	1188
Baily, Mifflin W., Pottstown, Pa. Stove-grate	341,209	May 4	325	92	35	565
Baily, Oscer W., Enterprise, Fla. Plant-protector	333,810	Jan. 5	428	116	34	80
Bain, Forée, Chicago, Ill. Dynamo-electric machine	337,041	Mar. 2	215	57	34	965
Bain, Forée, Chicago, Ill. Armature for dynamo-electric machines	337,042	Mar. 2	217	57	34	965
Bain, Forée, Chicago, Ill. Electric igniter for gas-engines	354,881	Dec. 28	1792	473	37	1361
Bainbridge, Henry C., Brooklyn, N. Y. Ornamental card	351,037	Oct. 19	1340	354	37	259
Baines, Hugh, Toronto, Ontario, Canada. Tricycle	334,839	Jan. 26	1884	502	34	371
Baines, Hugh, Toronto, Ontario, Canada. Velocipede	351,150	Oct. 19	1501	393	37	287
Baines, Hugh, Brooklyn, N. Y. Velocipede	351,243	Oct. 19	1623	426, 427	37	310
Baines, Hugh, Brooklyn, N. Y. Railway-car truck	352,028	Nov. 2	432	117, 118	37	539
Baines, John, Piqua, Ohio. Fence	351,244	Oct. 19	1626	427	37	311
Bair, Alvin. (See Copper and Bair.)						
Baird, Albert W. (See Miller, James W., assignor.)						
Baird, Andrew J., Van Orin, assignor of one-half to M. Buhler, Lamoille, Ill. Cultivator or plow	346,139	July 27	1914	494	36	367
Baird, Frederick C. (See Prindle and Baird.)						
Baird, G. Edward, Urbana, Ill. Grain weighing and registering apparatus	349,971	Sept. 28	1967	508, 509	36	1438
Baird, George D., assignor of two-thirds to C. A. Taylor and W. E. Littlefield, Peoria, Ill. Grain-weigher	355,248	Dec. 28	2230	611	37	1462
Baird, George W., Washington, D. C. Pneumatic indicator	343,530	June 8	1107	279	35	1215

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Baird, John, New York, N. Y. Steam-boiler	334,156	Jan. 12	931	251, 252, 253	34	180
Baird, John V., Springfield, Ohio. Gate	349,474	Sept. 21	1287	334, 335	36	1300
Baird, William, Almonte, Ontario, Canada. Spinning and twisting machine	341,631	May 11	921	244	35	685
Baird, William F., Burlington, Iowa. Picket-fence	338,818	Mar. 30	2650	698	34	1429
Baird, William R. (See Crawford, Middleton, assignor.)						
Bairstow, John, and T. E. Keavy, Kent; said Bairstow assignor, by mesne assignments, to A. A. Tillitson, Akron, Ohio. Button-setting instrument	336,832	Feb. 23	2480	652	34	903
Baiter, Theodore C. (See Richardson and Baiter.)						
Baker, Abner D., and F. P. Hyck, Swanton, assignors of two-thirds to J. F. Seiberling, Akron, and A. E. Roberts, Norwalk, Ohio. Rotary engine	344,339	June 29	2234	575, 576	35	1441
Baker, Alvira, Mitchell, Ind. Dress-maker's chart	349,198	Sept. 14	906	233	36	1218
Baker, Andrew C., Albion, Mich. Wheel-cultivator	349,972	Sept. 28	1069	509	36	1439
Baker, Arthur D., and W. H. Oren, South Bend, Ind. Hand seeding-machine	352,673	Nov. 16	1322	356	37	719
Baker, Barney S., Springfield, Ohio. Eaves-trough and girder therefor	354,372	Dec. 14	1059	283	37	1037
Baker, Benjamin F., Fairville, New Brunswick, Canada. Spool-holder	343,749	June 15	1439	359	35	1280
Baker, C. D., *et al.* (See Cragin, George P., assignor.)						
Baker, Charles H., Meadville, Pa. Slide-valve	336,980	Mar. 2	129	35	34	949
Baker, Charles H., Meadville, Pa. Gas-pressure regulator	341,544	May 11	801	214	35	661
Baker, Clarence E. (See Baker, Morris C. and C. E.)						
Baker, Daniel B., Rising Sun, Ohio. Hame-fastener	348,711	Sept. 7	245	65	36	1092
Baker, Edgar J., *et al.* (See Curry, James H., assignor.)						
Baker, Edgar J., Tiffin, Ohio. Sad-iron	347,148	Aug. 10	933	249	36	645
Baker, Edward E., Morgantown, W. Va. Paper-file	338,909	Mar. 30	2784	733, 734	34	1453
Baker, Edward E., Morgantown, W. Va. File-box for documents	339,254	Apr. 6	203	52	35	38
Baker, Edward E., Morgantown, W. Va. Letter and document file	347,762	Aug. 24	1821	485	36	825
Baker, Edwin M., Crayon, Ohio. Fence	353,437	Nov. 30	2398	640	37	940
Baker, Ellis B., *et al.* (See Hilton, Charles H., assignor.)						
Baker, Ellis L. (See Bates, Franklin P., assignor.)						
Baker, Francis R., assignor to J. Cadbury, Birmingham, county of Warwick, England. Glove-fastener	340,852	Apr. 27	2495	657	35	466
Baker, Frank E., Akron, Ohio. Tea-pot and coffee-pot handle	347,021	Aug. 10	745	198	36	610
Baker, Frank E., Akron, Ohio. Coffee-pot	349,199	Sept. 14	907	233	36	1218
Baker, Frank M., assignor to M. Cohn & Co., New York, N. Y. Forming and finishing the edges of the front sections of corsets	343,421	June 8	962	240	35	1189
Baker, Fred A., Roann, Ind. Windmill	352,108	Nov. 9	562	149	37	571
Baker, Fredrick A., Cayuga, N. Y. Spring for thill-couplings	343,750	June 15	1439	359	35	1281
Baker, George B. (See Burk, Marshall B., assignor.)						
Baker, George H., *et al.* (See Drew, Charles E., assignor.)						
Baker, George H., Morenci, Mich. Curtain-fixture	337,043	Mar. 2	217	57	34	965
Baker, George S., London, England. Machine for baking sugar-wafer cakes, &c	353,837	Dec. 7	260	70	37	1054
Baker, Grant G., *et al.* (See Baker, John, assignor.)						
Baker, Haydn M., Brooklyn, N. Y. Resorcin-blue compound	348,816	Sept. 7	369	.....	36	1116
Baker Heater Company. (See Baker, William C. assignor.)						
Baker, Henry D. (See Panyard, Joseph, assignor.)						
Baker, Henry F., Joshua, Tex. Fire-place blower	354,173	Dec. 14	773	207	37	1154
Baker, Jacob M., Boston, Mass., assignor to Indented Paper Company, Portland, Me. Carpet-lining	347,763	Aug. 24	1822	485	36	825
Baker, Jacob W., and G. A. Prescott, Dover, N. J. Car-coupling	353,838	Dec. 7	263	70	37	1055
Baker, James H., Westville, Ohio. Die and die-block for forge-hammers. (Reissue)	10,680	Jan. 26	2241	594	34	434
Baker, James M., Freeport, Ill. Carriage-curtain fastening	333,811	Jan. 5	429	117	34	81
Baker, John. (See Morgan and Baker.)						
Baker, John, Hillside, Dak. Ter. Nut-lock	347,764	Aug. 24	1823	485	36	825
Baker, John, assignor of two-thirds to G. G. Baker and T. A. Long, Sweet Valley, Pa. Lifting-jack	348,817	Sept. 7	371	100	36	1116
Baker, John G., Philadelphia, Pa. Spring-gun	343,560	June 15	1161	293	35	1255
Baker, John G., assignor to Enterprise Manufacturing Company, Philadelphia, Pa. Meat-cutting machine	339,833	Apr. 13	1067	265	35	196
Baker, John G., assignor to Enterprise Manufacturing Company, Philadelphia, Pa. Machine for cutting meat	339,834	Apr. 13	1068	266	35	196
Baker, John W., Philadelphia, Pa. Gas-stove	349,779	Sept. 28	1718	443	36	1389
Baker, John W., Philadelphia, Pa., assignor to Regenerative Gas Light Company, Camden, N. J. Gas-lamp	334,328	Jan. 12	1190	320	34	229
Baker, Joseph, Andover, N. H. Hame attachment	343,726	May 25	2465	653	35	986
Baker, Joseph and J. A., London, England. Mixing, sifting, and cleaning machine	343,759	June 15	1482	373	35	1289
Baker, Joseph, J. A., and W. K., London, England. Whisk or mixer	343,790	June 15	1484	373	35	1289
Baker, Joseph A. (See Baker, Joseph and J. A.)						
Baker, Joseph A. (See Baker, Joseph, J. A., and W. K.)						
Baker, Joseph G., Fernwood, Pa. Pipe and rod vise	342,992	June 1	299	77	35	1061
Baker, Joseph G., Fernwood, Pa. Pipe and rod vise	348,818	Sept. 7	372	100	36	1116
Baker, Mattie J., San José, Cal. Ironing-table	336,077	Feb. 16	1406	373	34	705
Baker, Milton H., *et al.* (See Lawrence, John R., assignor.)						
Baker, Morris C. and C. E., Mitchell, Dak. Ter. Apparatus for sinking wells	350,339	Oct. 5	321	91	37	65
Baker, Nelson. (See Currin, John, assignor.)						
Baker, Philander, Roxbury, Mass. Elevator	349,074	Sept. 14	739	188	36	1186
Baker, Richard J., Providence, R. I. Drill-stock	354,085	Dec. 14	629	172	37	1130
Baker, Robert. (See Mathewson, Sebra R., assignor.)						
Baker, Scipio E., assignor to Springfield Metallic Burial Casket Company, Springfield, Ohio. Coffin	342,242	May 18	1732	460	35	846
Baker, Scipio E., assignor to Springfield Metallic Casket Company, Springfield, Ohio. Metallic coffin	353,772	Dec. 7	164	46	37	1037
Baker, Seth, Colorado Springs, Colo. Coffin-platform for graves	349,421	Sept. 21	1213	315	36	1286
Baker, Simeon, assignor of one-half to B. J. Rhodes, San José, Cal. Car-starter	353,345	Nov. 30	2257	603	37	912
Baker & Sons, Joseph. (See Morton, Robert, assignor.)						
Baker, Walter, Ilion, N. Y. Polishing-wheel	343,621	June 15	1248	314	35	1247
Baker, Warren J., *et al.* (See Hardenbergh, Henry D., assignor.)						
Baker, William A., New Matamoras, Ohio. Speed-regulator for shafts of circular saws, &c.	334,329	Jan. 12	1191	320	34	229
Baker, William C., assignor to Baker Heater Company, New York, N. Y. Heating apparatus for railway-cars	353,839	Dec. 7	264	71	37	1055
Baker, William H., assignor of two-thirds to W. J. and C. F. Tunstead, Oxford, Mich. Draft-equalizer	346,798	Aug. 3	424	117	36	543

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Baker, William K. (See Baker, Joseph, J. A., and W. K.)						
Baker, William L. (See Spalding, Frank D., assignor.)						
Baker, William N., assignor of one-half to T. J. Ream, Damascus, Ohio. Nut-lock	346,452	Aug. 3	3	2	36	461
Baker, William R., Chicago, Ill. Grain-binding harvester	342,165	May 18	1636	437 438	35	829
Baker, William R., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Grain-binder	339,128	Apr. 6	9	4	35	5
Baker, William R., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Harvester	343,147	June 1	538	136 137	35	1104
Baker, William R., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Harvester-wheel	343,148	June 1	540	137	35	1104
Baker, William R., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Harvester-dropper	349,267	Sept. 14	998	255	36	1236
Baker, William R., and H. E. Pridmore, Chicago, Ill. Grain-binder	351,353	Oct. 26	1776	467	37	343
Baker, William R., and H. E. Pridmore, assignors to McCormick Harvesting Machine Company, Chicago, Ill. Grain-binder	339,518	Apr. 6	589	140 141 142	35	107
Baker, William S. G., Baltimore, Md. Car-truck	354,964	Dec. 28	1908	503	37	1383
Bakewell, Paul. (See Furrell, Edward W., assignor.)						
Bakewell, Paul. (See Ramel and Dean, assignors.)						
Bakewell, William H., Allegheny, Pa. Awning-pulley	346,084	July 27	1832	473	36	351
Balch, Charles J., East Minneapolis, Minn. Device for setting saws	338,693	Mar. 30	2467	651	34	1397
Baldauf, Louis, Mequon, Wis. Washing-machine	335,735	Feb. 9	916	241	34	612
Baldridge & Co., A. (See Jacobus, Pierson, assignor.)						
Baldrige, George W., St. Louis, Mo. Telegraph-transmitter	338,691	Mar. 30	2463	650	34	1396
Baldrige, George W., St. Louis, Mo. Type-writing machine	339,129	Apr. 6	13	4, 5	35	5
Baldrige, George W., St. Louis, Mo. Key-board for type-writing machines	345,565	July 13	1099	280	36	203
Baldrige, George W., and G. H. Lasar, St. Louis, Mo.; said Lasar assignor to said Baldrige. Escapement for type-writers	344,933	July 6	190	49	36	35
Baldwin, Byron, New York, N. Y., assignor to Thomson, Langdon & Co. Manufacturing corsets	341,869	May 18	1242	332	35	756
Baldwin, Byron, New York, N. Y., assignor to Thomson, Langdon & Co. Nursing-corset	341,870	May 18	1242	332 333	35	756
Baldwin, Charles E., assignor to W. B. Shryock, New York, N. Y. Alarm cash-indicator and check-receiver	337,915	Mar. 16	1387	360	34	1188
Baldwin, Charles E., assignor to E. P. Stewart, New York, N. Y. Dice-throwing attachment for cigar-cutters	346,453	Aug. 3	4	2	36	461
Baldwin, Charles E., Philadelphia, Pa., assignor to M. V. Wagner, Marshall, Mich. Electric therapeutic instrument	353,346	Nov. 30	2258	604	37	912
Baldwin, Chester M., assignor of three-fourths to S. Holmes, M. E. Bissell, and C. H. Warren, Bronson, Mich. Car-coupling	336,466	Feb. 16	1982	519	34	806
Baldwin, Cyrus W., Yonkers, N. Y., assignor to Hydraulic Elevator Company, Chicago, Ill. Valve-operating device for elevators	352,797	Nov. 16	1485	400	37	751
Baldwin, Cyrus W., Yonkers, N. Y., assignor to W. E. Hale, Chicago, Ill. Electric igniter for gas-engines	352,796	Nov. 16	1484	400	37	751
Baldwin, Daniel M., assignor to Canfield Rubber Company, Bridgeport, Conn. Diaper	342,494	May 25	2128	562	35	934
Baldwin, Frank S., assignor to Hydraulic Press Brick Company, St. Louis, Mo. Hydraulic brick-machine	342,061	May 18	1499	400 401	35	802
Baldwin, George H., Grand Summit, Kans. Broom-machine	343,977	June 22	1725	443	35	1343
Baldwin, Henry R. (See Housholder, Henry L., assignor.)						
Baldwin, Ivy, San Francisco, Cal. Stool and seat	354,298	Dec. 14	962	255	37	1188
Baldwin, John J., Syracuse, N. Y. Door-hanger	350,860	Oct. 12	1078	288	37	204
Baldwin, John R., trustee. (See Collyer, Charles W., assignor.)						
Baldwin, John W., assignor to G. A. Fullerton, Boston, Mass. Apparatus for distributing bronze or other powders	351,483	Oct. 26	2004	521	37	384
Baldwin, Joseph F., Cambridge, Mass. Apparatus for malting and drying	350,472	Oct. 12	527	147	37	105
Baldwin, Louis W., Jersey City, N. J. Engine for running sewing-machines	333,719	Jan. 5	311	85	34	58
Baldwin, Luther C., Manchester, N. H. Machine for painting bobbins, &c	338,380	Mar. 23	2035	534	34	1314
Baldwin, Luther C., Manchester, N. H. Window-fastening	342,774	June 1	2	1	35	1007
Baldwin, Miller & Co. (See Pyle, William M., assignor.)						
Baldwin, Nathaniel B., Hyde Park, Ill. Musical toy	350,521	Oct. 12	591	164	37	114
Baldwin, Philander. (See Gould and Baldwin.)						
Baldwin, Rollin A., Manchester, N. H. Apparatus for operating the check-reins of harness	351,846	Nov. 2	173	47	37	490
Baldwin, Silas D., Chicago, Ill. Superheating gas-burner	352,509	Nov. 16	1094	295 296	37	679
Baldwin, Willis, assignor to Lockwood, Baldwin & Co., Hunter, N. Y. Folding settee	346,454	Aug. 3	5	2	36	461
Bales, Thomas M., and S. O. Leeson; said Bales assignor to A. Southworth, Dublin, Ind. Door-bell	351,245	Oct. 19	1627	427	37	311
Ball, A. E. (See Bradshaw, Ira H., assignor.)						
Ball, Albert, Canton, Ohio. Combined roller and harrow	339,130	Apr. 6	17	6	35	6
Ball, Albert, assignor to Sullivan Machine Company, Claremont, N. H. Adjustable rock-drill frame	351,564	Oct. 26	2116	548	37	406
Ball, Albert, assignor to Sullivan Machine Company, Claremont, N. H. Piston	351,565	Oct. 26	2117	548	37	407
Ball, Albert, assignor to Sullivan Machine Company, Claremont, N. H. Rock-boring machine	351,566	Oct. 26	2119	548 549	37	407
Ball, Alice M., *et al.* (See Gardner, Marshall, assignor.)						
Ball, Alice M., *et al.* (See Stone, James, assignor.)						
Ball, Alice M., *et al.* (See Stone and Gardner, assignors.)						
Ball, Alonzo. (See Duffy and Ball.)						
Ball, Charles E., New York, N. Y. Digester for paper-pulp	336,078	Feb. 16	1407	373	34	706
Ball, Clinton M., Troy, assignor to Vitrite and Luminoid Company, Watervliet, N. Y. Making incandescents	346,345	July 27	2195	.....	36	420
Ball, Edward W., and C. A. Fletcher, Worcester, Mass. Oil-stove	348,094	Aug. 24	2303	617	36	914
Ball, Jacob, Waterloo, Ontario, Canada. Automatic weighing-scale	338,654	Mar. 23	2399	632	34	1379
Ball, James, assignor to Holyoke Envelope Company, Holyoke, Mass. Envelope-machine	344,073	June 22	1868	480 481	35	1368
Ball, James, assignor to Holyoke Envelope Company, Holyoke, Mass. Paper-cutting machine	352,848	Nov. 16	1547	418	37	762
Ball, John A., Grass Valley, Cal. Plow	352,849	Nov. 16	1548	418	37	763
Ball, Joseph O., Springfield, Mass. Welding compound	353,112	Nov. 23	1931	.....	37	844
Ball, Lorenzo D., and J. T. Bender, Canton, Ohio. Plow	343,561	June 15	1163	293	35	1233
Ball, Lorenzo D., and J. T. Bender, Canton, Ohio. Rolling colter	352,510	Nov. 16	1096	296	37	679
Ball, Madison H., Madison, Wis. Heating attachment for stoves	352,730	Nov. 16	1396	378	37	735

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Ball, Phineas. (See Duffy and Ball, assignors.)						
Ball, Royal E., New York, N. Y. Dynamo-electric machine	336,780	Feb. 23	2414	635	34	891
Ball, Royal E., New York, N. Y. Regulator for dynamo-electric machines	338,333	Mar. 23	1961	516	34	1303
Ball, Royal E., New York, N. Y. Dynamo-electric machine	338,692	Mar. 30	2465	679, 651	34	1396
Ball, Royal E., New York, N. Y. Dynamo-electric machine	338,910	Mar. 30	2785	734	34	1453
Ball, Sarah E., Brooklyn, N. Y. Combined work table and basket	348,373	Aug. 31	2701	725	36	996
Ball, Silas W., assignor of one-half to J. L. Spangler, Canton, Ohio. Rolling colter	337,295	Mar. 2	558	147	34	1029
Ball, Thomas W., *et al.* (See Kenton, Levi C., assignor.)						
Ball, Warren J., Salem, Ohio. Plow	354,086	Dec. 14	630	172	37	1130
Ballard, John K., Grayling, Mich. Gun-barrel	337,916	Mar. 16	1388	360	34	1189
Ballentine, John C., assignor of one-half to J. R. Mills, Thornton, Tex. Car-coupling	335,875	Feb. 9	1109	293	34	647
Balletto, Lewis, New York, N. Y. Boat steering and coupling apparatus	344,612	June 29	2610	676	35	1512
Ballin, Fred. A. (See Smith and Ballin.)						
Ballou, John, Somerville, Mass. Necktie fastener	352,109	Nov. 9	563	149	37	571
Ballou, Russell A., Newton, Mass., assignor to Chemical Hand Fire Extinguisher Company, Portland, Me. Chemical fire-extinguisher	338,242	Mar. 23	1837	483	34	1281
Ballou, Russell A., Newton, Mass., assignor to Chemical Hand Fire Extinguisher Company, Portland, Me. Chemical fire-extinguisher	348,095	Aug. 24	2305	618	36	915
Ballou, Russell A., Newton, Mass., assignor to Chemical Hand Fire Extinguisher Company, Portland, Me. Faucet for chemical fire-extinguishers	348,096	Aug. 24	2306	618	36	915
Ballou, Russell A., Newton, Mass., assignor to Chemical Hand Fire Extinguisher Company, Portland, Me. Chemical fire-extinguisher	354,617	Dec. 21	1423	377	37	1278
Balmer, Abraham, Bluffton, Ohio. Pen for swine	349,200	Sept. 14	908	233	36	1218
Baltes, Joseph. (See Richards, Valentine W. A., assignor.)						
Baltimore and Ohio Telegraph Company. (See Larish, Joseph W., assignor.)						
Baltimore and Ohio Telegraph Company. (See Maver, William, Jr., assignor.)						
Baltimore Chrome Works. (See Simon, William, assignor.)						
Baltimore, John T., and J. F. Paddleford, Nora Springs, Iowa. Swinging gate	337,360	Mar. 9	641	169	34	1051
Bamberger, J. Henry. (See Bonchy and Bamberger.)						
Bammerlin, Leonard, Massillon, Ohio. Steamer	351,685	Oct. 26	2208	596	37	440
Bancroft, George, and J. H. Horsfall, assignors of one-third to G. S. Jones, Montreal, Quebec, Canada. Apparatus for canceling stamps	345,566	July 13	1100	281	36	203
Bancroft, J. Sellers, assignor to W. Sellers, Philadelphia, Pa. Machine for pointing drills	337,549	Mar. 9	921	236	34	1098
Bancroft, J. Sellers, and W. Lewis, assignors to W. Sellers & Company, (incorporated,) Philadelphia, Pa. Governor for steam-engines	354,033	Dec. 7	556	151	37	1108
Bancroft, John A., Worcester, Mass. Street-sprinkler	353,729	Dec. 7	111	30, 31	37	1027
Bancroft, Major A., assignor of one-half to I. E. Youngblood, Blunt, Dak. Ter. Printing	351,618	Oct. 26	2203	569, 570	37	421
Bancroft, Major A., assignor of one-half to I. E. Youngblood, Blunt, Dak. Ter. Printing	351,686	Oct. 26	2209	596, 597	37	440
Bancroft, Major A., assignor of one-half to I. E. Youngblood, Blunt, Dak. Ter. Printing	355,118	Dec. 28	2128	559	37	1424
Bane, William H., Gallipolis, Ohio. Screening or bolting machine	342,166	May 18	1639	438	35	829
Banes, Charles H. (See Hering, Carl, assignor.)						
Banford, John J., *et al.* (See Knowles, Mortimer L., assignor.)						
Bandy, Oliver L., La Salle, Ill. Folding cradle	345,098	July 6	416	107	36	76
Banfill, William C., Ipswich, Mass. Burr for knitting-machines	347,986	Aug. 24	2149	572	36	885
Bangs, Charles H., Cambridgeport, Mass. Book or show case	351,354	Oct. 26	1778	467, 468	37	343
Bangs, David E., Medford, Mass. Grate for stoves, furnaces, &c	352,029	Nov. 2	435	118	37	540
Banister, George, Warren, Vt. Spring for vehicles	336,543	Feb. 23	2083	547	34	830
Banker, George W., Brooklyn, N. Y. Faucet for oil-cans	341,210	May 4	326	92	35	565
Banks, Charles M., deceased, (E. J. Banks, administrtrix,) assignor of one-fourth to S. W. Mintzer, Philadelphia, Pa. Baby-carriage	341,824	May 11	1176	314	35	735
Banks, Charles W., Baltimore, Md., assignor, by mesne assignments, of one-half to G. G. Thomson, Philadelphia, Pa. Portable wardrobe	346,346	July 27	2197	563	36	420
Banks, Darius, Morrisville, Pa. Half-sole for boots or shoes	351,953	Nov. 2	324	90	37	518
Banks, Darius, Morrisville, Pa. Mold for soles and heels of boots or shoes	353,617	Nov. 30	2670	715	37	990
Banks, Ella J., administratrix. (See Banks, Charles M.)						
Banks, John C., *et al.* (See Clark, William W., assignor.)						
Banks, Joseph H., New York, N. Y. Steam-trap	352,387	Nov. 9	945	253	37	642
Banks, Lyman, Muscatine, Iowa. Convertible cot and seat	339,131	Apr. 6	18	6	35	6
Banks, Robert H., Fort Lewis, Colo. Land-channeling roller	334,213	Jan. 12	1025	273	34	198
Banks, William, and S. Brierley, Bolton, county of Lancaster, England. Machine for singeing cloth	353,194	Nov. 23	2055	548	37	869
Banks, William W., Pottstown, and J. Irwin, North Coventry, Pa. Machine for forming dough for bretzels	342,559	May 25	2218	590	35	941
Bannan, John M., Chetopa, Kans. Reel	336,885	Mar. 2	3	1	34	927
Bannister, Burr, Kalamazoo, Mich. Truss	354,034	Dec. 7	559	151	37	1108
Bannister, Burr, Kalamazoo, Mich. Truss pad	354,035	Dec. 7	560	152	37	1108
Bannister, Lemuel, Philadelphia, Pa. Collecting waste gas from leaks at the joints of gas-conduits	336,199	Feb. 16	1597	419	34	738
Bannister, Oliver C., assignor of one-half to T. J. Evans, Council Bluffs, Iowa. Rocking grate	346,455	Aug. 3	6	2	36	462
Banta, Henry J., Logansport, Ind. Automatic brake for vehicles	339,255	Apr. 6	204	52	35	38
Baragar, Winfield S. (See Lour and Baragar.)						
Barbé, Joseph, E. Fauvel, and P. Chalon, Paris, France. Safety-valve	350,285	Oct. 5	250	73	37	52
Barber, Adin M., Bridgeport, Conn., assignor to Diamond Saw Company, Boston, Mass. Saw-frame	342,560	May 25	2219	590	35	941
Barber, Alonzo, assignor of one-half to J. Loffler, Bentonsport, Iowa. Paint-brush	348,508	Aug. 31	2893	778	36	1032
Barber, Amzi L., assignor to Barber Asphalt Paving Company, Washington, D. C. Concrete pavement	338,381	Mar. 23	2036	534	34	1315
Barber, Amzi L., assignor to Barber Asphalt Paving Company, Washington, D. C. Construction of concrete pavements	338,382	Mar. 23	2037	534	34	1315
Barber Asphalt Paving Company. (See Barber, Amzi L., assignor.)						
Barber Asphalt Paving Company. (See Greene, Francis V., assignor.)						
Barber Asphalt Paving Company, *et al.* (See Alexander, Robert, assignor.)						
Barber, Deloss T., Gustavus, Ohio. Hoof-trimming tool	350,340	Oct. 5	323	92	37	65
Barber, Edward F., Ionia, Mich. Boiler attachment	350,099	Oct. 5	7	2	37	4
Barber, Edwin J., and T. F. White, Salem, Kans. Windlass	348,446	Aug. 31	2806	754	36	1017
Barber, Frederic A. (See Côté, Louis, assignor.)						
Barber, Ira, and J. F. Croft, La Porte, Ind. Two-wheeled vehicle	342,993	June 1	300	77	35	1061
Barber, James T., Hannibal, Mo. Device for binding together lumber	338,334	Mar. 23	1962	516	34	1303
Barber, Moses, and S. P. Weeks, South Coventry, Conn. Lap-feeding mechanism for carding-machines	349,201	Sept. 14	909	234	36	1218

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Barber, Richard H., Galena, Kans. Automatic stock water-tank	346,702	Aug. 3	316	87	36	523
Barber, Thurston B., Norwich, Conn. Stump or stone puller	337,114	Mar. 2	309	81	34	983
Barber, Varnum T. (See Young and Barber.)						
Barber, William E., Wyoming, R. I. Rein-holder	334,067	Jan. 12	795	218	34	156
Barber, William E., Wyoming, R. I. Trace-fastening	347,149	Aug. 10	934	249	36	645
Barber, William W., Ruthven, Iowa. Dust-protector for the attendants of thrashing-machines. (Reissue)	10,724	May 18	1854	491	35	868
Barbero, Robert C., *et al.* (See Harris, Noah, assignor.)						
Barclay, James, Erie, Pa. Chill for use in casting cross-heads	348,819	Sept. 7	373	101	36	1117
Barclay, William P., Chicago, Ill. Shaping-tool	349,475	Sept. 21	1289	335	36	1301
Barcus, William W. (See Duthie, George H., assignor.)						
Bard, Cephas L., San Buenaventura, Cal. Check-rein attachment	345,404	July 13	840	210	36	176
Bard, Cephas L., San Buenaventura, Cal. Rein-guard	352,674	Nov. 16	1323	356	37	720
Barden, Emmet T., Wausau, Wis. Machine for making sewer-pipes of clay, &c.	347,457	Aug. 17	1377	366	36	734
Barden, George F., Vineland, N. J., assignor of one-half to L. L. Brown Paper Company, Adams, Mass. Combined entry and blotter sheet	346,703	Aug. 3	318	87	36	523
Barden, John S., Warren, assignor to J. O. Draper, Pawtucket, R. I. Piston-meter	336,032	Feb. 9	1328	351 / 352	34	685
Barden, John S., Warren, assignor to J. O. Draper, Pawtucket, R. I. Vibrating-cylinder engine	348,097	Aug. 24	2307	618	36	915
Barden, Merritt C., West Pawlet, Vt. Apparatus for automatically feeding liquids to evaporators	337,227	Mar. 2	457	119 / 120	34	1011
Barden, Merritt C., West Pawlet, Vt. Cream-separator	345,874	July 20	1541	398	36	288
Bardo, Peter N., and T. Ford, Newport, Ky. Hydrant	352,288	Nov. 9	822	220	37	616
Bardon, Prosper, Waco, Tex. Means for effecting upward draft in privies, commodes, &c.	351,731	Nov. 2	3	1	37	459
Bardon, Prosper, Waco, Tex. Commode	352,388	Nov. 9	948	254	37	642
Bardsley, Joseph, Newark, N. J. Cloak-rack	340,753	Apr. 27	2371	624 / 625	35	443
Bardsley, Joseph, Newark, N. J. Knob attachment	350,714	Oct. 12	867	225	37	165
Bardsley, William, Kearney, N. J. Hatchway	341,632	May 11	922	244	35	685
Bare, John, Mount Union, Pa., assignor to R. B. Bare, Washington, D. C. Nut-lock	342,994	June 1	300	77	35	1061
Bare, Robert B. (See Bare, John, assignor.)						
Baring-Gould, Arthur. (See Duncan, James E., assignor.)						
Barkdull, Lucien H., Chicago, Ill. Preparing mineral waters for transportation	344,708	June 29	2727	.....	35	1533
Barkelew, Hiram A., Jr. (See Richardson and Barkelew.)						
Barker, Albert A., assignor of one-half to N. G. Tucker & Son, Worcester, Mass. Apparatus governed by electricity for flushing water-closets	342,495	May 25	2129	563 / 564	35	924
Barker, Augustus M., *et al.* (See Tyler, George, assignor.)						
Barker, Erastus B. (See Lewis and Barker.)						
Barker, Erastus B., assignor to E. & H. T. Anthony & Co., New York, N. Y. Roller for photographic sensitive paper	341,633	May 11	924	245	35	686
Barker, Erastus B., assignor to E. & H. T. Anthony & Co., New York, N. Y. Holder for photographic paper negatives	343,357	June 8	870	219	35	1172
Barker, Erastus B., assignor to E. & H. T. Anthony & Co., New York, N. Y. Photographic camera	348,712	Sept. 7	246	65, 66	36	1092
Barker, George F., Lowell, Mass. Shaft-coupling	335,052	Dec. 28	2034	534	37	1405
Barker, Henry C., assignor of three-fourths to R. K. Allen, N. D. Goff, and I. W. Hayden, St. Joseph, Mo. Dry-press brick-machine	351,567	Oct. 26	2122	549 / 550	37	408
Barker, J. S., *et al.* (See Houlehan, James, assignor.)						
Barker, John F., Springfield, Mass. Rotary air-pump	341,871	May 18	1243	333	35	756
Barker, John R., Chicago, Ill. Draft-regulator for hot-air furnaces	344,559	June 29	2545	657 / 658	35	1498
Barker, John R., Chicago, Ill. House-heating device	352,908	Nov. 23	1636	439	37	789
Barker, Lester S. (See Guthrie and Peterson, assignors.)						
Barker, Milan S., Wellington, Kans. Cartridge-holder	344,152	June 22	1975	505	35	1387
Barker, Orson, Braidwood, Ill. Self-lubricating car-wheel	338,694	Mar. 30	2468	651	34	1397
Barler, Augustus C., Des Moines, Iowa. Damper for stove-pipes and hot-air flues	348,947	Sept. 14	561	149	36	1156
Barley, A. M., *et al.* (See Fisher, Anson F., assignor.)						
Barley, A. M., *et al.* (See Pulliam, William J., assignor.)						
Barley, James H., Sedalia, Mo. Combined horse-rake and carrier-truck	337,228	Mar. 2	460	120	34	1011
Barley, James H., Sedalia, Mo., assignor of one-half to G. Ferrell, Wichita, Kans. Blotter	335,674	Feb. 9	820	219	34	594
Barley, James H., assignor of one-half to T. K. Barley, Sedalia, Mo. Harrow	339,835	Apr. 13	1069	266	35	196
Barley, James H. and T. K., Sedalia, Mo. Hay-stacker	355,119	Dec. 28	2129	559 / 560	37	1424
Barley, Thomas K. (See Barley, James H., assignor.)						
Barley, Thomas K. (See Barley, James H. and T. K.)						
Barling, Albert, Racine, Wis. Spring for vehicles	354,672	Dec. 21	1503	398	37	1293
Barlow, Charles K., Poughkeepsie, N. Y. Dental-instrument rubber cover	336,781	Feb. 23	2415	635	34	892
Barlow, Charles K., Poughkeepsie, N. Y. Rein-handle	338,581	Mar. 23	2298	602	34	1361
Barlow, Charles O., San Francisco, Cal. Rock-drill	344,892	July 6	138	31	36	25
Barlow, George W., New York, N. Y. Soluble laundry-blue	351,484	Oct. 26	2005	.....	37	384
Barlow, John W., Lawrence, Mass. Loom-picker	339,836	Apr. 13	1072	267	35	197
Barnaby, Charles W., assignor of one-half to Buckeye Engine Company, Salem, Ohio. Steam-engine valve	340,541	Apr. 27	2069	534	35	392
Barnaby, Charles W., assignor of one-half to Buckeye Engine Company, Salem, Ohio. Steam-engine indicator	343,291	June 8	756	188 / 189	35	1152
Barnard, Andrew B., Kansas City, Mo. Lock for freight-car doors	334,840	Jan. 26	1886	502	34	371
Barnard Attachment Company. (See Barnard, Henry H., assignor.)						
Barnard, Edward, Rome, N. Y. Hame-clip	334,411	Jan. 19	1305	353	34	256
Barnard, Edward, Rome, N. Y. Harness-loop	341,717	May 11	1039	275	35	709
Barnard, George D. (See Shock, Floyd, assignor.)						
Barnard, George E. (See Hodges, Samuel H., assignor.)						
Barnard, Henry A., assignor of one-half to S. L. Wheeler, Plattsburg, N. Y. Car-coupling	353,773	Dec. 7	165	46	37	1037
Barnard, Henry H., assignor to Barnard Attachment Company, Syracuse, N. Y. Button-hole cutter	346,977	Aug. 10	680	181	36	599
Barnard, William G., Bellaire, Ohio. Apparatus for loading coal	333,585	Jan. 5	119	33	34	25
Barnard, William H., and C. E. Benedict, Los Angeles, Cal. Orange-peel separating and shredding machine	349,075	Sept. 14	741	189	36	1186
Barnes, Andrew N., and C. L. Edmonds, Rondout, N. Y. Holder for bags, &c.	341,545	May 11	802	214	35	662
Barnes, Arthur J., Detroit, Mich. Wrench	344,301	June 22	2184	560	35	1425
Barnes, Avon, and P. B. Cunningham, assignors of one-third to J. Barnes, Allentown, Pa. Combined shutter-fastener and shutter-bower	352,439	Nov. 9	1010	272	37	655
Barnes, Benjamin F., assignor to W. F. & J. Barnes Company, Rockford, Ill. Belt-gearing	354,849	Dec. 21	1739	461	37	1339

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Pages.
Barnes, Brown M., and C. E. Shapley, Dryden, N. Y. Adding-machine	344,025	June 22	1794	462	35	1354
Barnes, Carlos M., Enosburg, Vt. Electric alarm	344,233	June 22	2089	534	35	1408
Barnes, Charles, Dayton, Ky. Rotary fan	339,837	Apr. 13	1074	267	35	197
Barnes, Charles O. and L. Barnes, Sr., Syracuse, N. Y. Car-coupling	335,675	Feb. 9	823	219	34	594
Barnes, Charles O. and L., Sr., Syracuse, N. Y. Car-coupling	337,650	Mar. 9	1041	267	34	1120
Barnes, Charles P. (See Talley, James H. R., assignor.)						
Barnes Company, W. F. & John. (See Barnes, Benjamin F., assignor.)						
Barnes, Dennis, *et al.* (See Hellem, William, assignor.)						
Barnes, Elbridge F., New Haven, Conn. Cutter-head	338,695	Mar. 30	2469	654	34	1397
Barnes, Erastus H., Brooklyn, N. Y. Gang-edger	336,782	Feb. 23	2416	635, 636	34	892
Barnes, Erastus H., Brooklyn, N. Y. Automatic feed for edging saws	345,778	July 20	1782	359	36	261
Barnes, Ezra R., Philadelphia, Pa. Ear-muff	352,798	Nov. 16	1487	401	37	751
Barnes, George A., New Haven, assignor to F. Armstrong, Bridgeport, Conn. Chuck	335,009	Jan. 26	2103	560	34	410
Barnes, Hamlin, East Liverpool, Ohio, assignor of one-half to Hastings & Co., Philadelphia, Pa. Lining plates of plastic material with gold, &c.	348,183	Aug. 31	2442	655	36	946
Barnes, Harry A., Stevens Point, Wis. Locomotive-engine-truck brass	354,527	Dec. 21	1278	341	37	1253
Barnes, Harry W., and G. H. Blakesley, Bristol, Conn.; said Blakesley assignor to said Barnes. Nut drilling and tapping machine	342,496	May 25	2133	564	35	925
Barnes, Henry, Hyde Park, Ill. Friction-clutch	350,798	Oct. 12	992	266	37	187
Barnes, Jacob. (See Barnes and Cunningham, assignors.)						
Barnes, John H., Greencastle, Ind. Safety attachment	334,926	Jan. 26	1993	331	34	391
Barnes, John H., and J. H. Woolaston, assignors to Barnes Manufacturing Company, New Haven, Conn. Night-latch	337,115	Mar. 2	310	81	34	983
Barnes, John H., and J. H. Woolaston, assignors to Barnes Manufacturing Company, New Haven, Conn. Night-latch	346,704	Aug. 3	319	88	36	523
Barnes, John H., and J. H. Woolaston, assignors to Barnes Manufacturing Company, New Haven, Conn. Key	353,113	Nov. 23	1931	518	37	844
Barnes, Joshua, Brooklyn, N. Y. Syringe	353,528	Nov. 30	2530	674	37	964
Barnes, Joshua B., Springfield, Ill. Furnace for locomotives	354,007	Dec. 7	517	140, 141	37	1100
Barnes, Lucien, Sr. (See Barnes, Charles O. and L., Sr.)						
Barnes Manufacturing Company. (See Barnes and Woolaston, assignors.)						
Barnes, Mary H., Binghamton, N. Y. Sad-iron cleaner	350,966	Oct. 19	1222	324	37	237
Barnes, Merrick M., Boston, Mass. Micrometer-calipers	346,456	Aug. 3	7	3	36	462
Barnes, Merrick M., Boston, Mass. Micrometer-calipers	346,705	Aug. 3	320	88	36	524
Barnes, Merrick M., Boston, Mass. Micrometer-caliper handle	346,706	Aug. 3	322	88	36	524
Barnes, Porter, *et al.* (See Hellem, William, assignor.)						
Barnes, Robert H., and G. C. Sims, Cuero, Tex. Ant-trap	352,289	Nov. 9	823	220	37	617
Barnes, Staten A., and W. Laws, Hopwood, Pa. Apparatus for dumping coal-cars	339,838	Apr. 13	1074	267	35	197
Barnes, Wesley W., New York, and J. D. Emack, Baldwin, N. Y. Composition of matter suitable for casting medallions, tiles, picture-frames, moldings, &c.	339,519	Apr. 6	588	.....	35	108
Barnes, William L., Yonkers, assignor of three-fourths to T. Gerehart, A. S. Gookin, and E. F. J. Gaynor, New York, N. Y. Shield and binder for brushes	355,120	Dec. 28	2132	560	37	1425
Barnes, Willis A. (See Bastet, Louis, assignor.)						
Barnes, Willis A., New York, N. Y. Mechanism for burning fine fuel	345,019	July 6	320	81	36	58
Barnesley, Nelson, Esrom, Mo. Churn	347,312	Aug. 17	1165	313	36	697
Barnett, Americus M., assignor of one-half to J. B. Wright, Elkton, Ky. Shears	337,917	Mar. 16	1388	361	34	1189
Barnett, James P. (See Clark, Frank E., assignor.)						
Barnett, Jean L., Stewartsville, Mo. Track gage and level	353,655	Dec. 7	4	1	37	1007
Barnett, John, New York, and C. S. Bavier, Brooklyn, N. Y. Steam-radiator	338,911	Mar. 30	2786	734	34	1454
Barnett, John W., Lewisburg, assignor of one-half to M. G. Nowlin, Farmington, Tenn. Plow	345,099	July 6	417	107	36	76
Barnett, William F., and F. L. Adams, Hampton, Ga. Plow-stock	346,978	Aug. 10	681	181	36	599
Barnette, William J. (See Polo, Tolman, and Barnette.)						
Barney, Everett H., Springfield, Mass. Skate-fastening	335,556	Feb. 9	657	173	34	565
Barney, Frank P., Chartley, Mass. Button	345,824	July 20	1473	381	36	277
Barney, George C. (See Abbott, Levi, assignor.)						
Barney, James W., Junction City, Kans. Lamp-bracket	345,020	July 6	321	81	36	59
Barney, R. Lester, Swanton, Vt. Sand-feeding mechanism for stone-sawing machines	342,561	May 25	2220	590	35	941
Barney, Susan B., New York, N. Y. Napkin-ring	343,688	June 15	1342	335	35	1263
Barnhart, Clarence L., Flint, Mich. Car-mover	346,347	July 27	2198	563	36	420
Barnhart, Frank, Warren, Pa. Burner for natural gas	345,825	July 20	1476	381	36	277
Barnhart, Harley A., Adelphi, Ohio. Table	353,049	Nov. 23	1847	499	37	826
Barnhart, Harvey P. (See Thatcher and Barnhart.)						
Barnhurst, Henry R. (See Griswold and Barnhurst.)						
Barnhurst, Henry R., Erie, Pa. Band-saw mill	338,017	Mar. 16	1538	399	34	1215
Barnhurst, James I., Philadelphia, Pa. Umbrella	349,476	Sept. 21	1290	335	36	1301
Barnitz, Richard H., Washington, D. C. Combined fastener and label for mail-bags	348,374	Aug. 31	2702	725	36	996
Barns, John P. (See Vandyke and Barns.)						
Barnsdall, John J., and E. C. Bell, Titusville, Pa. Device for tightening forms of type in chases	346,457	Aug. 3	9	3	36	462
Barnum, Theodore F., Troy, N. Y. Dry-board hook	334,927	Jan. 26	1994	531	34	391
Barnum, William H., Danbury, Conn. Packing hats	344,934	July 6	191	49	36	35
Baron, Alfred L., and W. T. Rufer, Bellaire, Ohio. Tubular lantern	345,100	July 6	418	107	36	76
Baron, Theodore S., New York, N. Y. Knit fabric	345,021	July 6	322	81	36	59
Baron, Theodore S., New York, N. Y. Knit fabric. (Reissue)	10,755	Aug. 17	1812	483	36	845
Barr, George D., Greenville, S. C. Blotting-pad, ruler, and paper-cutter	337,651	Mar. 9	1043	268	34	1120
Barr, James L. H. (See Ranson and Barr.)						
Barr, John, St. Louis, Mo. Washing-machine	336,281	Feb. 16	1727	451, 452	34	759
Barr, Lester J., Ashland, Wis. Coal and ore car	349,134	Sept. 14	825	209	36	1202
Barr, Mathew, Aitkin, Minn. Grab-hook for chains	336,687	Feb. 23	2209	601	34	869
Barr, Nicholas, Cayuta, N. Y. Car-coupling	354,008	Dec. 7	519	141	37	1101
Barr, Pinckney F., San Marcial, N. Mex. Ter. Rail-brace	346,979	Aug. 10	682	181	36	599
Barr, Samuel W., Mansfield, Ohio. Sulky-plow	341,718	May 11	1040	275, 276	35	709
Barr, Samuel W., assignor of one-half to W. H. Albach, Mansfield, Ohio. Cash-carrier	341,825	May 11	1177	315	35	736
Barr, Samuel W., assignor of one-half to W. H. Albach, Mansfield, Ohio. Vacuum cash-carrier	341,826	May 11	1178	315	35	736
Barr, William H., assignor of one-half to A. J. Beatty & Sons, Steubenville, Ohio. Finishing glass articles	335,987	Feb. 9	1267	336	34	674
Barrackman, Maria L. (See Stalcup, Benjamin, assignor.)						
Barraclough, Edward, Brooklyn, N. Y. Music-leaf turner	348,098	Aug. 24	2308	618	36	915

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Barraclough, William, Balmain, near Sydney, New South Wales. Hydrocarbon-burner	351,954	Nov. 2	325	90	37	518
Barrett, Alfred E., London, England. Indicator-bolt	338,463	Mar. 23	2147	561	34	1336
Barrett, Charles E., *et al.* (See Barrett, Sidney H., assignor.)						
Barrett, Cornelius S. (See Decker, Riley, assignor.)						
Barrett, Daniel P., Oakland, Cal. Fire-escape	342,856	June 1	110	28	35	1026
Barrett, Edward H., Minneapolis, Minn. Tile pavement	347,861	Aug. 24	1962	.....	36	852
Barrett, Henry, and J. J. Varley, London, England. Elastic wheel-tire and driving-band	345,476	July 13	944	238	36	175
Barrett, James, Boston, Mass. Urinal-fitting	341,310	May 4	485	131	35	593
Barrett, John A., Brooklyn, N. Y. Ammeter	336,688	Feb. 23	2300	601	34	869
Barrett, John A., Brooklyn, assignor to American Telephone and Telegraph Company, New York, N. Y. Telephone-circuit	350,715	Oct. 12	868	234	37	165
Barrett, John P., *et al.* (See Firman, Leroy B., assignor.)						
Barrett, Samuel. (See Gordon and Hamilton, assignors.)						
Barrett, Sidney H., Springfield, Mass., assignor of three-fourths to C. E. Barrett, Brattleborough, Vt., R. T. Hawkins and D. Holland, Springfield, Mass. Axle-box	350,100	Oct. 5	7	2,3	37	4
Barrett, Thomas, Boston, Mass. Manufacturing tack-strips	343,689	June 15	1343	336	35	1263
Barrick, Martin, Nova, Ohio. Handsaw	344,234	June 22	2091	534	35	1408
Barrier, Jules J., and P. de Lavernède, Paris, France. Telephone	344,153	June 22	1976	505	35	1387
Barringer, James F., Bennettsville, S. C. Broom-holder	334,214	Jan. 12	1026	273	34	109
Barron, Marcellus, Addison, N. Y. Nut-lock	346,185	July 27	1971	508	36	358
Barrow, David C., Philomath, Ga. Cotton-basket	344,340	June 29	2238	576	35	1442
Barrow, John T., Chicago, Ill. Lamp-chimney	351,825	Nov. 2	132	36	37	483
Barrow, Thomas E., Mansfield, Ohio. Cuff-fastener	354,373	Dec. 14	1060	283	37	1208
Barrows, Andrew, assignor of one-half to G. Engdall, Chicago, Ill. Spike	340,082	Apr. 20	1410	356	35	263
Barrows, Henry P., and L. D. Knowles, Three Rivers, Mich., assignors to Initial Toepad Company, (limited.) Carriage foot-pad	344,935	July 6	192	49	36	36
Barrows, Herbert, trustee. (See Warren, John, assignor.)						
Barry, Charles, Corning, N. Y. Railway time-signal	337,229	Mar. 2	463	121	34	1011
Barry, James. (See Hall, Alfred, assignor.)						
Barry, Job R., Philadelphia, Pa. Steam-trap	343,690	June 15	1344	336	35	1264
Barry, Michael, Valparaiso, Ind. Vehicle-spring	336,544	Feb. 23	2085	547	34	831
Barry, William, and J. R. Calder, Minden, Nebr. Bagasse-furnace	343,972	June 22	1726	423	35	1343
Barry, William B., Indianapolis, Ind. Apparatus for tempering saws	343,358	June 8	871	219	35	1172
Barse, Mills W., Olean, N. Y. Furnace for heating glass pots, crucibles, blanks, &c	345,356	July 13	775	194	36	145
Barse, Mills W., Olean, N. Y. Steam-boiler furnace	345,357	July 13	775	194	36	145
Barstow, Calvin J., Cheneyville, La. Machine for making brick, tile, &c	338,018	Mar. 16	1540	400	34	1215
Barstow, Stephen, Farmington, assignor of one-half to W. C. Hanna, Peoria, Ill. Sweat-pad for horse-collars	353,913	Dec. 7	381	101	37	1076
Bartelle, Nicholas, assignor to Two Rivers Manufacturing Company, Two Rivers, Mich. Convertible chair	340,754	Apr. 27	2372	625	35	443
Bartels, William H., assignor of two-thirds to G. Edmunds, Carthage, Ill., and G. Vote, Fairfield, Iowa. Grass and weed cutting machine for railway-tracks	337,361	Mar. 9	641	170	34	1051
Barth, Gustave A., and W. Ramsey, St. Louis, Mo. Metallic bedstead	341,311	May 4	486	132	35	593
Bartholomew, Charles M., Plainwell, Mich. Pump-rod coupling	336,783	Feb. 23	2418	636	34	892
Bartholomew, Francis A., Bloomfield, N. J., assignor to Riley Railway Construction Company of New Jersey. Car-truck	336,983	Mar. 2	133	36	34	950
Bartholomew, Francis A., Bloomfield, assignor to Riley Railway Construction Company, of New Jersey. Car-truck for elevated railways	342,673	May 25	2380	629	35	970
Bartholomew, George E., assignor to himself and E. Armant, Brooklyn, N. Y. Vehicle-seat	349,135	Sept. 14	826	210	36	1202
Bartholomew, George E., assignor to himself and E. Armant, Brooklyn, N. Y. Vehicle running-gear	349,136	Sept. 14	827	210	36	1203
Bartholomew, Harry S., Bristol, Conn. Corn-harvester	353,476	Nov. 30	2454	655 / 656	37	950
Bartholomew, Miles M., Belleville, Ill. Type-writing machine	335,736	Feb. 9	918	242	34	612
Bartholomew, Miles M., Belleville, Ill. Stenographic machine	352,799	Nov. 16	1488	401	37	751
Bartholomew, Thomas W., Danville, Pa. Advertising-card	354,174	Dec. 14	775	207	37	1155
Bartlett, Charles F., *et al.* (See McIlvain, John H., assignor.)						
Bartlett, Charles O., Cleveland, Ohio. Magnetic separator	349,422	Sept. 21	1214	315	36	1286
Bartlett, Charles R., Boston, Mass. Fishing-seine	354,763	Dec. 21	1633	432	37	1318
Bartlett, Daniel W., Kansas City, Mo., assignor of one-half to H. Haussmann, Chicago, Ill. Artificial leg	344,174	June 22	1977	506	35	1387
Bartlett, Elbridge G. W., Yonkers, N. Y. Reversible filter	333,498	Jan. 5	4	2	34	4
Bartlett, Frank J., Easton, N. H. Sleigh-knee	342,167	May 18	1640	439	35	830
Bartlett, George H., Madison, Wis. Shoe for mowing-machines	340,063	Apr. 20	1411	357	35	263
Bartlett, Henry F., assignor of one-third to J. B. Carson, S. A. and S. C. Haseltine, Springfield, Mo. Oven	343,562	June 15	1164	293	35	1233
Bartlett, James F., Cleveland, Ohio. Brush	335,876	Feb. 9	1110	294	34	647
Bartlett, Jason T., assignor to himself and E. E. Butman, Boston, Mass. Truss	345,405	July 13	842	210	36	157
Bartlett, Joseph B., *et al.* (See McIlvain, John H., assignor.)						
Bartlett, Judah F., Brooklyn, N. Y. Anchor-tripper	343,657	June 15	1291	324	35	1255
Bartlett, Leander L., assignor to Montague City Rod Company, Montague, Mass. Fishing-rod	337,474	Mar. 9	827	209	34	1081
Bartlett, Marcus J. (See Wilkins and Bartlett.)						
Bartlett, Wallace A., Washington, D. C. Fire-extinguishing projectile	336,981	Mar. 2	130	35	34	949
Bartlett, Wallace A., Washington, D. C. Pneumatic cannon	344,936	July 6	193	49, 50	36	36
Bartlett, Wallace A., Washington, D. C., assignor to W. G. Benedict, Boston, Mass. Revolving pneumatic cannon	352,110	Nov. 9	564	149 / 150	37	571
Bartling, Conrad F., Greenville, Ohio. Fence-machine	350,967	Oct. 19	1222	324	37	237
Bartly, Robert, Ennis, Tex. Pruning implement	347,552	Aug. 17	1509	401	36	759
Bartmes, Abraham, C. V. Whallon, and D. W. Frick; said Bartmes and Frick assignors to said Whallon and J. W. Shively, Cold Water, Ohio. Combined clod-crusher and land-marker	342,995	June 1	301	77	35	1061
Barton, Albert G., Constantine, Mich. Tedder	344,803	July 6	1	1	36	3
Barton, Elijah C., East Hampton, Conn. Gong-bell	345,101	July 6	419	108	36	76
Barton, G. F. (See Thurston, William H., assignor.)						
Barton, Henry J. (See Musgrave and Barton.)						
Barton, Jesse H., Brownsville, Tenn. Gate	338,912	Mar. 30	2787	735	34	1454
Barton, John, Glasgow, county of Lanark, Scotland. Anchor	341,872	May 18	1245	333	35	756
Barton, Richard T., assignor to A. H. Smith, New Haven, and G. H. Allen, Hamden, Conn. Machine for straightening bar-iron	346,884	Aug. 10	550	149	36	575
Barton, Richard T., assignor to A. H. Smith, New Haven, and G. H. Allen, Hamden, Conn. Machine for making crowned nuts	346,885	Aug. 10	551	149	36	575

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Pages.
Bartram, Ferdinand S, New York, N. Y. Fountain-pen and fountain pen-holder	338,019	Mar. 16	1541	400	34	1215
Baruch, Nathan, and O. L. Williams, Athens, Ga. Feather-renovator	347,458	Aug. 17	1379	366 / 367	36	735
Basch, Jacob, East New York, N. Y. Hat-ventilator	350,651	Oct. 12	788	214	37	150
Basham, Wesley H., Glen Rose, Tex. Cotton-scraper	351,018	Oct. 19	1324	348	37	255
Basham, Wesley H., assignor of one-half to B. R. Milam, Glen Rose, Tex. Combined cotton chopper and scraper	349,076	Sept. 14	742	189	36	1186
Basim, Henry T., Decaturville, Ohio. Log-turner	334,330	Jan. 12	1193	320	34	229
Baskin, William S., Corning, N. Y. Compound for cleaning boilers	345,206	July 6	556	.....	36	101
Bass, Job G., Jr. (See Hosford and Bass.)						
Bassell, John Y., assignor to R. G. Bassell, Leesburg, Va. Sash-fastener	334,685	Jan. 19	1685	450	34	325
Bassell, Rebecca G. (See Bassell, John Y., assignor.)						
Bassett, Charles F. (See Hunter and Bassett.)						
Bassett, Charles F., Chicago, Ill. Corn-harvester	335,877	Feb. 9	1112	294 / 295	34	648
Bassett, George B., Watertown, N. Y. System of water-distribution	349,202	Sept. 14	911	234	36	1219
Bassett, George B., Watertown, N. Y. System of water-distribution	352,389	Nov. 9	949	254	37	643
Bassett, George W. (See Reilly, Edward G., assignor.)						
Bassett, Ira, Chicago, Ill. Pneumatic action for organs	336,982	Mar. 2	131	35	34	949
Bassett, Nathan, Haddonfield, N. J., assignor to B. R. Leeds, Philadelphia, Pa. Mixing-machine for paints	336,079	Feb. 16	1409	373 / 374	34	706
Bassett, Norman C., assignor to Crane Brothers Manufacturing Company, Chicago, Ill. Automatic regulating-valve for hydraulic elevators	348,610	Sept. 7	109	31	36	1067
Bastet, Louis, South Orange, N. J., assignor of one-half to W. A. Barnes, New York, N. Y. Elastic paper or felting for carpet-lining	346,799	Aug. 3	425	.....	36	543
Bastian, Eugene, Clayton, assignor of one-half to C. G. Emery, Brooklyn, N. Y. Snow-plow	344,235	June 22	2092	534 / 535	35	1408
Batcheller, John, Jr., Jamaica Plain, Mass. Heater	341,124	May 4	210	64	35	544
Batcheller, Alfred H. (See Pitfield, John W. D., assignor.)						
Batchelor, Charles. (See Walter, Henry E., assignor.)						
Batchelor, Charles, New York, N. Y. Dynamo-electric machine	338,383	Mar. 23	2038	535	34	1315
Batchelor, Charles, New York, N. Y. Dynamo-electric machine	341,990	May 18	1395	373	35	783
Batchelor, Charles, New York, and H. E. Walter, Clifton, N. Y. Dynamo-electric machine	339,839	Apr. 13	1076	268	35	197
Batchelor, Charles D., Pillsbury, assignor of one-half to G. N. Bressler, Long Prairie, Minn. Snow-plow	336,833	Feb. 23	2481	653	34	903
Batchelor, Joseph F., Baltimore, Md. Freight-car	347,553	Aug. 17	1510	401	36	759
Batchelor, Telford C., West Kensington, county of Middlesex, England. Metal rope	338,913	Mar. 30	2788	735	34	1454
Bate, Wallace H., Melrose, Mass. Handle or pull for water-closets, &c	334,412	Jan. 19	1306	354	34	256
Bate, Wallace H., Malden, Mass. Handle or pull for water-closets	347,313	Aug. 17	1166	313	36	697
Bate, Wallace H., Melrose, Mass. Water-supply apparatus for tanks	351,732	Nov. 2	4	1	37	459
Bateman, Burton H. (See Hooper, E. James, assignor.)						
Bates, Albert J., Joliet, Ill., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Wire-barbing machine	345,759	July 20	1383	359 / 360	36	262
Bates, Alonzo A., *et al.* (See Wheeler, Clarence L., assignor.)						
Bates, Edward C., Salem, Mass., assignor to O. B. Morris, Moorestown, N. J. Electro-depositing nickel	346,258	July 27	2080	.....	36	399
Bates, Franklin P., assignor of one-half to E. L. Baker, Syracuse, N. Y. Die for making fifth-wheels	338,217	Mar. 16	1804	470	34	1266
Bates, Jeremiah, Sherburne, Minn. Machine for separating flaxseed	340,542	Apr. 27	2071	534	35	392
Bates, John H., Pottsville, Pa. Artificial stone or concrete pavement	350,101	Oct. 5	9	3	37	4
Bates, Lewis J., Detroit, Mich. Elevator-hatchway	340,755	Apr. 27	2373	625	35	443
Bates, Loring L., Everett, Mass. Lock	347,554	Aug. 17	1511	401	36	759
Bates, William D., Guthrie Centre, Iowa. Rain-water conductor	352,290	Nov. 9	824	220	37	617
Bates, William M. (See Norton, William T., assignor.)						
Bates, William S., Chicago, Ill. Breakwater	346,140	July 27	1914	494	36	367
Bathgate, Robert D. (See McDonald, James W., assignor.)						
Batho, William F., Westminster, county of Middlesex, England. Basic lining for open-hearth steel and iron furnaces	339,360	Apr. 6	351	85	35	66
Batig, Joseph, Jr. (See Sherck and Batig.)						
Batt, John B., assignor to Batt Railway Crossing Signal Company, Buffalo, N. Y. Railway-signal	340,756	Apr. 27	2375	626	35	443
Batt, John B., Williamsville, assignor of one-half to L. Gebhard, Buffalo, N. Y. Freight-car door	352,731	Nov. 16	1397	378	37	735
Batt Railway Crossing Signal Company. (See Batt, John B., assignor.)						
Battersby, Jenyns C. (See Waring, Clara K., assignor.)						
Battis, John, Salem, Mass. Safety-pin	350,799	Oct. 12	993	266	37	187
Battles, R. S. (See Gilbert, George D., assignor.)						
Battles, Rush S., Girard, Pa. Sand-feed for well-digging rigs	347,314	Aug. 17	1167	313	36	697
Batty, Henry. (See Lister and Batty.)						
Batty, Lindley M., Canton, Ohio. Feed-cutting machine	346,707	Aug. 3	322	89	36	524
Bauer, Charles V., Nicholasville, Ky. Horse-collar-pad fastener	341,719	May 11	1042	276	35	710
Bauer, Friedrich, Orange, N. J. Hat sizing or felting machine	338,464	Mar. 23	2148	562	34	1336
Bauer, George, St. Louis, Mo. Swing	336,080	Feb. 16	1411	374	34	706
Bauer, Raymund. (See Row and Bauer.)						
Bauer, Wilhelm, San Carlos, Santa Fé, Argentine Republic. Roller-mill	344,472	June 29	2417	622	35	1474
Baughman, Delmer L., Albion, Ind. Tube-cutter	334,928	Jan. 26	1995	531	34	391
Baughman, Nelson C. (See Johnston, James M., assignor.)						
Baubahn, Gustav E. (See Keller and Baubahn.)						
Baulieu, William J., Bridgeport, Conn. Automatic fire-alarm	343,687	June 15	1340	335	35	1263
Baulieu, William J., Bridgeport, Conn. Automatic fire-alarm	343,691	June 15	1345	336 / 337	35	1264
Baum, Charles, Washington, D. C. Store-service ticket	334,157	Jan. 12	934	253	34	180
Baum, Philip, *et al.* (See Powell and Nolan, assignors.)						
Baum, Theodore J., Cincinnati, Ohio. Valve-gear for oscillating engines	339,132	Apr. 6	19	6	35	6
Bauman, Henry G., assignor to himself and J. T. McMaster, Pittsburg, Pa. Electric leak-alarm for pipes	337,116	Mar. 2	311	82	34	984
Baumann, Erhard, Dayton, Ohio. Steam-condenser	340,084	Apr. 20	1414	358	35	264
Baumann, Heinrich W., Memphis, Tenn. Show-box cover	348,713	Sept. 7	248	66	36	1093
Baumbach, Emil, New York, N. Y. Railway signaling apparatus	343,751	June 15	1440	359	35	1281
Baumgarten, Albert. (See Morgan, Charles and E. H., assignors.)						
Baumgarten, Albert, *et al.* (See Tobias and Shoesmith, assignors.)						
Baumgarten, Christian, Schulenburg, Tex. Apparatus for extracting oils	354,299	Dec. 14	963	255 / 256	37	1188

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Baumgarten, Christian, Schulenburg, Tex. Press for expressing oil from cotton and other seeds	354,673	Dec. 21	1504	398	37	1293
Baumgartner, John. (See Brose and Baumgartner.)						
Baumgartner, Peter J., Berne, Ind. Thill-coupling	353,656	Dec. 7	5	2	37	1008
Baur, Wilhelm, and J. V. V. Booraem, Brooklyn, N. Y. Machine for cutting sugar	349,027	Sept. 14	672	173, 174	36	1174
Baur, Wilhelm, and J. V. V. Booraem, Brooklyn, N. Y. Tray for picking up and handling cut sugar	349,028	Sept. 14	675	174	36	1174
Bavier, Charles S. (See Barnett and Bavier.)						
Baxter, Charles O., St. Louis, Mo. Knockdown picture-frame	351,955	Nov. 2	326	90, 91	37	518
Baxter, Charles O., St. Louis, Mo. Sign	352,030	Nov. 2	436	118	37	540
Baxter, Isaac J., Jr., Peekskill, N. Y. Perch for fowls	342,894	June 1	167	43	35	1036
Baxter, William N., Providence, R. I. Parlor-game apparatus	353,114	Nov. 23	1932	518	37	844
Bay, Jacques, Paris, France. Toilet-glass	349,333	Sept. 21	1070	275	36	1259
Bay, Joseph L., *et al.* (See Townsend, Louis, assignor.)						
Bay State Felt Boot and Shoe Company. (See Brandy, James, assignor.)						
Baya, J. F., *et al.* (See Davis, William M., assignor.)						
Bayer, Charles, New York, N. Y. Piano-forte damper-action	354,618	Dec. 21	1425	378	37	1279
Bayer, Charles, New York, N. Y. Piano-forte damper-action	354,619	Dec. 21	1426	378	37	1279
Bayer, Joseph, and E. Puchta, Washington, Mo. Manufacture of tiles	338,465	Mar. 23	2149	562	34	1336
Bayle, Samuel, Philadelphia, Pa. Paper-bag and making the same	341,720	May 11	1043	276	35	710
Bayler, Charles A., York, Pa. Machine for bunching cigars	337,731	Mar. 9	1140	295	34	1137
Bayler, Charles A., and B. F. Strickler, York, Pa. Cigar-perforator	334,686	Jan. 1	1687	450	34	326
Bayler, Charles A., and B. F. Strickler, York, Pa. Cigar-bunch turner and perforator	334,687	Jan. 19	1688	451	34	326
Bayles, Havens B., Brooklyn, N. Y. Electric laryngoscope	341,873	May 18	1247	334	35	756
Bayley, Charles H., Boston, Mass., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Sewing-machine	345,207	July 6	556	142	36	101
Bayley, Thomas S., Alturas, Cal. Two-wheeled vehicle	347,022	Aug. 10	745	198	36	610
Bayley, William. (See Whiteley and Bayley.)						
Bayley, William. (See Whiteley, Bayley, and Dyer.)						
Bayley, William, Milwaukee, Wis. Cover for vaults, sidewalk-traps, &c	346,800	Aug. 3	426	117	36	543
Baylis, James. (See Warren, David H., assignor.)						
Bayliss, Benjamin, Jr., Beltzhoover, Pa. Working converters	347,913	Aug. 24	2044	542	36	866
Baylor, John J., North Manlius, N. Y. Sofa and bedstead combined	337,652	Mar. 9	1044	268	34	1121
Baynard, William H., Baltimore, Md. Safe-door	346,980	Aug. 10	683	181, 182	36	599
Bayne, Henry F., Ruston, La. Steam-engine	344,432	June 29	2367	609	35	1466
Baynes, James B., Buffalo, N. Y. Vehicle-spring	343,791	June 15	1484	373	35	1290
Bayrer, William J., assignor to Peck, Stow & Wilcox Company, Southington, Conn. Machine for bending sheet metal	339,729	Apr. 13	933	229	35	170
Bayrer, William J., assignor to Peck, Stow & Wilcox Company, Southington, Conn. Tinsmith's shearing device	344,074	June 22	1874	481, 482	35	1369
Bayrer, William J., assignor to Peck, Stow & Wilcox Company, Southington, Conn. Foot-press	346,141	July 27	1915	494	36	367
Bayrhoffer, Theodore C. H., Rising City, Nebr. Door-latch	336,374	Feb. 16	1856	486	34	784
Bays, William W., Asheville, N.C. Car-coupling	342,168	May 18	1641	439	35	830
Bazin, Ernest, Paris, France. Electric battery	349,380	Sept. 21	1160	300	36	1276
Bazzett, Charles T. (See Sliter and Bazzett.)						
Beach, Allen J., deceased, Flint, Mich.; C. E. Beach administratrix. Running-gear for vehicles. (Reissue)	10,679	Jan. 19	1746	466	34	338
Beach, Charles L. (See Rice, R. Fredrick, assignor.)						
Beach, Clara E., administratrix. (See Beach, Allen J.) (Reissue.)						
Beach, Clifton B., Cleveland, Ohio. Utilizing old wheel-tires	335,878	Feb. 9	1118	295, 296	34	644
Beach, Clifton B., Cleveland, Ohio. Apparatus for converting steel tires into bars or billets.	335,879	Feb. 9	1121	296, 297	34	649
Beach, Clifton B., Cleveland, Ohio. Converting tires into bars, &c	347,459	Aug. 17	1381	367	36	735
Beach, Edward P., Chicago, Ill. Calculator	345,022	July 6	324	81	36	59
Beach, James C., *et al.* (See Coles, David H., assignor.)						
Beach, James C., Bloomfield, N. J. Car-wheel	339,613	Apr. 13	763	189	35	141
Beach, James C., Bloomfield, N. J. Car-wheel	342,169	May 18	1643	439	35	830
Beach, James C., Bloomfield, N. J. Car-wheel	342,170	May 18	1644	439	35	830
Beach, John K., New Haven, Conn. Shutter for photographic apparatus	339,840	Apr. 13	1077	268	35	198
Beach, Milo D., Litchfield, Conn. Feed-trough for poultry	347,081	Aug. 10	842	224	36	628
Beach, Robert B., Philadelphia, Pa. Shoe-pinchers	346,886	Aug. 10	552	149	36	575
Beach, William H., Minneapolis, Minn. Packing-box	333,720	Jan. 5	312	86	34	58
Beach, William W., New York, assignor to D. R. Morse, Brooklyn, N. Y., and R. M. Stelle, Plainfield, N. J. Blinder for bridles	347,862	Aug. 24	1962	520	36	852
Beach, William W., New York, assignor to D. R. Morse, Brooklyn, N. Y., and R. M. Stelle, Plainfield, N. J. Blinder for bridles	350,716	Oct. 12	872	234	37	166
Beachman, Robert, Lyons, N. Y. Vise	351,151	Oct. 19	1503	393	37	288
Beaird, James W. A. and M., Bayou La Chute, La. Wagon-brake	348,714	Sept. 7	248	66	36	1093
Beaird, Marion. (See Beaird, James W. A. and M.)						
Beal, Francis R., Northville, Mich. Tension-joint for school-desks	352,968	Nov. 23	1717	461	37	803
Beal, Frank A., Haverhill, Mass. Nailing-machine for boots or shoes	333,812	Jan. 5	431	117	34	81
Beal, J. Williams, Hanover, Mass. Hub-attaching device	351,847	Nov. 2	174	47	37	490
Beal, Seth, Manchester, Iowa. Corn-planter	346,186	July 27	1972	508, 509	36	378
Beal, William R., New York, N. Y. Gas-scrubber	340,543	Apr. 27	2072	535	35	392
Beale, Alfred, assignor to himself, L. B. Clark, New York, N. Y., and E. R. Wiggin, Boston, Mass. Telephone-transmitter	342,775	June 1	3	1	35	1007
Beale, Alfred M. A., assignor of two-thirds to L. B. Clark, New York, N. Y., and E. R. Wiggin, Boston, Mass. Induction-coil	342,947	June 1	247	63	35	1051
Beale, Forrest W. (See Reed and Beale.)						
Beale, Joseph G., and J. A. Armstrong, Leechburg, Pa. Automatic pressure-regulator	337,918	Mar. 16	1390	361	34	1189
Beale, Weisel, New Madrid, Mo. Household furniture	339,614	Apr. 13	764	189	35	141
Beales, Emanuel D., Guyandotte, W. Va. Combination-tool	345,826	July 20	1476	381	36	277
Beales, Emanuel D., assignor of one-half to S. C. Keenan and A. M. Flower, Guyandotte, W. Va. Shoe-maker's tool	339,520	Apr. 6	588	142	35	108
Beales, Emanuel D., assignor to himself and J. L. Caldwell, Guyandotte, W. Va. Lock-hinge	348,099	Aug. 24	2310	619	36	916
Beall, Frank, assignor of one-half to J. and J. W. Hatfield, Decatur, Ill. Grinding-mill	341,546	May 11	804	214	35	662
Beall, John A., *et al.*, executors. (See Benham, Henry W.)						
Beals, James B., *et al.* (See Dewey, John J., assignor.)						
Beaman, Andrew J., assignor of one-half to C. E. Lott, Ogden, N. Y. Hay-press	354,457	Dec. 14	1170	313	37	1227

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Beaman, Timothy L., Knoxville, Tenn. Rolls for rolling girder-rails	347,283	Aug. 10	1113	298	36	678
Beams, Henry J., Reynoldsville, Pa. Combined threshold and weather strip	350,102	Oct. 5	11	3	37	5
Bean, Charles M. (See Anderson, David S., assignor.)						
Bean, Edwin E., Boston, Mass. Pegging-machine	342,278	May 18	1790	474 475	35	857
Bean, George W., New Haven, Conn. Metal-planing machine	351,895	Nov. 2	235	66	37	501
Bean, John, Los Gatos, Cal. Spraying-pump	337,919	Mar. 16	1391	361	34	1189
Bean, John, Los Gatos, Cal. Spraying-nozzle	351,087	Oct. 19	1417	372	37	271
Bean, John, Los Gatos, Cal. Spraying-pump	351,088	Oct. 19	1419	372	37	271
Bean, John, Los Gatos, Cal. Animal-trap	353,657	Dec. 7	5	2	37	1008
Bean, Joseph S., *et al.* (See Close, Philipp C., assignor.)						
Bean, Roscoe, Springfield, Ohio. Pump	334,732	Jan. 26	1754	467	34	346
Bean, Roscoe, Springfield, Ohio. Bicycle-saddle	341,547	May 11	805	214	35	662
Bean, Roscoe, Springfield, Ohio. Pump	348,881	Sept. 7	466	123	36	1133
Bean, Roscoe, and A. W. Grant, assignors to Tricycle Manufacturing Company, Springfield, Ohio. Combined clip-iron and brace for carriages	350,103	Oct. 5	12	3 4	37	5
Bean, Theodore W., Norristown, Pa. Machine for rolling car-wheels	337,230	Mar. 2	465	121	34	1012
Bean, Wesley P., San Francisco, Cal. Combined easy-chair and sofa-bedstead	343,265	June 8	714	177	35	1145
Beard, Andrew, Woodlawn, Ala. Plow or cultivator	347,220	Aug. 10	1029	274	36	662
Beard, Eli F., Republic, Ohio. Knockdown table	344,893	July 6	140	35	36	25
Beard, George M., assignor of one-half to W. H. Rakestraw, Auburn, Ind. Windmill-regulator	338,914	Mar. 30	2789	735 736	34	1454
Beard, George W., Baltimore, Md. Sewer trap or ventilator	334,158	Jan. 12	936	253	34	180
Beard, Joseph, Boston, Mass. Discharge-pipe for vaults	345,023	July 6	325	82	36	59
Beard, William H., Brooklyn, N. Y. Suction-excavator	349,381	Sept. 21	1161	301	36	1276
Beardslee, Marcus D., Minneapolis, Minn. Grain-grader	353,658	Dec. 7	8	2	37	1008
Beardslee, William F., Boston, Mass. Thread-controlling mechanism for sewing-machines	333,586	Jan. 5	120	33	34	25
Beardslee, William F., Boston, Mass., assignor to Manufacturers Special Machine Company, Danbury, Conn. Worm-gearing	336,200	Feb. 16	1599	420	34	739
Beardslee, William F., Boston, Mass., assignor to Manufacturers' Special Machine Company, Danbury, Conn. Sewing-machine	355,053	Dec. 28	2035	535	37	1105
Beardsley, Backus A., Waterville, N. Y. Press	336,545	Feb. 23	2085	548	34	831
Beardsley, James L. (See Walker and Beardsley.)						
Beardsley, John A., Minneapolis, Minn. Vapor-generator	348,820	Sept. 7	374	101	36	1117
Beardsley, Levi A., Dodge City, Kans. Ship for aerial navigation	336,984	Mar. 2	134	36	34	950
Beardsley, Melvin W. (See Pearce and Beardsley.)						
Beardsley, Roswell, Ashby, Minn. Thrashing-machine	339,841	Apr. 13	1079	268	35	198
Beardsley, William N., Bridgeport, Conn., and L. Keller, New York, N. Y. Shot and powder measure	353,115	Nov. 23	1933	518	37	845
Bearrie, Arthur E., Chicago, Ill. Tailor's square	350,104	Oct. 5	14	4	37	5
Beasley, Maria E., Philadelphia, Pa. Steam-generator	341,721	May 11	1043	277	35	710
Beasley, Maria E., Philadelphia, Pa. Making barrels	352,850	Nov. 16	1549	418	37	763
Beatson, William, Ash Mount, Rotherham, county of York, England. Recovering tin from waste tinned iron	352,603	Nov. 16	1220	331	37	701
Beattie, John, Jr., Westport, Mass. Electric motor	346,527	Aug. 3	100	26	36	479
Beattie, John, Jr., Westport, Mass. Electric battery	346,528	Aug. 3	101	27	36	479
Beattie, William, Cohoes, N. Y. Machine for uniting knit fabrics	354,374	Dec. 14	1061	283 284	37	1208
Beatty, Dempster, Mishawaka, Ind. Felt-boot	344,613	June 29	2612	677	35	1512
Beatty, George, *et al.* (See Kleese, Wilson, assignor.)						
Beatty, John W., Erie, Pa. Pillow-sham holder	341,441	May 11	657	177	35	633
Beatty, Robert P., Norwalk, Conn. Advertising-box	348,611	Sept. 7	111	32	36	1067
Beatty, Samuel A., New York, N. Y. Gas-pressure regulator	333,587	Jan. 5	123	34	34	26
Beatty, Samuel A., New York, N. Y., assignor to American Gas Pressure Regulator Company, of New York. Gas-pressure regulator	354,674	Dec. 21	1505	399	37	1293
Beatty & Sons, A. J. (See Barr, William H., assignor.)						
Beaty, William T., Nashville, Tenn. Vehicle-spring	354,850	Dec. 21	1739	461	37	1339
Beaudette, Philogène E., Boston, Mass. Hair-clipper	334,733	Jan. 26	1755	468	34	346
Beaudin, Elia, assignor of one-half to J. Williams, Muskegon, Mich. Car-coupling	351,568	Oct. 26	2124	550	37	408
Beaudry, Henri, Montreal, Quebec, Canada. Suspenders	348,100	Aug. 24	2311	619	36	916
Beaumel, David W. (See Brown and Beaumel.)						
Beaupre, Bruno, St. Paul, and J. C. Meloy, Hastings, Minn. Amalgamator	339,842	Apr. 13	1080	269	35	198
Beaver, Robert A., Liverpool, county of Lancaster, England. Brake apparatus for hoists	353,282	Nov. 30	2171	581 582	37	897
Beaver, Thomas, and W. G. Jewitt, Toronto, Ontario, Canada. Street-indicator for cars	334,331	Jan. 12	1194	321	34	230
Beavers, Joshua H., New Castle, assignor of one-half to C. M. Reed, Fayette County, Ind. Fence-machine	352,111	Nov. 9	565	150	37	572
Beavis, John. (See Martin and Beavis.)						
Beavis, John, Cleveland, Ohio. Machine for rolling rods of metal	353,116	Nov. 23	1934	519	37	845
Beazley, Joseph O., Baltimore, Md. Feed-trough for poultry-coops	341,211	May 4	327	92	35	565
Beazley, Joseph O., and H. S. Brewington, Baltimore, Md. Milk-pail strainer	350,183	Oct. 5	122	34	37	25
Bechly, Charles, Sheboygan, Wis. Staining-machine	348,375	Aug. 31	2703	726	36	997
Bechman, Henry F., assignor to Schniedewend & Lee Company, Chicago, Ill. Inking device for printing-machines	345,760	July 20	1388	360 361	36	263
Bechman, Henry F., assignor to Schniedewend & Lee Company, Chicago, Ill. Throw-off mechanism for printing-presses	346,635	Aug. 3	236	65	36	506
Becht, Frank, Colona, Ill. Road-cart	348,447	Aug. 31	2807	754	36	1017
Beck, Charles W., Joliet, Ill. Hitching-strap and buckle therefor	347,082	Aug. 10	842	224	36	628
Beck, Christian. (See Seidel, Charles F. W., assignor.)						
Beck, Frederick, New York, N. Y. Manufacture of paper	342,315	May 25	1867	.....	35	879
Beck, Frederic S., Brooklyn, N. Y., and J. J. Holland, New Brunswick, N. J. Button	352,291	Nov. 9	825	221	37	617
Beck, John O., Chicago, Ill. Ice-house	344,614	June 29	2612	677	35	1512
Becker, Adolph, Newark, N. J. Bottle-stopper	349,268	Sept. 14	1000	235	36	1236
Becker, Alphonzo, assignor to Becker, Skinner & Co., Waterford, Pa. Animal-trap	352,800	Nov. 16	1489	401	37	752
Becker, Anthony W., Chapin, Ill. Combined bolt-holder and pipe-wrench	336,985	Mar. 2	133	37	34	950
Becker, August J., Mount Carmel, Pa. Miner's safety-lamp	353,438	Nov. 30	2399	640	37	940
Becker, Bernard E., Boston, Mass. Paper-box machine	339,843	Apr. 13	1082	269	35	198
Becker, Carl, Berlin, Germany. Cooking apparatus	348,821	Sept. 7	376	102	36	1117
Becker, Charles G. (See Morgan and Becker.)						
Becker, Christopher, Sr., New Rochelle, N. Y. Clock-escapement	334,068	Jan. 12	796	218	34	156
Becker, E. John M., New York, N. Y. Saw-tooth	341,789	May 11	1126	298	35	725
Becker, Emil A., Buffalo, N. Y. Making a fertilizer from tank-waste	342,417	May 25	2019	.....	35	904
Becker, Ernst, New York, N. Y. Analytical balance	336,516	Feb. 23	2087	548	34	832
Becker, Francis L., New York, N. Y. Door-spring	354,687	Dec. 14	632	172	37	1130

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Def'g.	Official Gazette. Vol.	Official Gazette. Page.
Becker, Frederick G., assignor to D. S. Morgan & Co., Brockport, N. Y. Harvester-reel	338,020	Mar. 16	1546	400	34	1216
Becker, Frederick G., assignor to D. S. Morgan & Company, Brockport, N. Y. Harvester-reel	349,973	Sept. 28	1970	509 510	36	1439
Becker, Frederick G., assignor to D. S. Morgan & Company, Brockport, N. Y. Harvester-rake and reel	351,019	Oct. 19	1325	348 349	37	255
Becker, George, assignor to Hancock, Becker & Co., Providence, R. I. Hinge-joint for jewelry	354,458	Dec. 14	1171	313	37	1228
Becker, John, Boston, Mass., assignor to World Type Writer Company, Portland, Me. Type-writing machine	350,717	Oct. 12	873	234	37	166
Becker, Skinner & Co. (See Becker, Alphonzo, assignor.)						
Becker, Victor H., Chicago, Ill. Distributing-valve	337,362	Mar. 9	644	170	34	1052
Becker, Victor H., Chicago, Ill. Ammonia-evaporator for refrigerators	337,363	Mar. 9	645	171	34	1052
Beckert, Andrew, Baltimore, Md. Balance-valve	352,801	Nov. 16	1490	401	37	752
Beckert, William, Allegheny City, Pa. Wagon-brake	340,544	Apr. 27	2073	535	35	393
Beckhardt, Louis. (See Newman, Anton E., assignor.)						
Beckwith, Benjamin F. and J. B., and J. Burson, Plum Hollow, Iowa. Anti-freezing box for turbine shafts	339,730	Apr. 13	934	229	35	170
Beckwith, George C. (See Beman, Beckwith, and Wood.)						
Beckwith, James B. (See Beckwith and Burson.)						
Beckwith, Lizzie S., *et al.* (See Oliver, Reuben W., assignor.)						
Beckwith, Warren, Geneva, Wis. Wagon end-gate	354,088	Dec. 14	633	172	37	1130
Bedbury Divided Car Axle Company of California. (See Bedbury, George W., assignor.)						
Bedbury, George W., assignor to Bedbury Divided Car Axle Company of California, San Francisco, Cal. Divided car-axle	335,737	Feb. 9	919	242	34	612
Bedell, Benjamin H., Le Roy, Ohio. Clasp	350,228	Oct. 5	185	53	37	38
Bedell, George E., Herkimer, N. Y. Bed-bottom	334,556	Jan. 19	1509	404	34	292
Bedell, George E., Herkimer, N. Y. Folding-car-bed	338,696	Mar. 30	2470	652	34	1397
Bedell, Lorana. (See Conover, Stephen B., assignor.)						
Bedford, George J., Anamosa, Iowa. Freight-car lock	348,715	Sept. 7	249	66, 67	36	1093
Bedlington, Peter R. (See Roe and Bedlington.)						
Beebe, Charles S., Racine, Wis. Two-wheeled vehicle	342,996	June 1	302	78	35	1061
Beebe, Charles S., Racine, Wis. Two-wheeled vehicle	349,553	Sept. 21	1799	302	36	1322
Beebe, Henry C., Canton, Ill. Grain-drill	340,190	Apr. 20	1579	397	35	292
Beebe, Henry C., Canton, Ill. Grain-drill	347,813	Aug. 24	1903	521	36	852
Beebe, James F., New Haven, Conn. Clapboard-marker	344,937	July 6	195	50	36	36
Beebe, John S., assignor of one-half to D. Stearns and W. H. Liddle, Holden, Mo. Extensible stove-pipe	347,150	Aug. 10	935	249	36	645
Beebe, Joseph E., Adair, Iowa. Harrow draft-bar	336,375	Feb. 16	1857	487	34	784
Beebe, Joseph E., Adair, Iowa. Harrow-tooth holder	344,804	July 6	2	1	36	3
Beebe, Oscar, assignor of one-third to S. Mitchell, Hornellsville, N. Y. Sash-cord fastener	348,101	Aug. 24	2312	619	36	916
Beebe, Oscar, assignor of one-third to S. Mitchell, Hornellsville, N. Y. Sash-cord fastener	354,620	Dec. 21	1426	378	37	1279
Beebee, Henry, assignor to C. F. Waldron, Boston, Mass. Harness-ornament	337,732	Mar. 9	1141	296	34	1137
Beecher, Edwin N., Southington, Conn. Nut-tapping machine	340,191	Apr. 20	1570	397	35	293
Beecher, Edwin N., Southington, Conn. Machine for threading and pointing bolt-blanks	354,089	Dec. 14	633	173	37	1130
Beedle & Kelly Company. (See Doolittle, Merritt E., assignor.)						
Bechler, Charles W., assignor of one-half to H. Gans, Jr., St. Louis, Mo. Box-fastener	338,698	Mar. 30	2474	652	34	1398
Beehler, Charles W., assignor of one-half to W. H. Lonergan, St. Louis, Mo. Box-fastener	349,077	Sept. 14	743	190	36	1187
Beck, John O., Pleasant Plains, Ill. Cultivator-shovel	349,334	Sept. 21	1071	275	36	1259
Beeler, Charles H., Jr., Philadelphia, Pa. Bee-hive	348,308	Aug. 31	2615	704	36	980
Beeler, John, assignor of one-third to E. Coombe, Cincinnati, Ohio. Underground conduit	339,844	Apr. 13	1082	269	35	199
Beeman, William S., assignor of one-half to B. W. Davenport, Ashland, Wis. Oiler for wrist-pins	349,137	Sept. 14	829	211	36	1203
Beemer, Henry, Chillicothe, Mo. Car-coupling	352,640	Nov. 16	1273	343	37	710
Beer, Peter, Detroit, Mich. Match-machine	335,416	Feb. 2	461	119	34	523
Beerling, Henry E., Jackson, Mich. Centrifugal reel	338,466	Mar. 23	2150	562	34	1336
Beers, James L., New York, N. Y. Electric hotel call-bell system	338,697	Mar. 30	2471	652	34	1397
Beers, Philo M., Bridgeport, Conn. Needle-swaging machine	353,529	Nov. 30	2531	675 676	37	964
Beers, Philo M., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Needle-pointing machine	339,361	Apr 6	352	86, 87	35	66
Beers, Wheeler, Bridgeport, Conn. Attachment for lathes for turning crank-axles	312,895	June 1	168	43	33	1036
Beers, William F. (See Tull, Kuehn, and Beers.)						
Beesley, John S., Brookhaven, Miss. Line and trace carrier	353,618	Nov. 30	2670	715	37	990
Beeson, Isaac R. M. (See Shearer, Amanda E., assignor.)						
Beeson, Thomas B., Wilmington, Del. Roofing-tongs	343,422	June 8	963	240	35	1189
Beggs, Charles A., and C. S. Coxey, Rice Lake, Wis. Permutation-lock	345,270	July 13	655	167	36	125
Bégin, Louis N., Faribault, Minn. Rotary steam-engine	342,562	May 25	2221	590	35	941
Begole, Gordon W., Augusta, Mich. Machine for making slat and wire fences	348,184	Aug. 31	2443	656	36	946
Béguelin, Léopold, Tramelan, Bern, Switzerland. Universal watch	345,406	July 13	843	211	36	157
Behel, Aquilla O., Rockford, Ill., assignor to J. B. Young, Sioux Falls, Dak. Ter. Time-lock	335,174	Feb. 2	124	31, 32	34	463
Behlen, Charles A., Cincinnati, Ohio. Vehicle-spring	333,588	Jan. 5	124	34	34	26
Behlen, Charles A., Cincinnati, Ohio. Buggy-top	353,195	Nov. 23	2056	549	37	869
Behmer, Daniel, Santa Rosa, Cal. Saw-setting device	336,201	Feb. 16	1600	420	34	739
Behn, Henry A., Union Hill, N. J. Machine for winding sewing-machine-shuttle bobbins	345,208	July 6	559	143	36	101
Behr, Hans C., assignor of one-half to L. H. Heynemann, San Francisco, Cal. Valve-gear for steam-engines	348,309	Aug. 31	2616	705	36	980
Behrens, Henry C., Baltimore, Md. Fishing-line spreader	353,412	Nov. 30	2363	629	37	932
Behrens, William. (See Wachholz and Behrens.)						
Beidler, Henry M., Texarkana, Ark. Galvanic belt	335,417	Feb. 2	463	119	34	524
Beiermeister, Frederick, Jr., Troy, N. Y. Making collars	345,947	July 20	1644	423	36	308
Beiermeister, Frederick, Jr., Troy, N. Y. Collar	346,259	July 27	2081	535	36	399
Beiermeister, Frederick, Jr., Troy, N. Y. Shirt	354,375	Dec. 14	1062	284	37	1208
Beiersdorf, Jacob. (See Sugg, Beiersdorf, and Runte.)						
Beilby, George T., Midcalder, county of Mid-Lothian, Scotland. Separating solid paraffine from oils	344,709	June 29	2728	709	35	1533
Beisel, Franklin P., Pottstown, assignor of one-half to J. H. Egolf, Douglassville, Pa. Nut-lock	337,653	Mar. 9	1045	268	34	1121
Beiser, Charles W., Brooklyn, N. Y. Capping for fences	339,362	Apr. 6	360	87	35	67
Bekofsky, Vladimir S., Jenchuan, Corea. Brushing-machine	335,793	Feb. 9	1002	265	34	627
Belanski, Charles R., and H. Pitts, Nora Springs, Iowa. Ironing-board and plaiting-machine	344,805	July 6	4	1	36	3
Belcher, Frank S., *et al.* (See Jackle, Jacob, assignor.)						
Belcher, John B., *et al.* (See Jackle, Jacob, assignor.)						
Belcher, Orlando F., Winthrop, Mass. Device for crimping cartridge-shells	333,589	Jan. 5	125	34	34	26

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Belcher, Orlando F., Winthrop, Mass. Cartridge-loading machine	336,689	Feb. 23	2301	601 602	34	870
Belcher, Orlando F., Winthrop, Mass. Wad-feed attachment for cartridge-loading machines	337,117	Mar. 2	313	82	34	984
Belden, Annie M., Fairbury, Ill. Bustle	334,332	Jan. 12	1195	321	34	230
Belden, Emerson, assignor of one-half to A. Crampton, Green Island, N. Y. Planing-machine	337,654	May 9	1046	269	34	1121
Belden, Henry S., Canton, Ohio. Vapor-burner	354,300	Dec. 14	964	256	37	1188
Belden, Leslie, New York, N. Y. Hydraulic apparatus	337,118	Mar. 2	315	82	34	984
Belding, Thomas C., Waynesburg, assignor to T. C. Snyder, Canton, Ohio. Knee-cutter	343,400	June 1	464	118	35	1091
Belding, Thomas C., assignor to T. C. Snyder, Canton, Ohio. Rolling colter	351,687	Oct. 26	2300	597	37	440
Belfield, Henry, *et al.* (See Goehring, John R., assignor.)						
Belfield, T. Brown, *et al.* (See Goehring, John R., assignor.)						
Belisle, Robert S., assignor of part to T. Ott, C. D. Freeman, H. A. Duhring, and P. Scull, Philadelphia, Pa. Alarm mechanism for railway-switches	338,915	Mar. 30	2793	736	34	1455
Belisle, Robert S., assignor of three-fourths to H. A. Duhring and P. Scull, Philadelphia, Pa. Spring-gun	342,563	May 25	2222	591	35	942
Belk, John C., Tombstone, Ariz. Ter. Machine for covering wire and other cores	348,822	Sept. 7	376	102	36	1117
Belk, John C., assignor of one-half to R. F. Hafford, Tombstone, Ariz. Ter. Manufacturing textile fibers from the yucca or other cacti	336,376	Feb. 16	1857	.....	34	784
Belknap, Charles E., Grand Rapids, Mich. Sleigh-knee	338,384	Mar. 23	2039	535	34	1315
Belknap, Jackson, O., Mobile, Ala. Sign	354,621	Dec. 21	1428	378 379	37	1279
Belknap, Samuel C., Columbus, Ohio. Shoe-stay	346,458	Aug. 3	10	3	36	462
Bell, Alexander G. and C. A., and S. Tainter, Washington, D. C. Reproducing sounds from phonograph records	341,212	May 4	328	93	35	565
Bell, Alexander G. and C. A., and S. Tainter, Washington, D. C. Transmitting and recording sounds by radiant energy	341,213	May 4	332	93, 94	35	566
Bell, Alonzo, Philadelphia, Pa. Spring bed-bottom	336,202	Feb. 16	1601	420	34	739
Bell, B. Frank T., Washington, D. C. Machine for dovetailing balusters	350,575	Oct. 12	670	183	37	128
Bell, Catharine E., West Point, Miss. Heater for beds	354,764	Dec. 21	1634	433	37	1318
Bell, Charles L. O., Rolling Prairie, Ind. Vehicle-wheel	349,138	Sept. 14	830	211	36	1203
Bell, Charles S., *et al.* (See Crosby, Charles M., assignor.)						
Bell, Chichester A. (See Bell and Tainter.)						
Bell, Chichester A., Washington, D. C. Transmitter for electric telephone-lines	336,081	Feb. 16	1412	375	34	707
Bell, Chichester A., Washington, D. C. Jet microphone or apparatus for transmitting sounds by means of jets	336,082	Feb. 16	1417	375	34	707
Bell, Chichester A., Washington, D. C. Telephone-transmitter	336,083	Feb. 16	1419	375 376	34	707
Bell, Chichester A., Washington, D. C. Method of and apparatus for transmitting, reproducing, and recording speech	336,203	Feb. 16	1602	420 421	34	739
Bell, Chichester A., London, county of Middlesex, England. System of telephonic communication	346,708	Aug. 3	324	89	36	524
Bell, Chichester A., and S. Tainter, Washington, D. C. Recording and reproducing speech and other sounds	341,214	May 4	336	94, 95	35	567
Bell, Edwin C. (See Barnsdall and Bell.)						
Bell, George A., Morley, Mo. Equalizing-ventilator	348,102	Aug. 24	2312	620	36	916
Bell, George W., St. Joseph, Mo. Truss	340,085	Apr. 20	1414	358	35	264
Bell, Henry. (See Fouerden and Bell.)						
Bell, James I. J. (See Wortham and Bell.)						
Bell, Jesse. (See Williams, Reynolds, and Bell.)						
Bell, John B., Pittsburg, Pa. Washing-machine	335,880	Feb. 9	1123	297	34	649
Bell, Webster, Boston, Mass. Stem-winding mechanism for watches	344,026	June 22	1797	463	35	1355
Bell, William, Verona, Miss. Fence	349,559	Sept. 21	1400	362	36	1322
Bell, William H. (See Brown and Bell.)						
Bell, William N., Morenci, Mich. Horse-block	336,986	Mar. 2	136	37	34	950
Bell, William W., Valley Springs, Dak. Ter. Buckle	354,528	Dec. 21	1279	341	37	1253
Bellamy, Charles T., Prompton, Pa. Follower for packing barrels	336,690	Feb. 23	2303	602	34	870
Bellamy, James E., *et al.* (See Henry, John, assignor.)						
Bellerjeau, John, Philadelphia, Pa. Manure-pouch	342,171	May 18	1615	440	35	830
Belleville, Julien F., Paris, France. Steam-generator	336,282	Feb. 16	1729	452 453	34	759
Belleville, Julien F., Paris, France. Feed-water heater	336,283	Feb. 16	1733	453 454	34	760
Bellows, Daniel A., Mulberry, Ga. Millstone-bush	337,418	Feb. 2	464	119	34	524
Bellrood, William F., Madison, Dak. Ter. Type-galley	336,377	Feb. 16	1859	487	34	784
Bellstedt, Carl, assignor of one-half to W. Schmidt, Chicago, Ill. Baker's oven	341,874	May 18	1248	334	35	757
Belmont, Sigmund. (See Bovee and Belmont.)						
Belt, Perley P., Columbus, Kans. Automatic cut-out and lightning-arrester	339,363	Apr. 6	360	88	35	67
Belt, Perley P., Columbus, Kans. Rotary engine	345,875	July 20	1542	398 399	36	289
Belt, Samuel, assignor of one-half to W. C. Mattex and W. T. Arnold, Elberton, Ga. Combined harrow, cotton-chopper, and cultivator	347,765	Aug. 24	1824	486	36	825
Beman, George N., G. C. Beckwith, Boston, and A. M. Wood, Somerville, Mass. Carriage-body	341,215	May 4	344	95	35	568
Bemendefer, Henry F., Bloomville, Ohio. Calcimine compound	350,652	Oct. 12	788	.....	37	150
Bemis, George W., Worcester, Mass. Snare-drum	342,062	May 18	1504	402	35	803
Bemis, Harry E., Spencer, Mass. Lamp-bracket	342,997	June 1	303	78	35	1062
Bemis, John A., Oneida, N. Y. Stocking-supporter	338,467	Mar. 23	2151	562	34	1336
Benary, Robert H., New York, N. Y. Tail-piece for banjos	334,734	Jan. 26	1756	468	34	346
Benary's Sons, Henry. (See Dobson, Charles E., assignor.)						
Benbow, Charles D. (See Farrar, William B., assignor.)						
Benbow, John, assignor of one-half to Hayes Manufacturing Company, Cleveland, Ohio. Wire-drawing block	346,709	Aug. 3	328	89	36	525
Benda, Sydney. (See Roberts, Frank W., assignor.)						
Bender, Fritz, assignor to A. Leonhardt & Co., Mühlheim, Hesse, Germany. Production of yellow azo coloring-matter	341,991	May 18	1396	.....	35	783
Bender, Fritz, assignor to A. Leonhardt & Co., Mühlheim, Hessen, Germany. Production of yellow coloring-matter	344,075	June 22	1875	.....	35	1369
Bender, Fritz, assignor to A. Leonhardt & Co., Mühlheim, Hesse, Germany. Yellow coloring-matter	350,229	Oct. 5	186	.....	37	38
Bender, Fritz, assignor to A. Leonhardt & Co., Mühlheim, Hesse, Germany. Red coloring-matter	350,230	Oct. 5	186	.....	37	38
Bender, Henry C., Montgomeryville, Pa. Ship's propeller	334,632	Jan. 19	1614	430	34	312

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Bender, John T. (See Baker and Bender.)						
Bender, John T. (See Ball and Bender.)						
Bender, Leonard, Elizabethville, Pa. Sleigh	333,117	Nov. 23	1936	519	37	845
Bendix, Josef, Berlin, Germany. Filtering alcohol	333,721	Jan. 5	313	86	34	58
Benedict & Burnham Manufacturing Company. (See Potter, George H., assignor.)						
Benedict, Charles E. (See Barnard and Benedict.)						
Benedict, Emory J., Dell Rapids, Dak. Ter. Machine for measuring and winding cloth	341,722	May 11	1045	277	35	710
Benedict, George S., Mayflower, Ark. Device for taking down and putting up and stretching wire	339,256	Apr. 6	205	52	35	38
Benedict, H. H., *et al.* (See Hall, Alvin O., assignor.)						
Benedict, Marsena, New York, N. Y. Seat	337,364	Mar. 9	646	171	34	1052
Benedict, Read, West New Brighton, N. Y. Collar or cuff button or stud	347,555	Aug. 17	1513	402	36	760
Benedict, Washington G. (See Bartlett, Wallace A., assignor.)						
Bencke, John O., New Orleans, La. Combined dust-pan and ash-sifter	337,550	Mar. 9	925	237	34	1099
Benett, David, Andalusia, Pa. Harvester-cutter	348,261	Aug. 31	2551	686	36	966
Bengert, John F., Brooklyn, N. Y. Revolving sign	334,557	Jan. 19	1512	405	34	299
Bengler, Edwin F. (See Grier and Bengler.)						
Benham, Cornelius W., assignor of one-half to W. E. Fanson, Enterprise, Kans. Feeder for thrashing-machines	335,988	Feb. 9	1268	336	34	674
Benham, Elijah B., assignor of one-half to R. M. Fairfield, Holyoke, Mass. Friction-clutch pulley	339,845	Apr. 13	1084	269	35	199
Benham, Elijah B., assignor to R. M. Fairfield, Holyoke, Mass. Motor	341,828	May 11	1181	316	35	736
Benham, Elijah B., assignor of two-thirds to R. M. Fairfield and R. T. Oakes, Holyoke, Mass. Balanced valve	341,827	May 11	1179	315	35	736
Benham, Henry H. (See Benham, Henry W., assignor.)						
Benham, Henry W., deceased; J. A. Beall, New York, and C. W. Sloane, Sands Point, N. Y., executors, and assignors to H. H. Benham, U. S. Army. Device for pulling on boots	335,415	Feb. 2	460	119	34	523
Benington, Walter. (See Veilleux and Benington.)						
Benjamin, Edwin, South Evanston, Ill. Band-saw mill	334,735	Jan. 26	1757	468	34	346
Benjamin, Edwin P., Minetto, assignor of one-half to Minetto Shade Cloth Company, Oswego, N. Y. Making gelatine printing-rolls	350,653	Oct. 12	789	214	37	150
Benjamin, Edwin P., Minetto, assignor of one-half to Minetto Shade Cloth Company, Oswego, N. Y. Making matrices for printing-rollers	350,654	Oct. 12	790	215	37	150
Benjamin, George H., *et al.* (See Thury, René, assignor.)						
Benjamin, William, assignor, by mesne assignments, to J. Blaum, Brooklyn, N. Y. Wheelbarrow	349,681	Sept. 28	1558	404	36	1362
Benn, Arthur, Great Horton, and P. Firth, Lidget Green, county of York, England. Apparatus for distributing oil, &c., upon fibrous substances	352,390	Nov. 9	950	254 255	37	643
Benner, Daniel G., Holmesville, assignor of one-half to J. Laylander, Millersburg, Ohio. Lid and beater mechanism for washing-machines	349,682	Sept. 28	1559	404	36	1362
Benner, Willis, St. Paul, Minn. Dark-lantern	339,846	Apr. 13	1085	270	35	199
Bennet, William H., Brooklyn, N. Y. Harness-pad	343,424	June 8	966	241	35	1190
Bennett, Allan T., Chicago, Ill. Fire-place	342,776	June 1	4	2	35	1067
Bennett, Benjamin F., Lockport, N. Y. Jointed boat-oar	336,886	Mar. 2	4	2	34	927
Bennett, Delbert F., San Francisco, Cal. Vaginal syringe	350,105	Oct. 5	14	4	37	6
Bennett, Edward A., Weston, W. Va. Arm-rest	349,974	Sept. 28	1972	511	36	1439
Bennett, Edward O., San Francisco, assignor to E. L. Hutchinson and A. T. Ayres, Alameda, Cal. Button-hole attachment for sewing-machines	342,418	May 25	2020	532 533	35	904
Bennett, Edwin, Baltimore, Md. Roofing-tile	351,956	Nov. 2	327	91	37	519
Bennett, Edwin, Rio de Janeiro, Brazil, assignor of one-half to R. Lavery, Boston, Mass. Screw-propeller	345,761	July 20	1391	361	36	263
Bennett, Eleazer C., East Bridgewater, Mass. Machine for forming and driving compound pegs	336,547	Feb. 23	2088	548 549 550	34	832
Bennett, Eleazer C., East Bridgewater, Mass. Uniting the soles and uppers of boots or shoes	336,548	Feb. 23	2093	550	34	832
Bennett, Franklin, assignor of one-third to L. S. Zimmerman, Marshallville, Ohio. Drilling-machine	338,021	Mar. 16	1548	401	34	1216
Bennett, George, G. Dike, and W. W. Rich, Lincoln, Nebr. Railway-switch	347,987	Aug. 24	2151	572	36	885
Bennett, Grant S. (See Scott and Bennett.)						
Bennett, Henry A., New Haven, Conn. Sash-fastener	346,142	July 27	1916	495	36	367
Bennett, Herbert B. S. (See Stiff and Bennett.)						
Bennett, James F., and B. B. Smith, Sheffield, county of York, England. Draftsman's compasses	349,203	Sept. 14	913	234	36	1219
Bennett, John H., New Hampton, Iowa. Snow-plow	354,675	Dec. 21	1507	399	37	1294
Bennett, John M., assignor to S. C. Tatum & Co., Cincinnati, Ohio. Barrel-truck	336,630	Feb. 23	2199	574	34	850
Bennett, John Q. A., Bellefontaine, Ohio. Device for locking coffins	350,032	Sept. 28	2051	529	36	1454
Bennett, Joseph F., Pellville, Ky. Riding-saddle	355,123	Dec. 28	2136	561	37	1425
Bennett, Livingston O., Baltimore, Md. Dumping-wagon	334,633	Jan. 19	1615	430	34	313
Bennett, Orson W., assignor of one-half to J. Sherman, Washington, D. C. Automatic gas-generator	336,378	Feb. 16	1859	487	34	784
Bennett, Peter A., New York, N. Y. Bottle-washer	355,054	Dec. 28	2036	535	37	1405
Bennett, Phineas A., assignor of one-half to T. Bennett, Chicago, Ill. Lubricator	347,284	Aug. 10	1115	299	36	678
Bennett, Thomas. (See Bennett, Phineas A., assignor.)						
Bennett, Thomas G., assignor to Winchester Repeating Arms Company, New Haven, Conn. Magazine fire-arm	343,423	June 8	964	241	35	1189
Bennett, Thomas G., assignor to Winchester Repeating Arms Company, New Haven, Conn. Breech-loading fire-arm	352,292	Nov. 9	826	221	37	617
Bennett, Thomas G., assignor to Winchester Repeating Arms Company, New Haven, Conn. Projectile	354,376	Dec. 14	1063	284	37	1208
Bennett, Thomas G., assignor to Winchester Repeating Arms Company, New Haven, Conn. Sight for fire-arms	355,121	Dec. 28	2133	560	37	1425
Bennett, Thomas G., assignor to Winchester Repeating Arms Company, New Haven, Conn. Resizing implement for cartridges	355,122	Dec. 28	2134	561	37	1425
Bennett, Walter E. (See Cummings, Bennett, and Thompson.)						
Bennett, Walter E., assignor of one-third to E. P. Mervin, Boston, Mass. Button boot or shoe	344,710	June 29	2730	709	35	1534
Bennett, Walter E., assignor to Morley Sewing Machine Company, Boston, Mass. Stitching shank-buttons to fabric or leather	343,941	June 15	1668	428	35	1326
Bennett, William G., Sharpsburg, Pa. Alarm-lock	344,806	July 6	5	2	36	3
Bennett, William G., Sharpsburg, Pa. Window-lock and burglar-alarm	344,807	July 6	6	2	36	4
Bennett, William G., Sharpsburg, Pa. Alarm-lock	348,262	Aug. 31	2552	686	36	966
Bennett, William H., Peru, Ind. Saw-mill dog	335,419	Feb. 2	465	120	34	524

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bennett, William R. (See Hazlet and Bennett.)						
Bennett, William W., New York, N. Y. Manufacture of paper from the tobacco-plant	346,887	Aug. 10	553	.....	36	575
Benninger, John A., Louisville, Ky. System for preventing vessels from sinking	350,184	Oct. 5	122	34, 35	37	26
Benninghoff, George E., Kendall Creek, Pa. Apparatus for and process of supplying air and gas	344,616	June 29	2615	678	35	1513
Benninghoff, George E., and C. F. Jewell, Kendall Creek, Pa. Heat-producing apparatus	344,615	June 29	2613	677	35	1512
Benns, George, Chicago, Ill., assignor of one-half to J. J. Mitchell, New York, N. Y. Heating-stove	335,420	Feb. 2	466	120	34	524
Benns, George, Chicago, Ill., assignor of one-half to J. J. Mitchell, New York, N. Y. Flat-iron heater	335,421	Feb. 2	467	130	34	525
Benoit, Alphonse, Chaux-de-Fonds, Switzerland. Watch	338,385	Mar. 23	2040	535	34	1316
Benoit, Frederick, Chicago, Ill. Thill-tug	340,654	Apr. 27	2231	585	35	419
Benoit, Frederick, Chicago, Ill. Harness-buckle	348,310	Aug. 31	2617	980	36	980
Benoit, John P., Detroit, Mich. Balance-piston	352,293	Nov. 9	828	222	37	618
Benschoter, Charles W., Grand Rapids, Ohio. Farm-gate	347,152	Aug. 10	937	250	36	646
Bensmann, Hermann, Minster, Ohio. Running-gear for wagons	345,661	July 20	1246	323	36	237
Benson, Arza M., Cleveland, Ohio. Key-seat cutter	335,333	Feb. 2	346	90	34	503
Benson, Benjamin S., Baltimore, Md. Traction-engine	334,333	Jan. 12	1196	321, 322, 323	34	230
Benson, Benjamin S., Baltimore, Md. Surface-condenser	346,348	July 27	2199	563, 564	36	420
Benson, Daniel. (See Payne and Benson.)						
Benson, Finley E., Lake Park, Iowa. Animal-poke	354,676	Dec. 21	1509	400	37	1294
Benson, Henry C., assignor to Eagle Pencil Company, New York, N. Y. Pencil-clasp	333,590	Jan. 5	127	35	34	36
Benson, Joseph, Cantron, Iowa. Hay-elevator	347,680	Aug. 17	1706	455	36	796
Benson, Pinckney P., Little Rock, Ark. Planter	351,020	Oct. 19	1329	349	37	256
Benson, Pinckney P., Little Rock, Ark. Plow	351,420	Oct. 26	1907	496	37	365
Benson, Samuel J., Boulder Creek, Cal. Pipe-wrench	345,567	July 13	1100	281	36	203
Benson, Samuel J., and A. D. Hollis, Boulder Creek, Cal. Reversible plow	353,347	Nov. 30	2259	604	37	913
Benstead, Thomas. (See Greig and Benstead.)						
Benster, Joshua G., Duncan, Nebr. Windmill	336,784	Feb. 23	2419	636	34	892
Benster, Solomon S., Toledo, Ohio. Attachment for cameras	339,731	Apr. 13	935	229	35	171
Bent, George P. (See Sabey, Anton C., assignor.)						
Bentel, Frederick, assignor to J. W. Sohn, Hamilton, Ohio. Horse hay-rake	343,693	June 15	1349	337	35	1264
Bentel, Frederick, assignor to J. W. Sohn, Hamilton, Ohio. Horse hay-rake	353,397	Nov. 30	2338	625	37	927
Bentel, Frederick, and J. T. Gardner, assignors to J. W. Sohn, Hamilton, Ohio. Horse hay-rake	343,692	June 15	1348	337	35	1264
Bentley, Charles D., Eaton Rapids, Mich. Acoustic telephone	334,069	Jan. 12	796	219	34	156
Bentley, Charles E., New York, N. Y. Perforating-machine	343,752	June 15	1442	359	35	1281
Bentley, Edward M., Brooklyn, N. Y. Electric railway	338,022	Mar. 16	1549	401	34	1217
Bentley, Edward M., Brooklyn, N. Y. Electric motor	338,023	Mar. 16	1551	401	34	1217
Bentley, Edward M., Brooklyn, N. Y. Electric railway	343,101	June 1	465	118	35	1091
Bentley, Edward M., Brooklyn, N. Y. Electric railway	343,884	June 15	1601	407	35	1312
Bentley, John, Manchester, county of Lancaster, England. Box for alimentary and other substances	335,881	Feb. 9	1125	297	34	649
Bentley, Manton T. (See Atherton and Bentley.)						
Bentley, Richard, Corning, Iowa. Chicken-house	336,379	Feb. 16	1861	488	34	785
Benton, Charles H., Cleveland, Ohio. Valve-gear	344,027	June 22	1798	463	35	1355
Benton, Charles H., assignor to O. B. Benton, Cleveland, Ohio. Pantaloons-stretcher	352,106	Nov. 2	548	145	37	561
Benton, George L., Titusville, Pa. Refining crude petroleum-oil	342,564	May 25	2223	591	35	942
Benton, George L., Titusville, Pa. Apparatus for refining crude petroleum	342,565	May 25	2225	591	35	942
Benton, Herbert A., Farmington, Cal. Combined header and thrasher	338,699	Mar. 30	2475	653, 654	34	1398
Benton, Olis B. (See Benton, Charles H., assignor.)						
Benton, Samuel, assignor of one-half to W. H. Delano, Baltimore, Md. Sash-holder	348,103	Aug. 24	2313	620	36	916
Berchtold, Otto C. (See Senior, Luke, assignor.)						
Berchtold, Rudolf, assignor to W. P., C. C., and E. P. Townsend, New Brighton, Pa. Die for barbing wire nails	343,425	June 8	967	241	35	1190
Beretz, Ludwig, assignor of one-half to C. Stolzle's Söhne, Vienna, Austria-Hungary. Soda-water apparatus	334,159	Jan. 12	937	253	34	181
Berg, August J., and F. A. Anderson, Chicago, Ill. Refrigerator-car	342,419	May 25	2024	534	35	905
Berg, Johann, Nuremberg, Germany. Screw-tap	347,864	Aug. 24	1965	521	36	853
Bergan, John A., Holden, Mass., assignor to J. H. Williams, Utica, N. Y. Loom-shuttle	350,341	Oct. 5	324	92	37	66
Berge, Salomon, New York, N. Y. Papeterie and writing-desk	353,774	Dec. 7	166	46	37	1038
Bergendahl, Lewis J., Pendleton, Oreg. Track-clearer	342,566	May 25	2227	591	35	942
Bergener, Charles, Rochester, N. Y. Lantern	354,090	Dec. 14	636	173	37	1131
Bergenheim, Gottfrid, South Butte, Cal. Wash-boiler	334,736	Jan. 26	1758	468, 469	34	347
Berger, Franz X. (See Amon and Berger.)						
Berger, Richard A., Baltimore, Md. Breech-loading fire-arm	340,192	Apr. 20	1571	397, 398	35	293
Berger, William H., Philadelphia, Pa. Eaves-trough hanger	339,847	Apr. 13	1086	270	35	199
Berger, William H., Philadelphia, Pa. Eaves-trough hanger	344,236	June 22	2094	535	35	1409
Berger, William H., Philadelphia, Pa. Eaves-trough hanger	345,102	July 6	420	108	36	77
Berger, William H., Philadelphia, Pa. Conductor-hook	345,477	July 13	945	238	36	175
Berger, Wilson C., Canton, Ohio. Eaves-trough	334,160	Jan. 12	939	254	34	181
Berger, Wilson C., Canton, Ohio. Eaves-trough hanger	350,909	Oct. 19	1146	305	37	223
Bergeron, Seraphin E., Butte City, Mont. Ter. Clothes-pin	353,619	Nov. 30	2671	716	37	990
Bergh, Bror F., New York, N. Y. Hand-truck	334,505	Jan. 19	1438	386	34	280
Bergh, Bror F., assignor, by mesne assignments, to Standard Hand Rock Drill Company, New York, N. Y. Rock drill machine	349,560	Sept. 21	1401	363	36	1322
Berghauer, Herman, Chicago, Ill. Door and bell knob	341,442	May 11	658	178	35	634
Bergman, Henry J. (See Dougherty, Tiberias, assignor.)						
Bergman, Isaac, Baltimore, Md. Horse-collar	354,377	Dec. 14	1064	285	37	1208
Bergman, Martin L., Buena Vista, Oreg. Road-cart	341,216	May 4	345	96	35	568
Bergmann & Company. (See Bergmann, Sigmund, assignor.)						
Bergmann & Company. (See Johnson, Edward H., assignor.)						
Bergmann & Company. (See Klein, Philip H., Jr., assignor.)						
Bergmann, Sigmund. (See Edison, Thomas A., assignor.)						
Bergmann, Sigmund, New York, N. Y. Telephone	337,231	Mar. 2	466	121	34	1012
Bergmann, Sigmund, New York, N. Y. Telephone-receiver	337,232	Mar. 2	467	122	34	1012
Bergmann, Sigmund, New York, N. Y. Electrical switch	341,723	May 11	1047	277, 278	35	711

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Bergmann, Sigmund, New York, N. Y. Telephone	344,938	July 6	196	50	36	36
Bergmann, Sigmund, assignor to Bergmann & Co., New York, N. Y. Electric-light fixture	337,296	Mar. 2	560	147	34	1029
Bergmann, Sigmund, New York, N. Y., assignor to Bergmann & Company. Carrier for pneumatic transmission	340,477	Apr. 20	1969	506	35	366
Bergner, Serena, *et al.*, executors. (See Bergner, Theodore.)						
Bergner, Theodore, deceased; S. Bergner and C. E. Sajous, executors, Philadelphia, Pa. Dumping furnace-grate	349,423	Sept. 21	1216	316	36	1286
Bergquest, Frank J., Minneapolis, Minn. Wood-jointer	341,875	May 18	1249	335	35	757
Bergstresser, Samuel, Philadelphia, Pa. Covering for feed-rolls of spinning machinery	333,813	Jan. 5	432	117	34	81
Berkey, Julius, and W. R. Fox, Grand Rapids, Mich.; said Fox assignor of one-half his right to said Berkey. Furniture-caster	345,613	July 13	1156	296	36	214
Berliner, Emile, Washington, D. C. Telephone-transmitter	340,853	Apr. 27	2496	657	35	466
Berliner, Emile, Washington, D. C. Telephone-transmitter	344,514	June 29	2485	640	35	1486
Berliner, Emile, Washington, D. C. Spongy-carbon battery	347,623	Aug. 10	746	199	36	610
Berliner, Emile, Washington, D. C. Telephone-transmitter	351,569	Oct. 26	2125	550	37	408
Bernadac, Jean, New Iberia, La. Horseshoer's knife	343,426	June 8	968	242	35	1190
Bernadac, Jean, New Iberia, La. Hoof-trimming device	343,427	June 8	969	242	35	1190
Bernard, Philippe, assignor to W. C. De Pauw, New Albany, Ind. Machine for polishing glass	348,311	Aug. 31	2618	705	36	980
Bernard, William M. (See Coon, Hedges, and Bernard.)						
Bernd, Gustave, Macon, Ga. Snap-hook	339,039	Mar. 30	2973	786	34	1486
Berndt, Henry, *et al.* (See Long, William, assignor.)						
Bernhard, Charles, New York, N. Y. Propeller	351,152	Oct. 19	1504	394	37	288
Bernhardt, Charles, assignor of two-thirds to M. J. Kenny and G. J. Adam, Chicago, Ill. Chain-gearing	342,567	May 25	2228	592	35	942
Bernhardt, Charles, assignor of two-thirds to M. J. Kenny and G. J. Adam, Chicago, Ill. Awning	342,568	May 25	2229	592	35	943
Bernier, Armenigle. (See Felten, William F., assignor.)						
Berninghaus, Eugene. (See Heine, Frederick, assignor.)						
Bernsee, Christian D., Brooklyn, N. Y. Watchman's pneumatic time-detector	349,780	Sept. 28	1719	443 / 444	36	1389
Bernstein, Adolph, and A. Goldstein, assignors of one-sixth to A. Fink, Pittsburg, Pa. Safety appliance for railways	346,018	July 20	1750	450	36	326
Bernstein, Alexander, London, England. Electric switch	343,266	June 8	715	178	35	1145
Bernstein, Samuel, *et al.* (See Douglas, Edward J., assignor.)						
Bernz, Otto, Newark, N. J. Pull-handle	344,617	June 29	2617	678	35	1513
Berray, Edward P., C. W. Shepard, and H. White, Walton, N. Y. Spring bed-bottom	347,556	Aug. 17	1513	402	36	760
Berrenberg, Adolph. (See Berrenberg, William and A.)						
Berrenberg, William, Boston, Mass. Rotary engine	351,957	Nov. 2	328	91	37	519
Berrenberg, William and A., Boston, Mass., assignors to Positive Pump and Water Meter Company, Kittery, Me. Rotary engine	337,551	Mar. 9	926	237	34	1099
Berrien, Leonard B. (See Avery and Berrien.)						
Berrien, Leonard B., assignor to Avery Planter Company, Peoria, Ill. Corn-planter	335,205	Feb. 2	167	43, 44	34	471
Berringer, Shubael R. (See Waltz, George W., assignor.)						
Berry, Chris. (See Rogers, Cyrus S., assignor.)						
Berry, Henry C., Wauseon, Ohio. Heating apparatus	345,876	July 20	1543	399	36	289
Berry, Hiram. (See Rothchild, Joseph, assignor.)						
Berry, Joe, Springfield, Mass. Stop-valve	348,104	Aug. 24	2315	620 / 621	36	917
Berry, John, Biddeford, Me. Percolator	342,998	June 1	304	78	35	1062
Berry, John, assignor to National Needle Company, Springfield, Mass. Machine for swaging metal bars	337,297	Mar. 2	561	148	34	1029
Berry, John A. (See Dyer and Berry.)						
Berry, Julia B., New York, N. Y. Manufacture of fabric for hats, &c.	339,521	Apr. 6	589	142	35	108
Berry, Mary H., and F. H. Butler, San Francisco, Cal. Ointment	334,634	Jan. 19	1616	.....	34	313
Berry, Michael J., Bradford, Pa. Gas-regulator	343,359	June 8	873	220	35	1173
Berry, Robert, and J. C. Parker, Brockport, N. Y. Stove-leg	346,888	Aug. 10	556	150	36	576
Berry, William M., Tavern, Mo. Fence	343,157	June 8	559	141	35	1117
Berry, William M., Tavern, Mo. Fence	355,249	Dec. 28	2322	611	37	1462
Berryhill, Andrew J. (See Shropshire and Berryhill.)						
Bersch, John, Kingston, Pa. Car-coupling	354,677	Dec. 21	1509	400	37	1294
Berthon, Pierre, and A. Debenoit, St. Etienne, Loire, France. Piston water-meter	338,243	Mar. 23	1838	483 / 484	34	1281
Bertram, Alexander, Toronto, Ontario, Canada. Saw	336,380	Feb. 16	1862	488	34	785
Bertrand, François X. (See Morison and Bertrand.)						
Bertrang, Mat. B., Arlington, Minn. Bob-sleigh	344,711	June 29	2731	710	35	1534
Bertsch, Charles A., *et al.* (See Wais, Christian, assignor.)						
Bertsch, Charles A., Cambridge City, Ind. Metal-shearing machine	351,619	Oct. 26	2205	570	37	421
Bertsch, John J., *et al.* (See Wais, Christian, assignor.)						
Bertsch, Vincent. (See Almorth, Gustaf, assignor.)						
Bessa, Emil H., *et al.* (See Wurzner, Joseph, assignor.)						
Besse, Irwin, Newburyport, Mass. Key-ring	345,407	July 13	845	211	36	157
Bèssier, Vetal, assignor to himself and J. Ammon, New York, N. Y. Pianissimo-stop for piano-fortes	337,552	Mar. 9	927	237	34	1099
Besson, Hyppolite, and E. N. Kent, Bethnel Green, London, county of Middlesex, England. Device for holding glass while being ground or polished	349,204	Sept. 14	914	235	36	1219
Best, William J., *et al.* (See Hunter, Thomas M., assignor.)						
Beswick, Samuel T., Blair, Wis. Sleigh	351,089	Oct. 19	1420	372	37	272
Bethel, John. (See Sewell, Hulton, and Bethel.)						
Bethell, Lionel B., Chelsea Lodge, Tite Street, Chelsea Embankment, London, England. Carving-fork	334,841	Jan. 26	1887	502	34	471
Betsinger, Nicholas N., Marcellus, N. Y. Bee-hive	349,078	Sept. 14	794	190	36	1187
Betteley, Albert, Boston, Mass. Hoisting and conveying apparatus	351,021	Oct. 19	1330	349 / 350	37	256
Betteley, Albert, Boston, Mass. Hoisting apparatus	351,022	Oct. 19	1332	350	37	256
Bettendorf, William P., Peru, Ill. Machine for securing spokes in wheels	335,882	Feb. 9	1125	297 / 298	34	649
Bettis, William I., assignor of one-half to D. Morrison, Orange, Tex. Balanced slide-valve	350,718	Oct. 12	875	235	37	166
Betts, Lewis F., assignor to F. Dietz, New York, N. Y. Manufacture of tubular parts of lantern-frames	340,274	Apr. 20	1692	431 / 432	35	314
Betts, Lewis F., assignor of one-half to R. E. Dietz, New York, N. Y. Reflector and attachment for lanterns	343,792	June 15	1485	373	35	1290
Betts, Robert W., assignor to S. Crump, Montclair, N. J. Box	334,506	Jan. 19	1440	387	34	280

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Betts, Stephen N., Adams, Mich. Casing for hot-air furnaces	333,989	Jan. 12	678	185	34	135
Bettschen, Gottlieb, Wilmot, county of Waterloo, Ontario, Canada. Cultivator	347,083	Aug. 10	843	224	36	628
Betz, William, *et al.* (See Swanger, David, assignor.)						
Beuchler, Richard A. (See Bowden, Charles W., assignor.)						
Beuchler, Richard A. (See Bowden and Beuchler.)						
Beuerlein, Peter, Newtown, N. Y. Artificial mother	335,422	Feb. 2	469	121	34	525
Beutel, Jacob, assignor to C. Gousset and F. Eller, New York, N. Y. Confectioner's dropping-tube	347,460	Aug. 17	1382	367	36	735
Beutner, George F. (See Latenlère, Albert A., assignor.)						
Beuttel, Carl, Cincinnati, Ohio. Self-supporting combination-pavement	347,557	Aug. 17	1514	402	36	760
Beuttell, Henry, Halifax, county of York, England. Bedstead	337,655	Mar. 9	1048	269	34	1121
Beuttell, Henry, Halifax, county of York, England. Metallic bedstead	351,038	Oct. 19	1350	355	37	259
Bevan, Cyril M. (See Hill and Bevan.)						
Bevans, Thomas R., Kalamazoo, Mich. Spring-vehicle	351,826	Nov. 2	133	37	37	483
Beverly, Sarah M. (See Millard, Sarah M. B.)						
Bevier, James, assignor of two-thirds to C. F. Hankey and R. C. Dart, Petoskey, Mich. Speed-regulating device	338,916	Mar. 30	2794	736	34	1455
Bevington, James H., Cleveland, Ohio. Torpedo-adjuster	340,275	Apr. 20	1695	432	35	315
Bew, Charles, Angola, Ind. Two-wheeled vehicle	348,448	Aug. 31	2808	755	36	1017
Bex, Frederick, and E. F. Heunsch, Washington, D. C. Two-wheeled cab	336,467	Feb. 16	1983	519	34	806
Bex, Frederick, and E. F. Heunsch, Washington, D. C. Top for two-wheeled vehicles	349,079	Sept. 14	746	100	36	1187
Beyer, Ira, and A. E. Rohde, Mishicot, Wis. Cow-milking machine	347,558	Aug. 17	1515	402 / 403	36	760
Beyerle, Frank B., New York, N. Y. Shank-lasting apparatus	343,360	June 8	874	220	35	1173
Bickel, John F. (See McCarty, Harry C., assignor.)						
Bickerstaff, Docter W., Cochranton, Pa. Sheep-feeding rack	333,722	Jan. 5	314	86	34	59
Bickford, Henry A., Springfield, Mass. Card-rack	342,316	May 25	1869	495	35	879
Bickford, John H., assignor of one-third to S. F. Smith, Salem, Mass. Automatic telephone-exchange system	349,975	Sept. 28	1974	511	36	1439
Bickford, John H., assignor of one-third to S. F. Smith, Salem, Mass. Automatic telephone-exchange system	349,976	Sept. 28	1980	512	36	1440
Bickford, John H., assignor of one-third to S. F. Smith, Salem, Mass. Signaling apparatus for railway-trains	355,055	Dec. 28	2037	535 / 536	37	1405
Bickford, John L., Brooklyn, assignor to Copeland Manufacturing Company, New York, N. Y. Railway-gate	345,568	July 13	1101	281	36	203
Bickford, Lyman, *et al.* (See Armitage, Albert, assignor.)						
Bickford, Lyman, *et al.* (See Gallup, Silas N., assignor.)						
Bicknell, William A. P., assignor to D. S. Hines, W. A. Perry, and C. C. Worthington, New York, N. Y. Piston-rod packing	338,700	Mar. 30	2477	654	34	1399
Bicknell, William A. P., assignor to W. A. Perry and C. C. Worthington, New York, N. Y. Pumping-engine	354,691	Dec. 14	637	173 / 174	37	1131
Biddle, Clement M., Philadelphia, Pa. Refrigerator	347,560	Aug. 17	1520	404	36	761
Biddle, George W., Centralia, Ill. Convolute spring-heel	349,683	Sept. 28	1560	404	36	1362
Bidmead, Joseph, assignor to Bridgeport Elastic Web Company, Bridgeport, Conn. Elastic fabric	351,570	Oct. 26	2126	550	37	408
Bidwell, Julius A., Ivanpah, Cal. Ore-grinding pan	336,691	Feb. 23	2304	602	34	870
Bidwell, Julius A., Ivanpah, Cal. Attachment for amalgamating-pans	336,692	Feb. 23	2304	602	34	870
Bidwell, William F., Troy, N. Y. King-bolt for vehicles	343,428	June 8	970	242	35	1190
Biedinger, Charles G., Cincinnati, Ohio. Bottle-wrapper	342,818	June 1	57	14	35	1016
Biehl, Lorenz, New York, N. Y. Toy balloon	344,515	June 29	2487	640	35	1486
Biehl, Lorenz, New York, N. Y. Fan	350,614	Oct. 12	726	197	37	140
Bielefeld, Frank G. (See Armour and Bielefeld.)						
Bielefeldt, Max, Kalk, near Cologne, Germany. Explosive compound	340,276	Apr. 20	1696	.....	35	315
Bielschowski, Oscar, New York, N. Y. Dyeing cotton fiber	343,793	June 15	1487	.....	35	1290
Bien, Hermann, M., Vicksburg, Miss. Automatic fan for furniture	335,883	Feb. 9	1132	298	34	650
Bien, Joseph, San Francisco, Cal. Fire-escape	336,887	Mar. 2	5	2	34	937
Bien, Joseph, New York, N. Y. Fire-escape	350,473	Oct. 12	528	147 / 148	37	105
Bierbach, Albert G., assignor of one-half to H. Riggs, Milwaukee, Wis. Tramway	339,257	Apr. 6	207	52	35	39
Bierce, Calvin A., *et al.* (See Jeffrey and Liver, assignors.)						
Bierley, Henry A., Manchester, Ohio. Door-bell	347,221	Aug. 10	1030	275	36	662
Bierley, Henry A., Manchester, Ohio. Hand and foot warmer	350,342	Oct. 5	325	92	37	66
Bierley, John, Newark, Ohio. Heating-stove	354,009	Dec. 7	521	141 / 142	37	1101
Biersach, Paul C., Milwaukee, Wis. Caster for trunks	335,557	Feb. 9	658	173	34	565
Bigby, William S., New York, N. Y. Dental drill	351,153	Oct. 19	1505	394	37	288
Bigelow, Allen F., Ogdensburg, N. Y. Washing-machine	344,237	June 22	2096	535	35	1409
Bigelow, Edmond B., assignor to himself, S. L. Bignall, and C. J. Glenn, Chicago, Ill. Lamp	334,558	Jan. 19	1513	405	34	293
Bigelow, George W., New Haven, Conn. Direct-acting engine	335,884	Feb. 9	1134	299	34	650
Bigelow, John. (See Borton, Stockton, assignor.)						
Bigelow, John, Philadelphia, Pa. Trimming device for sewing-machines	341,790	May 11	1128	298	35	725
Bigelow, Timothy, Brooklyn, N. Y. Printing-type	351,355	Oct. 26	1778	468	37	344
Bigelow, William H., Worthington, Minn. Machine for building wire fences	337,119	Mar. 2	317	83	34	985
Bigger, James F., Rushville, Ind. School-desk	338,468	Mar. 23	2151	563	34	1336
Biggs, Ambrose B. (See Hipgrave, Frank, assignor.)						
Biggs, David G., Louisville, Ky. Velocipede	343,753	June 15	1443	360	35	1281
Biggs, Frederick J., London, England. Reversible latch	346,349	July 27	2260	564	36	421
Biggs, Frederick J., London, England. Mortise-lock	353,196	Nov. 23	2057	549	37	869
Biggs, Henry, assignor to W. J. Reilly, Montpelier, Vt. Carriage-standard	338,655	Mar. 23	2400	632	34	1379
Biggs, John. (See Linley and Biggs.)						
Biggs, John M., Louisville, Ky. Telegraph-key	351,485	Oct. 26	2006	521	37	384
Bigler, Gottlieb, assignor of one-half to M. M. McSherry, Buffalo, N. Y. Dust-collector	350,286	Oct. 5	252	73	37	52
Bigler, Reed & Co. (See Reed, Frank B., assignor.)						
Bignall, Solomon L., *et al.* (See Bigelow, Edmond B., assignor.)						
Bihl, Ignace, Newport, Ky., and C. Platt, Cincinnati, Ohio. Sewing-machine take-up	349,029	Sept. 14	676	174	36	1175
Bike, James C. (See Milliken, George, assignor.)						
Bilbrough, William H., Lansingburg, N. Y. Lady's undershirt	338,024	Mar. 16	1522	401	34	1217
Bilger, Edmund C., Curwensville, Pa. Trace-eye	352,031	Nov. 2	437	119	37	541
Billhimer, Cyrus F. (See Lauffer, Billhimer, and Williams.)						
Billings, Daniel W. (See Herrick and Billings.)						
Billings, Frank. (See Dalliba and Billings.)						
Billings, Frank, Cleveland, Ohio, and W. R. Hinsdale, Brooklyn, N. Y., assignors to Compressed Steel Company, Cleveland, Ohio. Compressing fluid metal	333,591	Jan. 5	128	35	34	26
Billings, George B., Lebanon, N. H. Combined fertilizer-distributer and planter	333,723	Jan. 5	315	86, 87	34	59

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Billings, Jasper. (See Meredith, John H., assignor.)						
Billings, Oscar L. (See Maguire and Billings.)						
Billings & Spencer Company. (See Pullman, Herbert S., assignor.)						
Billings, William, Dover, Ill. Fence-rail	339,732	Apr. 13	937	230	35	171
Billings, William, Dover, Ill. Apparatus for bending metal strips	352,909	Nov. 23	1637	440	37	790
Billingsley, James J., Minden, La. Car-wheel	349,977	Sept. 28	1983	512	36	1441
Billingsley, James J., Minden, La. Railway-frog	349,978	Sept. 28	1983	512	36	1441
Billmire, Martin M., Ashton, Ill. Road-cart	343,970	June 22	1727	443	35	1343
Bills, Robert M., and A. S. Hamilton, Oroville, Cal. Sheep-shears	354,378	Dec. 14	1065	285	37	1208
Billwiller, Johann S., St. Gall, Switzerland. Tanning hides	345,827	July 20	1478	------	36	278
Bilton, Henry C., assignor of one-half to J. F. McGee, Buffalo, N. Y. Machine for tonguing buckles	344,894	July 6	140	35	36	25
Bilz, John A., Pleasanton, Cal. Plow	351,154	Oct. 19	1507	394	37	288
Binns, Joseph E., Dayton, Ohio. Vehicle-chain	337,120	Mar. 2	319	83	34	983
Bing, Robert, May's Landing, N. J. Scalper	342,857	June 1	110	28	35	1026
Bingham, Albert D., assignor to New Haven Watch Company, New Haven, Conn. Watch	340,854	Apr. 27	2497	657 / 658	35	466
Bingham, Albert H., Benton, Me. Butter-molding machine	339,364	Apr. 6	361	88	35	67
Bingham, Albert I., Elyria, Ohio. Hay-rack	350,474	Oct. 12	530	148	37	105
Bingham, Daniel, Hawley, Pa. Carpet-fastener	336,381	Feb. 16	1863	488	34	785
Bingham, John E., Walla Walla, Wash. Ter. Manufacture for the shoeing of horses	346,350	July 27	2201	564 / 565	36	421
Bingham, John E., Walla Walla, Wash. Ter. Horseshoe	346,351	July 27	2203	565	36	421
Bingham, John E., Walla Walla, Wash. Ter. Horseshoe	349,080	Sept. 14	746	190	36	1187
Bingham, John E., Walla Walla, Wash. Ter. Horseshoe	349,081	Sept. 14	748	191	36	1187
Bingham, Leander K., New York, N. Y. Apparatus for casting composition rollers for printers' use	342,420	May 25	2026	535	35	905
Bingham, William H., St. Cloud, Minn. Lubricator	346,981	Aug. 10	684	182	36	600
Binns, Robert, South Windham, Conn. Bulling-wheel gage	340,086	Apr. 20	1415	358	35	264
Bioren, James C., Newark, N. J. Blacking stand or case	354,175	Dec. 14	777	208	37	1155
Bippus, Ferdinand G., assignor to J. McClure and L. Von Froben, St. Louis, Mo. Fifth-wheel	339,365	Apr. 6	362	88	35	67
Birch, James T. (See Stambaugh, David F., assignor.)						
Birch, Joseph W., assignor of one-half to S. T. Smith, New York, N. Y. Device for cutting off the flow of gas to gas-burners	352,391	Nov. 9	952	235	37	643
Birch, Phillip, Erie, Pa. Grooving and seaming machine	340,413	Apr. 20	1880	483	35	350
Birch, William, Manchester, county of Lancaster, England. Apparatus for dyeing, &c	344,238	June 22	2097	535 / 536	35	1409
Birch, William, Broughton, near Manchester, county of Lancaster, England. Apparatus for stretching woven fabrics	349,139	Sept. 14	831	211 / 212	36	1203
Birchall, George W., assignor to Union Manufacturing Company, Toledo, Ohio. Feed-mechanism for sewing-machines	336,786	Feb. 23	2422	637	34	893
Birchard, Charles H. (See Birchard, Henry T., assignor.)						
Birchard, Henry T., Montrose, assignor of one-half to C. H. Birchard, Philadelphia, Pa. Folding table	340,087	Apr. 20	1416	358	35	264
Birck, William H., and W. Fischer, Brooklyn, assignors of one-third to J. Harrington, New York, N. Y. Suspended scaffold	346,019	July 20	1759	450	36	526
Bird, Bernard, Buffalo, N. Y. Car-coupling	352,511	Nov. 16	1097	296	37	679
Bird, Charles B., assignor to E. O. Bird, Sioux City, Iowa. Suspender-buckle	340,088	Apr. 20	1418	359	35	264
Bird, Charles B., assignor to E. O. Bird, Sioux City, Iowa. Suspender-buckle	340,089	Apr. 20	1419	359	35	265
Bird, Charles E. (See Walker, Ancil W., assignor.)						
Bird, Ellen O. (See Bird, Charles B., assignor.)						
Bird, James R., assignor of one-half to T. C. Hoge, Brooklyn, N. Y. Horse-detacher	340,973	May 4	4	2	35	506
Bird, Joseph, administrator. (See Green, Henry.)						
Birgé, Isidore, assignor to Transit Apparatus Company, Philadelphia, Pa. Store-service apparatus	350,861	Oct. 12	1079	289	37	204
Birge, Walter F., Buffalo, N. Y. Disintegrating-machine	345,408	July 13	836	212	36	158
Birge, Walter F., Buffalo, N. Y. Manufacture of starch	345,409	July 13	847	212	36	158
Birkenhead, John, Mansfield, Mass. Boring-tool	335,206	Feb. 2	171	44	34	471
Birkholz, Richard, assignor to E. P. Allis, Milwaukee, Wis. Spiral conveyer	355,124	Dec. 28	2136	561 / 562	37	1425
Birkmann, Georg, New York, N. Y. Bedstead	337,920	Mar. 16	1332	361	34	1189
Birmingham, David W., Clifton, N. Y. Apparatus for the treatment of and extraction of precious metals from ores	342,421	May 25	2027	535	35	906
Birmingham Iron Foundry. (See Clark, Maurice C., assignor.)						
Birmingham, Mark, Clifton, N. Y. Separating metals from their ores	342,422	May 25	2029	------	35	906
Birnbaum, Barnard, Boston, Mass. Supplementary waistband for pants	344,341	June 29	2239	576	35	1442
Bisbee, Albert, Plainville, Mass., assignor to Lincoln, Bacon & Co. and Bisbee, Swift & Burrows. Machine for making hollow metallic balls	338,656	Mar. 23	2401	632	34	1379
Bisbee, Clarence L., Brooklyn, N. Y. Gas-stove	347,561	Aug. 17	1522	404 / 405	36	761
Bisbee, George W., Chicago, Ill., assignor to G. S. Hurlbert, East Orange, N. J. Folding bedstead	341,724	May 11	1048	278	35	711
Bisbee, Swift & Burrows, *et al.* (See Bisbee, Albert, assignor.)						
Bisel, Joseph J. (See Haslam, William, assignor.)						
Bisel, Joseph J., Philadelphia, Pa. Clothes-drier	342,317	May 25	1869	495	35	879
Bisel, Joseph J., Philadelphia, Pa. Clothes-drier	355,125	Dec. 28	2138	563	37	1425
Bishop, Abner W., Middlebury, Ohio. Animal-poke	352,175	Nov. 9	678	181	37	590
Bishop, Adolphus F., *et al.* (See Laughton, Joseph B., assignor.)						
Bishop, Alfred S., and F. Down, assignors to W. C. Spurr, London, England. Cask-stand	343,267	June 8	717	178	35	1145
Bishop & Babcock. (See Thomas, William, assignor.)						
Bishop, George W. (See Patterson, William S., assignor.)						
Bishop, John E., San Marcos, Tex. Fire-tongs	337,733	Mar. 9	1142	296	34	1137
Bishop, John M., Washington, D. C. Change-gate	350,409	Oct. 5	401	115	37	80
Bishop, Samuel A., Smethport, Pa. Screen for bird-cages	339,366	Apr. 6	364	88	35	68
Bishop, Walter S., New Haven, Conn. Machine for turning ferret-rings	341,876	May 18	1250	335	35	757
Bishop, William J., Baltimore, Md. Rotary swing	340,493	Apr. 20	1573	398	35	293
Bisler, Gustav A., and F. Schoettle, Philadelphia, Pa. Machine for covering boxes	344,155	June 22	1979	506 / 507	35	1388
Bispool Sewing Machine Company. (See Price, John B., assignor.)						
Bissell Carpet Sweeper Company. (See Bissell and Drew, assignors.)						
Bissell Carpet Sweeper Company. (See Drew, Walter J., assignor.)						
Bissell Carpet Sweeper Company. (See Johnston, William T., assignor.)						
Bissell, Frank S., Sterrett, Pa. Grate	351,155	Oct. 19	1508	395	37	289

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Bissell, Mary E., *et al.* (See Baldwin, Chester M., assignor.)						
Bissell, Melville R., and W. J. Drew, assignors to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet-sweeper	335,010	Jan. 26	2105	560, 561	34	410
Bissell, Melville R., and W. J. Drew, assignors to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet-sweeper	349,684	Sept. 28	1561	404, 405	36	1362
Bissell, Simeon, assignor of one-half to J. R. Alexander, Pittsburg, Pa. Furnace	335,558	Feb. 9	659	174	34	565
Bisset, James, Jr., Aberdeen, county of Aberdeen, Scotland. Recorder for cars, &c., to denote the number of passengers and the distance and time ridden	347,153	Aug. 10	938	250	36	646
Bissett, Edwin H. (See Evans and Bissett.)						
Bissett, James E. (See Halley, Wilkinson, and Bissett.)						
Bisson, Ernest, Paris, France. Mariner's compass	341,125	May 4	211	64	35	544
Bittenbender, Eli, Nanticoke, Pa. Drill-frame anchor	338,469	Mar. 23	2153	563	34	1337
Bittenbender, John K., Bloomsburg, Pa. Clamp	349,367	Apr. 6	364	89	35	68
Bitter, Charles F. (See Kasson, M. Ogden, assignor.)						
Bitter, William J., Toledo, Ohio. Rosette for bridles	339,848	Apr. 13	1088	270	35	200
Bitter, William J., Toledo, Ohio. Rosette for harness	339,849	Apr. 13	1089	271	35	200
Bitzer, Louis, Jr., Montague, Mass. Eyeglasses	344,612	June 29	2618	678	35	1513
Bivin, Henry, Curran, Ill. Hand corn-planter and fertilizer-distributer	341,217	May 4	346	96	35	568
Bixby, George H. (See Cherrier, Francis E., assignor.)						
Bixby, Samuel M. (See White, Louis H., assignor.)						
Bixby, William P. (See Moorshead and Bixby.)						
Black, Charles S., and P. C. Pfister, New York, N. Y., assignors to Draper Manufacturing Company, of New York. Recording-thermometer	334,965	Dec. 28	1509	504	37	1383
Black & Clawson Company. (See Clawson, Linus P., assignor.)						
Black, David, assignor of three-fourths to I. N. Humphrey and J. T. Greer, Toledo, Ohio. Velocipede	350,719	Oct. 12	876	235	37	167
Black, Edward G. (See St. John, John C., assignor.)						
Black, George H., assignor of one-half to D. W. Pierce, Buchanan, Mich. Hand-cultivator	349,561	Sept. 21	1404	363	36	1323
Black, George S., Indianapolis, Ind. Guide-roll for band-saws	353,530	Nov. 30	2539	677	37	965
Black, George S., assignor to E. C. Atkins & Co., Indianapolis, Ind. Saw-swaging machine	342,172	May 18	1646	440	35	830
Black, George S., assignor to E. C. Atkins & Company, Indianapolis, Ind. Brazing-machine	353,245	Nov. 23	2115	567	37	880
Black, George S., New Orleans, La., assignor to E. C. Atkins & Co., of Indiana. Device for jointing the teeth of saws	353,659	Dec. 7	8	3	37	1008
Black, Henry, assignor of sixty-five one-hundredths to J. R. Knox, J. H. Martin, E. B. Hussey, Jamison & Martz, and A. T. Miller, Greenville, Ohio. Harvesting-machine	347,285	Aug. 10	1116	299	36	678
Black, Henry, and A. T. Miller, assignors of fifty-two one-hundredths to J. H. Martin, E. B. Hussey, Jamison & Martz, and J. R. Knox, Greenville, Ohio. Harvester and binder	347,286	Aug. 10	1119	300, 301	36	679
Black, Horatio N., Philadelphia, Pa. Vehicle-spring	333,814	Jan. 5	433	117	34	81
Black, James W., Berwick, Nova Scotia, Canada. Carriage-fender	349,247	Sept. 14	976	249	36	1231
Black, John S., Summer Hill, Ill. Wheel-chock	354,010	Dec. 7	522	142	37	1101
Black, John W., Glasgow, county of Lanark, Scotland. Signal-tube apparatus	347,154	Aug. 10	941	251	36	646
Black, Joseph P., assignor to Hapgood Plow Company, Alton, Ill. Planting-plow. (Reissue)	10,745	July 13	1243	322	36	230
Black, Robert. (See Havey, Black, and Palmer.)						
Black, Robert, and J. Strachan, New York, N. Y. Fence	339,368	Apr. 6	367	89	35	68
Black, Robert H., Kendall Creek, Pa. Sucker-rod	334,929	Jan. 26	1996	532	34	391
Black, Robert H., Kendall, Pa. Uniting sucker-rods	348,823	Sept. 7	377	103	36	1118
Black, William T. (See Rowland and Black.)						
Blackall, Robert C., *et al.* (See Adams, Henry P., assignor.)						
Blackall, Robert C., Albany, N. Y. Safety-gate for railway-crossings	334,930	Jan. 26	1996	532	34	391
Blackburn, Frederick, Palmyra, assignor to Blackburn Straw Braid Sewing Machine Company, Beverly, N. J. Feeding mechanism for straw-braid-sewing machines	344,239	June 22	2098	536	35	1409
Blackburn, Jacob E., Fredericktown, Ohio. Whiffletree	344,569	June 29	2546	653	35	1498
Blackburn, Samuel P., Boston, Mass. Valve for steam-engines	347,914	Aug. 24	2045	543	36	866
Blackburn, Samuel P., Boston, Mass. Valve for steam-engines	347,915	Aug. 24	2046	543	36	866
Blackburn Straw Braid Sewing Machine Company. (See Blackburn, Frederick, assignor.)						
Blackhall, Edward W. (See Smith and Blackhall.)						
Blackhall, Edward W., Toronto, Ontario, Canada, assignor of one-half to J. H. Smith, Buffalo, N. Y. Cash indicator and recorder for cash-drawers	340,545	Apr. 27	2075	535, 536	35	393
Blackman, Ebenezer, Brooklyn, N. Y. Lamp-burner	346,889	Aug. 10	557	150	36	576
Blackman, Ebenezer, Brooklyn, N. Y. Lamp-burner	346,890	Aug. 10	558	150	36	576
Blackman, Ebenezer, Brooklyn, assignor to C. J. Petersen, Port Chester, N. Y. Suspension device for lamps, &c	340,969	Apr. 27	2653	699	35	495
Blackmer, Ammi, Minneapolis, Minn. Saw-sharpening machine	352,802	Nov. 16	1491	402, 403	37	752
Blackmer, Francis A., assignor to G. R. Wentworth, Springfield, Mass. Adjustable and folding mechanism for tables, chairs, &c	349,627	Sept. 21	1487	385	36	1341
Blackmer, Henry A., Clarksville, Ark. Double-spiral-bed-spring machinery	338,702	Mar. 30	2480	655	34	1399
Blackmer, Maltiah B., Plymouth, Mass. Punch	350,968	Oct. 19	1224	324	37	237
Blackmore, James, and T. M. Steen, Pittsburg, Pa. Casing for natural-gas conduits	347,084	Aug. 10	845	225	36	628
Blackwell, Kennet W., Montreal, Quebec, Canada. Material for use in molds for casting	348,105	Aug. 24	2316	621	36	917
Blackwell, Richard C., assignor of two-thirds to W. H. Lewis, Henderson, Ky. Running-gear for wagons. (Reissue)	10,784	Nov. 23	2166	579	37	890
Blagg, Thomas J., Waverly, Nebr. Weight-motor	349,872	Sept. 28	1839	475, 476	36	1414
Blain, Archibald M., Deerfield, Va. Pitman-connection	339,733	Apr. 13	937	230	35	171
Blaine Car and Manufacturing Company. (See Blaine, George E., assignor.)						
Blaine, George E., Dayton, Ohio. Spring dumping-car	353,531	Nov. 30	2540	677	37	966
Blaine, George E., assignor to Blaine Car and Manufacturing Company, Dayton, Ohio. Dumping-car	335,885	Feb. 9	1136	300, 301, 302	34	651
Blair, Frank L., Allegheny, Pa. Applying cloth to insoles	333,499	Jan. 5	5	2	34	4
Blair, Franklin M. (See Blodgett, John W., assignor.)						
Blair, George W., Wabash, Ind. Anti-rattler for thill-couplings	334,842	Jan. 26	1887	502	34	371
Blair, George W., Wabash, Ind. Thill-coupling	335,676	Feb. 9	823	219	34	595
Blair, George W., Pittsburg, Pa. Manufacture of glassware	337,656	Mar. 9	1049	279	34	1131
Blair, George W., Pittsburg, Pa. Manufacture of glassware. (Reissue)	10,712	Apr. 20	2060	530	35	383
Blair, George W., Pittsburg, Pa. Manufacture of ornamental glassware	342,319	May 25	1871	496	35	880
Blair, George W., Pittsburg, Pa. Manufacture of glassware. (Reissue)	10,753	Aug. 10	1161	311	36	687
Blair, George W., and W. Buttler, Pittsburg, Pa. Glass-mold	342,318	May 25	1870	495	35	879
Blair, Robert, New York, N. Y. Inside shutter	337,121	Mar. 2	320	83	34	985
Blake and Johnson. (See Lester, Harry B., assignor.)						
Blake, C. M., *et al.* (See Howe, Patrick, assignor.)						
Blake, Charles E., Sr., San Francisco, Cal. Artificial tooth	355,126	Dec. 28	2139	563	37	1426

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Blake, Charles H. (See Blake, Francis M., assignor.)						
Blake, Eben W., Waltham, assignor of one-half to G. Draper & Sons, Hopedale, Mass. Sizing-machine	346,636	Aug. 3	239	65	36	506
Blake, Edward A. (See Campbell, George, assignor.)						
Blake, Edward A., Chicago, Ill. Stereotype-shaving machine	347,222	Aug. 10	1032	275	36	663
Blake, Edward A., Chicago, Ill. Stereotype-shaving machine	347,223	Aug. 10	1033	275, 276	36	663
Blake, Edwin C., and E. C. Trimnell, Worcester, assignors, by mesne assignments, to said Blake and Trimnell and G. P. Hunt, Boston, Mass. Electric-circuit-wire insulator	342,320	May 25	1872	496	35	880
Blake, Edwin D., assignor of two-fifths to F. Scales, Chicago, Ill. Spring-whiffletree	339,522	Apr. 6	590	142	35	109
Blake, Francis H., assignor to himself and C. Espenschied, Pinal, Ariz. Ter. Machine for concentrating ores, &c	337,122	Mar. 2	321	84	34	985
Blake, Francis M., assignor of one-half to C. H. Blake, Worcester, Mass. Friction-clutch	348,612	Sept. 7	112	32	36	1067
Blake, Harry E. (See Sharpe and Blake.)						
Blake, John F., New York, N. Y. Fabric-turfing implement	342,569	May 25	2230	592	35	943
Blake, Joseph H., *et al.* (See Rogers, Newton, assignor.)						
Blake, Theodore A., New Haven, Conn. Pitman for stone-crushers	344,619	June 29	2619	679	35	1513
Blakely, George C., and J. B. Gilpatrick, Plano, Ill. Tension device for grain-binders	335,677	Feb. 9	824	219	34	595
Blakely, James H., Bradford, Pa. Blower	341,218	May 4	347	96	35	568
Blakeman, William N., Jr., New York, N. Y. Method of and apparatus for preserving green food	350,287	Oct. 5	253	73	37	53
Blakeney, Albert A., and J. S. Compton, assignors of one-third to A. D. Jones, Baltimore, Md. Loom-picker	340,546	Apr. 27	2077	536	35	393
Blakeney, Edward. (See Moffatt and Blakeney.)						
Blakeslee, Dan, Limestone, N. Y. Washing-machine	354,529	Dec. 21	1279	341	37	1253
Blakeslee, George W., Perry, Iowa. Self-binding harvester	350,969	Oct. 19	1223	325	37	237
Blakesley, Alpheus M., Rock Island, Ill. Stove or range damper	337,233	Mar. 2	468	122	34	1012
Blakesley, Alpheus M., Rock Island, Ill. Stove or range	338,701	Mar. 30	2478	655	34	1399
Blakesley, Gilbert H. (See Barnes and Blakesley.)						
Blakesley, Gilbert H., Bristol, Conn. Hair-dressing appliance	345,024	July 6	326	82	36	60
Blakesley, Gilbert H., Bristol, Conn. Hair-crimper	348,263	Aug. 31	2553	686	36	966
Blakesley, Gilbert H., Bristol, Conn. Belting	350,106	Oct. 5	15	4	37	6
Blanchard, George, New York, N. Y. Calendar-watch	340,855	Apr. 27	2499	658	35	467
Blanchard, John H., Boston, and F. A. Jones, Malden, Mass.; said Blanchard assignor to said Jones. Steam-boiler or other furnace	343,531	June 8	1108	279, 280	35	1215
Blanchard, Kirk S., Clarendon, N. Y. Adjustable weather-strip	343,429	June 8	971	242, 243	35	1190
Blanchard, Sidney R., *et al.* (See Kleese, Wilson, assignor.)						
Blanchard, William H., Gainesville, Ga. Machine for filing cotton-gin saws	338,025	Mar. 16	1552	402	34	1217
Bland, John, assignor to J. W. and R. I. Bland, Thomaston, Ga. Bridle	346,352	July 27	2204	565	36	421
Bland, John W., *et al.* (See Bland, John, assignor.)						
Bland, Robert I., *et al.* (See Bland, John, assignor.)						
Blaney, Elbridge G., Jr., Swampscott, assignor, by mesne assignments, to himself and S. N. Breed & Co., Lynn, Mass. Cutter-head	345,662	July 20	1246	323	36	237
Blaney, William H., assignor to F. D. Hall, Attleborough, Mass. Fastening for lacing-cords	338,470	Mar. 23	2154	563	34	1337
Blank, Henry F., Quincy, Ill. Hay-press	334,843	Jan. 26	1888	503	34	371
Blankenburg, Rudolph, Philadelphia, Pa. Tag	351,571	Oct. 26	2128	551	37	409
Blankenmeister, Albert L., Marissa, Ill. Watch-case spring	337,365	Mar. 9	648	171	34	1052
Blanton, W. H., *et al.* (See Talbaferro, Ellbeck H., assignor.)						
Blass, Nickolas. (See Crawford, Royal M., assignor.)						
Blass, Talmadge, Millerton, assignor to Frink & Angevine, Mount Riga, N. Y. Steam-condenser	355,250	Dec. 28	2323	612	37	1462
Blathwayt, Charles R., Chelmarsh, Bridgenorth, county of Salop, England. Latch for doors, windows, &c	335,175	Feb. 2	128	32	34	463
Bláthy, Otto T. (See Zipernowsky, Déri, and Bláthy.)						
Blattau, John A., and G. A. Boyden, Baltimore, Md. Telephone-switch	340,028	Apr. 13	1331	333	35	243
Blau, Moriz, New York, N. Y. Shirt	337,553	Mar. 9	928	237	34	1099
Blaum, John. (See Benjamin, William, assignor.)						
Blazer, George B., *et al.* (See Hoepfner, Henry J., assignor.)						
Blechschmidt, Gustav. (See Hoefer and Blechschmidt.)						
Bleichert, Adolf. Gohlis, near Leipsic, Saxony, Germany, and J. Schatte, Vienna, Austria-Hungary, assignors to A. Bleichert & Co., Gohlis, near Leipsic, Germany. Elevated wire-rope line	345,828	July 20	1479	381, 382, 383, 384	36	278
Bleichert & Co., Adolph. (See Bleichert and Schatte, assignors.)						
Blendermann, Henry, *et al.* (See Adams, William D., assignor.)						
Blendermann, Jacob, *et al.* (See Adams, William D., assignor.)						
Blenkhorn, Sidney, Canning, Nova Scotia, Canada. Overshoe-lift	339,258	Apr. 6	208	53	35	39
Blenman, William T. (See Young, Oliver B., assignor.)						
Blesch, August F., Columbus, Ohio. Water-closet	354,379	Dec. 14	1065	285	37	1209
Bless, James F., Newark, N. J. Sad-iron handle	353,660	Dec. 7	10	3	37	1068
Blessing, James H., Albany, N. Y. Steam-trap	341,548	May 11	806	215	35	662
Blessing, James H., Albany, N. Y. Pump-regulator	347,559	Aug 17	1518	403	36	761
Blessing, James H., Albany, N. Y. Steam-trap	348,948	Sept. 14	562	149	36	1156
Blessing, James H., Albany, N. Y. Water-purifying apparatus	352,943	Nov. 23	1682	451	37	797
Blessing, James H., Albany, N. Y. Apparatus for purifying water	352,944	Nov. 23	1684	452	37	797
Bletzer, Henry, Boston, Mass. Brewer's chip-cask	350,522	Oct. 12	592	164	37	115
Blickensderfer, George C., Erie, Pa. Conveyer apparatus	338,703	Mar. 30	2482	655, 656	34	1399
Blickensderfer, George C., Erie, Pa. Conveyer apparatus	338,704	Mar. 30	2484	656	34	1400
Blickensderfer, George C., Erie, Pa. Conveyer apparatus	338,706	Mar. 30	2486	657, 658, 659	34	1400
Blickensderfer, George C., and H. Smith, Erie, Pa. Track for conveyer apparatus	338,705	Mar. 30	2485	657	34	1400
Bliesner, William, East St. Louis, Ill. Vapor-burner	334,737	Jan. 26	1759	469	34	347
Bligh, Samuel L., Custards, Pa. Broom-holder	348,106	Aug. 24	2317	621	36	917
Blish, Roger D., *et al.* (See Hilton, Charles H., assignor.)						
Bliss Company, E. W. (See Leavitt, Frank M., assignor.)						
Bliss, George H., Pittsfield, Mass. Fastening device for boots or shoes	334,738	Jan. 26	1760	469	34	347
Blodgett, Frank M., New York, N. Y. Micro-audiphone	333,724	Jan. 5	317	87	34	60
Blodgett, Frank M., New York, N. Y. Micro-audiphone	345,025	July 6	327	82	36	60
Blodgett, John W., Chicago, Ill. Machine for punching and stitching eyelet-holes	345,663	July 20	1247	323, 324	36	237
Blodgett, John W., Highwood, assignor of one-half to F. M. Blair, Chicago, Ill. Friction-clutch	339,259	Apr. 6	208	53	35	39

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Blodgett, John W., Highwood, assignor of one-half to F. M. Blair, Chicago, Ill. Friction-clutch	340,974	May 4	5	2	35	506
Blodgett, John W., Highwood, assignor to F. M. Blair, Chicago, Ill. Button-hole attachment for sewing-machines	342,321	May 25	1873	496	35	880
Bloede, Victor G., Baltimore, Md. Improving the finish and durability of fabrics for window-shades, &c.	347,315	Aug. 17	1168	.....	36	697
Bloem, Gustav, Dusseldorf, Prussia, Germany. Shell for detonating caps	342,423	May 25	2031	536	35	906
Bloemker, Frank H., assignor of one-half to M. Wagner, St. Louis, Mo. Ruler attachment for slates	353,477	Nov. 30	2457	656	37	950
Bloeser, John, St. Louis, Mo. Apparatus for drawing corks from bottles	337,921	Mar. 16	1393	362	34	1189
Bloeser, Rudolph, Scranton, Pa. Bottle-stopper	334,334	Jan. 12	1200	324	34	231
Bloom, Nicklas H., Charles City, Iowa. Spring for vehicles	346 065	July 27	1832	473	36	351
Bloomberg, William, New York, N. Y. Suspender-end	354,678	Dec. 21	1510	400	37	1294
Bloomer, Charles G., *et al.* (See Wood, Charles H., assignor.)						
Bloomer, Edgar, Wilton, Conn. Combination flower-box	343,694	June 15	1351	337	35	1265
Bloomer, John P., Philadelphia, Pa. Fence-guard	338,917	Mar. 30	2796	737	34	1455
Bloomfield, Ellis S., Jr., Jersey City, N. J. Door-bell	337,657	Mar. 9	1050	270	34	1122
Bloomfield, Ellis S., Jr., Jersey City, N. J. Door-bell	337,658	Mar. 9	1051	270	34	1122
Blount, Eugene I., Cambridge, C. A. Kimpton, and W. H. Gilman, assignors to Gilman Cash Railway Company, Boston, Mass. Cash and parcel transmitting apparatus for store-service	337,808	Mar. 16	1246	323, 324	34	1163
Blount, Eugene I., Cambridge, and C. A. Kimpton, assignors to Gilman Cash Railway Company, Boston, Mass. Cash and parcel carrier for store-service	337,809	Mar. 16	1249	324	34	1163
Blount & Kimpton. (See Perry, William L., assignor.)						
Blount, John G., Boston, Mass. Check-valve	344,620	June 29	2620	679	35	1514
Blount, William. (See Zeck, John, assignor.)						
Blum, George, Newark, N. J. Roller-skate	334,739	Jan. 26	1762	469	34	347
Blum, George, Orlando, Fla. Artificial stone	338,026	Mar. 16	1554	.....	34	1218
Blum, Gertrude. (See Blum, John, assignor.)						
Blum, John, assignor to G Blum, Dansville, N. Y. Shoe	349,562	Sept. 21	1405	363	36	1324
Blum, Nathan. (See Landelle, Ernest, assignor.)						
Blum, Peter, Orrville, Mo. Vegetable-grater	334,931	Jan. 26	1997	533	34	392
Blume, William, Scranton, Pa. Wagon-spring	340,757	Apr. 27	2377	626	35	444
Blumenkrohn, Siegfried, New York, N. Y. Fastening device for garments	351,620	Oct. 26	2206	570	37	422
Blumenthal, Moritz, Grunau, near Berlin, Germany. Manufacture of pure non-organized ferments	338,471	Mar. 23	2155	.....	34	1337
Blumenthal, Moritz, Grunau, near Berlin, Prussia, Germany. Organic ferments, (non-organized)	344,433	June 29	2369	.....	35	1466
Blun, Ferdinand S. M. (See Leve, Gustave, assignor.)						
Blün & Henius Manufacturing Company. (See Wenger, Julius, assignor.)						
Blundell, William J., New York, N. Y. Derrick	345,478	July 13	947	238, 239	36	176
Blydenburgh, Charles M., Riverhead, N. Y. Vehicle-gear	344,712	June 29	2734	710	35	1534
Blythe, George, Chillicothe, Mo. Spirit-level	339,369	Apr. 6	368	89	35	68
Blythe, George, Chillicothe, Mo. Clamp	344,713	June 29	2735	710	35	1534
Board, James L. (See Clapp, James H., assignor.)						
Boardman, Anson P. (See Elmer and Boardman.)						
Boas, Feodor. (See Murphy, Alexander A., assignor.)						
Boaz, Charles, Utica, Ill. Steam clothes-washer	349,140	Sept. 14	832	212	36	1204
Boblett, Lycurgus L., Knightstown, Ind. Manufacture of artificial stone and marble	343,695	June 15	1352	.....	35	1265
Bock, Anton H., Meissen, Saxony, Germany. Journal-bearing for velocipedes	333,592	Jan. 5	130	35	34	26
Bock, Henry F., Lansing, Ill. Whiffletree-hook	345,103	July 6	422	108	36	77
Bock, Henry F., Lansing, Ill. Coffee-roaster	346,459	Aug. 3	11	4	36	462
Bock, Martin, Hazleton, Pa. Engraving-machine	334,507	Jan. 19	1440	387, 388	34	280
Bock, William A., assignor of one-half to G. G. MacLachlan, Chicago, Ill. Blank for rail-braces	342,173	May 18	1647	440	35	831
Boda, William J., Dayton, Ohio. Finishing of house interiors	346,187	July 27	1974	509, 510	36	378
Bode, Peter J., Duquoin, Ill. Pump	340,414	Apr. 20	1882	483	35	350
Bödecker, Carl F. W., New York, N. Y. Differential-motion transmitter	352,512	Nov. 16	1098	296, 297	37	680
Bodey, Howard. (See Dougherty, Tiberias D., assignor.)						
Bodge, John W., Rochester, N. Y. Ballot-box	346,710	Aug. 3	329	90	36	525
Bodine, R. E., *et al.* (See Weaver, Edward P., assignor.)						
Bodley, Abram M., assignor of one-half to A. W. Stossmeister, Newport, Ky. Broom-holder	350,523	Oct. 12	593	164	37	115
Body, Michel, Liege, Belgium. Obtaining gold, silver, copper, nickel, and cobalt from their ores by electrolytic action	333,815	Jan. 5	434	118	34	81
Boecher, Adam, New York, N. Y. Feeding mechanism for sewing-machines	345,948	July 20	1646	424	36	308
Boehm, Alexander, assignor to L. Levi and A. Mayer, New York, N. Y. Reversible ruching for ladies' neck-wear	349,297	Sept. 21	1032	264	36	1251
Boehm, David J. (See Cameron, James W., assignor.)						
Boehme, Emil, Breslau, Prussia, Germany. Hydraulic shears	345,358	July 13	776	194, 195	36	145
Boehme, Emil, Breslau, Prussia, Germany. Hydraulic shears	345,359	July 13	777	195	36	146
Boehme, Emil, Breslau, Prussia, Germany. Differential accumulator	345,360	July 13	778	196	36	146
Boekel, Julius, Philadelphia, Pa. Laryngoscope	343,696	June 15	1354	338	35	1265
Boeker, Anton, St. Louis, Mo. Wicker case for bottles	351,486	Oct. 26	2007	521	37	384
Boës, Fritz, and H. Winter, Helena, Mont. Ter. Bread and vegetable cutter	338,819	Mar. 30	2651	698	34	1429
Boesch, Emile, San Francisco, Cal. Head-light lamp	349,082	Sept. 14	750	191	36	1188
Boesenberg, Albert, Baltimore, Md. Overalls	344,156	June 22	1984	507	35	1389
Bogan, James F., East Boston, Mass. Faucet	339,133	Apr. 6	20	7	35	6
Bogan, James F., East Boston, assignor to G. E. Marvin, Boston, and W. E. Carleton, Charlestown, Mass. Faucet	344,157	June 22	1984	508	35	1389
Bogard, John J., Tehama, Cal. Car-coupling	353,118	Nov. 23	1937	519	37	845
Bogardus, Abraham. (See Coster, William E., assignor.)						
Bogardus, Washington A. H., 2d, Newark, N. J. Refrigerator-tank	346,529	Aug. 3	102	27	36	479
Bogart, Isaac, assignor of one-half to J. C. Groves, Dana, Ind. Churn	347,916	Aug. 24	2047	543	36	867
Bogert, Matthew J., Demarest, N. J. Bundle-carrier	353,532	Nov. 30	2541	677	37	966
Boggs, Alden, Covington, Ohio. Wire-fence machine	347,562	Aug. 17	1523	405	36	761
Boggs, John W., and D. M. McLauchlan, Albina, Oreg. Reclining-chair	348,716	Sept. 7	250	67	36	1094
Boggs, Joseph O., assignor of one-half to S. K. and J. M. Jacobs, Harrisburg, Pa. Leveling attachment for measuring-faucets	355,127	Dec. 28	2140	563	37	1426

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Boggs, Samuel L., *et al.* (See Flaherty, George A., assignor.)						
Bogle, John A., Milton, Pa. Clothes-drier	334,559	Jan. 19	1515	405	34	293
Bogner, John H., assignor of two-thirds to L. P. and J. Wolohan, Sr., Rochester, N. Y. Toy vehicle	340,655	Apr. 27	2233	585 / 586	35	419
Bohannan, Wilson, Brooklyn, N. Y. Door-lock	337,044	Mar. 2	218	57, 58	34	965
Böhling, John, Washington, D. C. Electric time-ball	348,949	Sept. 14	563	149	36	1156
Bohlinger, Alfred P., St. Louis, Mo. Curtain-stretcher	341,634	May 11	925	245	35	686
Böhm, Sören C. K., South Natick, Mass. Shoe	340,547	Apr. 27	2078	536	35	393
Bohn, René, Ludwigshafen-on-the-Rhine, Bavaria, assignor to Badische Anilin und Soda Fabrik, Mannheim, Germany. Manufacture of yellow coloring-matter or dye-stuff from gallic acid	348,613	Sept. 7	113	.....	36	1068
Boies, Albert H., Hudson, Mich. Car-coupling	351,090	Oct. 19	1421	373	37	272
Boileau, Etienne, St. Louis, Mo. Boiler-furnace	335,207	Feb. 2	171	45	34	471
Boissier, Herman R., New York, N. Y. Armature for dynamo-electric machines	335,105	Feb. 2	5	2	34	442
Boissier, Hermann R., New York, N. Y. Electric lamp	354,530	Dec. 21	1281	342	37	1253
Boland, James, Norwich, Conn. Revolver	353,914	Dec. 7	382	101	37	1076
Boland, James, assignor to Hopkins & Allen Manufacturing Company, Norwich, Conn. Revolving fire-arm	333,725	Jan. 5	318	87	34	60
Boland, Patrick, San Francisco, Cal. Cash and parcel carrier	341,725	May 11	1649	278	35	714
Bold, Fred, assignor of three-fourths to T. V. Thompson and G. Bullock, St. Louis, Mo. Lubricator	351,421	Oct. 26	1908	496	37	366
Bole, William A., Pittsburg, Pa. Steam-engine governor	343,450	June 8	972	243	35	1191
Bolen, John A., assignor to L. L. Davis, Springfield, Mass. Ratchet bit-brace	342,737	May 25	2466	653	35	986
Bollinger, Benjamin B., White Pigeon, Mich. Cane and corn harvester	347,316	Aug. 17	1169	313 / 314	36	697
Bollinger, Phares S. (See Kuhns and Bollinger.)						
Bolte, Theodore H., Columbus, Wis. Smoke-stack	345 664	July 20	1250	324	36	238
Bolton, Edward, New York, N. Y. Fence-wire stretcher	351,422	Oct. 26	1909	497	37	366
Bolton, Frank T. (See Temple and Bolton.)						
Bolton, George W., and L. Jargensen, Milwaukee, Wis. Ruler for slates	334,932	Jan. 26	1998	533	34	392
Bolton, George W., and C. H. Tillmeyer; said Tillmeyer assignor to S. E. B. Bolton, Milwaukee, Wis. Abacus	352,218	Nov. 9	731	195	37	600
Bolton, Henry E., and T. Drake, Dow City, Iowa. Clothes-drier	348,882	Sept. 7	467	123	36	1133
Bolton, Sarah E. B. (See Tillmeyer, Charles H., assignor.)						
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Lead or crayon holder	338,820	Mar. 30	2652	699	34	1436
Bomboy, Charles R., Hazleton, Pa. Grain-cleaner	351,156	Oct. 19	1509	395	37	299
Bommer, Lorenz, New York, N. Y. Spring-hinge	348,312	Aug. 31	2619	705	36	980
Bon, John T., Syracuse, N. Y. Folding table	333,500	Jan. 5	6	2, 3	34	4
Bond, Addie, New York, N. Y. Cuff-retainer	352,294	Nov. 9	829	222	37	618
Bond, George W., Fort Wayne, Ind. Rotary engine	340,975	May 4	7	2	35	506
Bond, H. G. (See Mathey, Henry, assignor.)						
Bond, John M. (See Delaney and Bond.)						
Bond, John P., Warsaw, Ind. Grain separator and cleaner	337,234	Mar. 2	470	123	34	1012
Bond, Levi L., *et al.* (See Freeman, Leander W., assignor.)						
Bond, Nathan O., Fairfax Court-House, Va., assignor of one-half to J. J. Gould, Washington, D. C. Cook-stove	338,472	Mar. 23	2157	563	34	1337
Bond, Newton, Buffalo, N. Y. Tube-cutter	342,570	May 25	2231	592	35	943
Bond, Peter. (See Brownridge and Bond.)						
Bond, William G., Hoboken, N. J. Fastener for shipping-cases	344,473	June 29	2418	622	35	1474
Bone, Alfred P., *et al.* (See Saunders, Isaac R., assignor.)						
Bone, Frank A. (See Hayner and Owens, assignors.)						
Bone, Frank A., Lebanon, Ohio. Adding-machine	351,487	Oct. 26	2007	521 / 522	37	385
Bonehill, Christopher G., Birmingham, county of Warwick, England. Breech-loading fire-arm	337,810	Mar. 16	1251	324	34	1164
Bonesteel, Albert E., Troy, N. Y., assignor to P. & F. Corbin, New Britain, Conn. Packing-box	347,917	Aug. 24	2049	544	36	867
Bonesteel, John H., *et al.* (See Higley, Asa L., assignor.)						
Bonine, Robert A., Altoona, Pa. Camera-stand	345,949	July 20	1647	424 / 425	36	309
Bonino, Antonio, Torea, Italy. Barometrical evaporometer	351,091	Oct. 19	1422	373	37	272
Bonneau, Nelson, assignor of two-thirds to C. Lacaillade, and C. Perron, Lawrence, Mass. Picker staff-check for looms	345,361	July 13	779	196	36	146
Bonnefoy, Eugene, Roanne, France. Surgical chair	347,024	Aug. 10	747	199 / 200	36	610
Bonnell, Bertine P. (See Hayes and Bonnell.)						
Bonnell, James A., Brooklyn, N. Y. Apparatus for operating signals	341,397	May 4	598	161	35	613
Bonnell, James A., Brooklyn, N. Y. Railway-switch operating and locking mechanism	341,398	May 4	601	164 / 165	35	613
Bonnell, James A., Brooklyn, N. Y. Railway torpedo-signal	341,399	May 4	603	165	35	614
Bonnell, James A., Brooklyn, N. Y. Derailing-switch	341,400	May 4	604	165	35	614
Bonner, Joseph C. (See Ames, John, Jr., assignor.)						
Bonner, Joseph C., assignor of one-half to J. Ames, Jr., Toledo, Ohio. Brush	350,185	Oct. 5	124	35	37	26
Bonnichsen, Christian, and M. R. Chrystal, Newburg, N. Y. Pipe-wrench	336,468	Feb. 16	1984	520	34	806
Bonsfield, Charlie J., South Bay City, Mich. Wash-board protector	353,283	Nov. 30	2172	582	37	898
Bonsall, Emmor, Davenport, Iowa. Learner's telegraphic instrument	336,284	Feb. 16	1736	454	34	760
Bonta, James W., Philadelphia, Pa. Telephone-transmitter	352,176	Nov. 9	679	181	37	590
Bonta, James W., Philadelphia, Pa. Telephone-transmitter	352,177	Nov. 9	680	181	37	590
Bonta, James W., Philadelphia, Pa. Telephone-transmitter	352,178	Nov. 9	681	181 / 182	37	590
Bonta, James W., Philadelphia, Pa. Telephone-transmitter	352,179	Nov. 9	682	182	37	591
Bonta, James W., assignor to J. D. Eby, trustee, Philadelphia, Pa. Telephone	333,816	Jan. 5	435	118	34	81
Bonzagni, Vincenzo, Boston, Mass. Attachment for cleansing pipes	353,413	Nov. 30	2363	629 / 630	37	933
Bookwalter Bros. & Company. (See Bookwalter, Daniel, assignor.)						
Bookwalter, Daniel, assignor to Bookwalter Bros. & Company, Miamisburg, Ohio. Vehicle-hub	334,508	Jan. 19	1445	388	34	281
Boon, Arthur T., Clerkenwell, and A. Ries, Hatton Garden, county of Middlesex, England. Two-wheeled cab	342,674	May 25	2381	630	35	971
Boone, Alonzo T., assignor to D. A. Boone and A. C. Calkins, Chicago, Ill. Mixed paint	342,174	May 18	1648	.....	35	831
Boone, Deborah A., *et al.* (See Boone, Alonzo T., assignor.)						
Booraem, John V. V. (See Baur and Booraem.)						
Booraem, John V. V., Brooklyn, N. Y. Apparatus for washing and separating sawdust and other material by centrifugal action	353,775	Dec. 7	167	46	37	1038

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Boot and Shoe Sole Laying Company. (See Coupal and Wood, assignors.)						
Boot and Shoe Sole Laying Machine Company. (See Coupal, Peter A., assignor.)						
Booth, Ebenezer H., Kirkwood, N. Y. Vehicle-spring	346,711	Aug. 3	331	90	36	525
Booth, Emilie G., Berkeley, Cal. Lawn-tennis-net pole	353,050	Nov. 23	1848	499	37	826
Booth, Henry, *et al.* (See Castner, Hamilton Y., assignor.)						
Booth, John. (See Mahan, Frank M., assignor.)						
Booth, John, Indianapolis, Ind. Slide-valve	339,734	Apr. 13	938	230	35	171
Booth, John, assignor of three-fourths to O. A. Newell, Lincoln, G. A. Metcalf and S. A. Wardwell, Jr., Woonsocket, R. I. Top roll for spinning-machines, &c	344,434	June 29	2370	610	35	1466
Booth, John H., *et al.* (See Castner, Hamilton Y., assignor.)						
Booth, Joseph, assignor to Aikman Automatic Car Coupler Company, Detroit, Mich. Car-coupling	354,301	Dec. 14	966	256	37	1189
Booth, Quentin W., Rochester, N. Y. Machine for beading shoe-uppers	344,435	June 29	2371	610	35	1466
Booth, T. Charlton, New York, N. Y. Oil-can	342,571	May 25	2232	593	35	943
Booth, Thomas C., and H. Embury, New York, N. Y. Screen-holder for lamps	351,157	Oct. 19	1511	395	37	289
Booth, William, Leominster, Mass. Hand mirror and brush	351,958	Nov. 2	329	91	37	519
Boothroyd, Joseph. (See Walsh and Boothroyd.)						
Booyer, William L., San Francisco, Cal. Miter-box	335,738	Feb. 9	922	242	34	613
Borchardt, Albert, Hoboken, N. J. Making shirts	351,827	Nov. 2	133	37	37	483
Borchers, Herman, and E. M. Chamness, Indianapolis, Ind. Meat-tenderer	354,679	Dec. 21	1511	400	37	1294
Borchert, Oscar, Jersey City, N. J. Garment-stand	344,516	June 29	2488	640	35	1486
Borden, William A., Boston, Mass. Newspaper-file	337,366	Mar. 9	649	172	34	1053
Bordwell, H. W. (See Smith, Hiram and J. H., assignors.)						
Borel, François, Cortaillod, and E. Paccand, Lausanne, Switzerland. Meter for electric currents	337,123	Mar. 2	322	84	34	986
Borgfeldt, Nicholas H., assignor to A. C. Schutz, A. Lewyn, M. Martin, and Levy Bros., New York, N. Y. Cigar-bunching machine	349,336	Sept. 21	1074	276	36	1260
Borgfeldt, Nicholas H., and A. C. Schutz, New York, N. Y. Cigar-bunching machine	345,614	July 13	1157	297	36	214
Borgfeldt, Nicholas H., and A. C. Schutz, assignors to said Schutz, A. Lewyn, M. Martin, and Levy Bros., New York, N. Y. Cigar-bunching machine	349,335	Sept. 21	1072	275, 276	36	1259
Boring, Frank M., Dayton, Ohio. Harness-coupling	352,210	Nov. 9	732	196	37	600
Borland, Severin, Manchester, county of Lancaster, England. Injector	354,176	Dec. 14	778	208	37	1155
Borland, Severin, Manchester, county of Lancaster, England. Injector	354,177	Dec. 14	780	208	37	1156
Born, Fredrick W. and H., Cleveland, Ohio. Range-closet door	354,092	Dec. 14	641	174	37	1132
Born, Henry. (See Born, Fredrick W. and H.)						
Bornarth, Charles, Shakopee, Minn. Gate-hinge	336,469	Feb. 16	1985	520	34	807
Bornstein, Henry, Boston, Mass. Wrench	338,707	Mar. 30	2490	659	34	1401
Borro, Joseph, New York, N. Y. Apparatus for producing flash-signals	348,313	Aug. 31	2620	706	36	980
Bort, Frank J., Cleveland, Ohio. Water-alarm	339,260	Apr. 6	210	53	35	39
Borton, Stockton, assignor to J. Bigelow, Philadelphia, Pa. Trimming device for sewing-machines	341,726	May 11	1050	278	35	711
Borton, Stockton, Philadelphia, Pa., and C. H. Willcox, assignors to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Manufacturing hosiery. (Reissue)	10,730	June 1	554	140	35	1108
Bortree, Francis E., Ledgedale, Pa. Carriage-spring	349,298	Sept. 21	1032	264	36	1251
Bortree, Hannah M., Madison, Wis. Combined corset and garment-supporter	346,982	Aug. 10	685	182	36	600
Bortree, Lewis S., Toledo, Ohio. Sewing-machine	344,240	June 22	2099	536, 537	35	1410
Boscher, Toussaint P., New Orleans, La. Compound for coating wood, cordage, &c	352,945	Nov. 23	1686	.....	37	798
Boschka, Albert, San Francisco, Cal. Excavating-machine	348,376	Aug. 31	2704	726	36	997
Boshert, Rufus E. (See Murray, James D., assignor.)						
Bossard, August, New York, N. Y. Armature for dynamo-electric machines	348,883	Sept. 7	468	123, 124	36	1133
Bossard, August, New York, N. Y. Electric motor	349,563	Sept. 21	1406	364	36	1324
Bossler, Joseph B., Middletown, Pa. Rotary grate	346,712	Aug. 3	332	90	36	525
Boston Clock Company. (See Craig and Eastman, assignors.)						
Boston Clock Company. (See Eastman, Joseph H., assignor.)						
Boston Trans-Phototype Company. (See Read, William, Jr., assignor.)						
Boston Wheel Company. (See White, Frederick, assignor.)						
Boston Woven Hose Company. (See Cowen, Robert, assignor.)						
Boston Woven Hose Company. (See Hopkins, James R., assignor.)						
Bostwick & Burgess. (See Hinkley, Jonas, assignor.) (Reissue.)						
Bostwick, George C., Three Oaks, Mich., and A. Morley, Chicago, Ill. Whip	344,028	June 22	1798	463	35	1355
Bostwick, William D. (See Kunkle, Erastus B., assignor.)						
Boswell, John I., near Chase City, Va. Combined seed-planter and fertilizer-distributer	336,285	Feb. 16	1737	454, 455	34	760
Boswell, William F., Atchison, Kans. Upright steam-heater	334,335	Jan. 12	1202	324	34	231
Bosworth, Charles B., Everett, assignor to New England Manufacturing Company, Boston, Mass. Governor	333,817	Jan. 5	437	118	34	82
Bosworth, Charles B., Everett, assignor to New England Manufacturing Company, Boston, Mass. Automatic pressure-regulator	333,818	Jan. 5	439	119	34	82
Bosworth, Emory, and J. Schmidt, N. Cleveland, Ohio. Branding implement	336,286	Feb. 16	1739	455	34	760
Bosworth, George P., assignor of one-half to J. B. Gray, Pawtucket, R. I. Stop-motion for spooling-machines	350,033	Sept. 28	2052	529, 530	36	1454
Bosworth, Joab O., Denver, Colo. Rock-crusher	342,999	June 1	305	78, 79	35	1062
Bosworth & Schmidt. (See Oppmann and Smith, assignors.)						
Bothe, Herman H., St. Louis, Mo. Waggon-staple pocket	351,246	Oct. 19	1628	427	37	311
Botsford, Nathan, Lockport, N. Y. Machine for gathering stones	349,685	Sept. 28	1563	405	36	1362
Bott, Joseph E., Manchester, county of Lancaster, England, assignor of one-half to J. Howard, Nicetown, Pa. Stop and check valve	335,886	Feb. 9	1139	302	34	651
Bottenfield, Carey J., Prospect, Ohio. Farm-gate	348,148	Aug. 24	2369	636	36	927
Botto, Louis. (See Ketteringham, John P., assignor.)						
Bottum, George L., assignor to M. A. Bottum, Cohoes, N. Y. Steam-boiler	352,513	Nov. 16	1100	297	37	680
Bottum, Margaret A. (See Bottum, George L., assignor.)						
Bouchard, Eli. (See Phillips, Bouchard, and Charbonneau.)						
Bouché, Jean. (See Lagosse and Bouché.)						
Bouchy, Henry, and J. H. Bamberger, Newark, N. J. Belt-punch	334,215	Jan. 12	1026	273	34	199
Boughton, Claudius V., Buffalo, N. Y. Seal for freight-car and other locks	340,758	Apr. 27	2377	626	35	444
Boughton, Darius F., Chicago, Ill., assignor to H. W. Hartman, Beaver Falls, Pa. Wire bale-tie	336,084	Feb. 16	1424	376	34	708
Boughton, Edwin C., New York, N. Y. Bottle-stopper	343,292	June 8	761	189	35	1153
Boulé, Louis, Bourges, France. Treating hops to obtain extracts therefrom	338,027	Mar. 16	1554	.....	34	1218
Boulicault, Jean B., and J. Lehnbeuter, St. Louis, Mo. Furnace	335,176	Feb. 2	129	32	34	464
Boulton, Matthew P. W., Tew Park, county of Oxford, England. Employing steam for producing motive power	345,026	July 6	328	82, 83	36	60

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Bourbon Copper and Brass Works. (See Peden, John C., assignor.)						
Bourcart, Jean J., Zurich, Switzerland. Ring-spinning frame	333,819	Jan. 5	441	119, 120	34	82
Bourcart, Jean J., Zurich, Switzerland. Spinning-machine	335,208	Feb. 2	172	45, 46	34	472
Bourke, Martin, Youngstown, Ohio. Sash-fastener	344,436	June 29	2372	610	35	1467
Bourke, Martin, Youngstown, Ohio. Sash-holder	345,665	July 20	1251	324	36	238
Bourne, Charles E. (See Bourne William and C. E.)						
Bourne, Daniel M., Cool, Kans. Cultivator	354,381	Dec. 14	1067	286	37	1209
Bourne, Edward, Allegheny, Pa. Gas-burner	347,155	Aug. 10	943	252	36	647
Bourne, Edward, Allegheny, Pa. Grate for burning natural gas	354,380	Dec. 14	1067	285	37	1209
Bourne, Henry H., Manhattan, Kans. Blasting earth	351,959	Nov. 2	330	92	37	519
Bourne, Jonathan, Jr., Portland, Oreg. Car-axle	347,563	Aug. 17	1524	405	36	762
Bourne, Stephen N. (See Robinson, Benjamin, assignor.)						
Bourne, William, deceased, (C. E. Bourne, administrator,) and C. E. Bourne, Boston, Mass. Upright-piano-action frame	338,918	Mar. 30	2796	737	34	1456
Bousfield, Edward T. (See Howard and Bousfield.)						
Bousfield, Edward T. (See Howard, Bousfield, and Gibbs.)						
Bouteiller, Frederick P., Essex County, Canada. Windmill	343,000	June 1	307	79	35	1062
Bouton, Andrus P., assignor of one-half to W. B. Farwell, San Francisco, Cal. Disinfectant	341,091	May 4	158	.....	35	534
Bouton, Arthur A., Brooklyn, N. Y. Automatic tension for sewing-machines	344,765	June 29	2807	727	35	1546
Bouton, Nathaniel S. (See Starkweather, Gleason F., assignor.)						
Bovard, Lafayette. (See Scott and Bovard.)						
Bové, Hubert, New York, N. Y. Candle-burner	348,377	Aug. 31	2706	727	36	997
Bovee, David W., Richland Centre, Wis. Hay-loader	352,604	Nov. 16	1221	331	37	701
Bovee, David W., Richland Centre, Wis. Tedder	352,605	Nov. 16	1222	331	37	702
Bovee, George E., and S. Belmont, New Orleans, La. Cigar-bunching machine	339,850	Apr. 13	1089	271	35	200
Bovey, George C., Mount Morris, Ill. Two-wheeled vehicle	350,034	Sept. 28	2053	530	36	1454
Bovey, George C., Mount Morris, Ill. Two-wheeled vehicle	353,620	Nov. 30	2672	716	37	990
Bovey, George C., Columbus, Ohio. Carriage-jack	354,382	Dec. 14	1068	286	37	1209
Bovey, George C., Columbus, Ohio. Gate-hinge	354,383	Dec. 14	1069	286	37	1209
Bovey, George C., Columbus, Ohio. Milk-bucket	354,384	Dec. 14	1069	286	37	1209
Bovyer, William L., San Francisco, Cal. Propeller for vessels	342,572	May 25	2233	593	35	944
Bowden, Charles P. (See Allison and Bowden.)						
Bowden, Charles W., assignor of one-half to R. A. Beuchler, Washington, D. C. Screw-cutting machine	343,102	June 1	466	119	35	1091
Bowden, Charles W., and R. A. Beuchler, Washington, D. C. Mechanism for screw-threading pipe	344,714	June 29	2736	711	35	1535
Bowdish, Nelson S., Skaneateles, N. Y. Photographer's plate-holder	355,056	Dec. 28	2039	536	37	1406
Bowditch, James H. (See Pierce, Bowditch, and Rice.)						
Bowditch, John F., Revere, Mass. Brush	334,336	Jan. 12	1203	324	34	232
Bowdle, William R., Piqua, Ohio. Machine for making wire and picket fencing	346,260	July 27	2082	535, 536	36	399
Bowen, Charles H., Washington, D. C. Traction-cable system	343,293	June 8	761	189, 190, 191	35	1153
Bowen, Daniel C., assignor of one-half to B. McNeal, Byron Centre, Mich. Wire-stretcher	347,462	Aug. 17	1384	368	36	736
Bowen, Edwin N., Fitzwilliam, N. H. Governor for steam-engines	350,970	Oct. 19	1229	326	37	238
Bowen, Ephraim N., assignor of one-half to W. S. Bull, Buffalo, N. Y. Exercising-machine	334,635	Jan. 19	1616	430, 431	34	313
Bowen, Francis C., New York, N. Y. Hat-ventilator	337,124	Mar. 2	324	84, 85	34	986
Bowen, Francis C., Brooklyn, N. Y. Eyeglass-suspender	339,370	Apr. 6	369	89	35	69
Bowen, Henry S. (See Utley, Hiram S., assignor.)						
Bowen, James H., Philadelphia, Pa. Toy money-box	337,125	Mar. 2	325	85	34	986
Bowen, John J., San Francisco, Cal. Band sawing-machine	336,693	Feb. 23	2305	603	34	870
Bowen, Philip A., assignor of one-half to Loeffelholz & Co., Milwaukee, Wis. Fluid-cock	347,156	Aug. 10	944	252	36	647
Bowen, Thomas W., Philadelphia, Pa. Swing	345,950	July 20	1648	425	36	309
Bower, Buckland P., Cleveland, Ohio. Pipe-connection	337,126	Mar. 2	326	85	34	986
Bower, Buckland P., Cleveland, Ohio. Sewer-trap	339,851	Apr. 13	1092	271	35	200
Bower, Charles C., Bristol, Ind., and A. B. Evans, Thompsontown, Pa. Carriage and wagon-jack	354,385	Dec. 14	1070	287	37	1210
Bower, Elijah C., Milwaukee, Wis. Egg-box	349,919	Sept. 28	1895	491	36	1425
Bower, Henry. (See Michaelis, Otho E., assignor.)						
Bower, Henry, Philadelphia, Pa. Utilization of natural gas	338,028	Mar. 16	1556	402, 403	34	1218
Bower, William. (See Parker, George A., assignor.)						
Bowerman, William J., Detroit, Mich. Combined steam and hot-water heater	343,431	June 8	974	243	35	1191
Bowers, Albert M., Newark, N. J. Leather-finishing machine	339,134	Apr. 6	22	7	35	6
Bowers, Albert M., Newark, N. J. Steam-heated roller	339,735	Apr. 13	939	230	35	171
Bowers, Albert M., Newark, N. J. Leather-finishing machine	354,178	Dec. 14	782	208	37	1156
Bowers, Alphonzo B., San Francisco, Cal. Hydraulic dredging apparatus	355,251	Dec. 28	2324	612	37	1463
Bowers, Cile W., Fort Atkinson, assignor of one-half to E. P. May, Jefferson County, Wis. Sediment-receiver for steam-boilers	335,559	Feb. 9	661	174	34	566
Bowers, George W. (See Bowers, John R., assignor.)						
Bowers, John R., Mound City, Mo. Device for propelling boats	336,787	Feb. 23	2423	637	34	893
Bowers, John H., Mound City, Mo. Pipe and nut wrench	347,157	Aug. 10	945	252	36	647
Bowers, John R., assignor of one-half to G. W. Bowers, Pittsburg, Pa. Device for holding and locking chimneys on burners	334,161	Jan. 12	939	254	34	181
Bowers, John W., Franklin, assignor to Douglas Axe Manufacturing Company, Boston, Mass. Manufacture of axes and similar tools	352,803	Nov. 16	1493	403	37	752
Bowers, Sarah E. (See Bowers, William, assignor.)						
Bowers, Tom B., Chester, Pa. Apparatus for separating vegetable from animal fiber	339,964	Apr. 13	1237	308, 309	35	227
Bowers, William, assignor to S. E. Bowers, New York, N. Y. Gas-compressor	350,862	Oct. 12	1081	289	37	204
Bowersox, Joseph W., Woodberry, Md. Machine for twisting twines and cords	352,804	Nov. 16	1494	403	37	752
Bowker, Alfonso V. (See La Fave and Bowker.)						
Bowker, Daniel F. (See Bowker, Leo E. and D. F.)						
Bowker, Leo E., Keene, N. H. Coating the inside of vessels for holding oils	343,622	June 15	1249	.....	35	1248
Bowker, Leo E. and D. F., Keene, N. H. Composition for coating the inside of vessels for holding oil, &c	336,085	Feb. 16	1426	.....	34	708
Bowker, William, Medford, assignor to Bowker & Williams Hoop Machine Company, Boston, Mass. Hoop-sawing machine	348,149	Aug. 24	2370	636	36	927
Bowker, William, E. M. Cole, and A. L. Smith, Geneva, N. Y. Eyeglasses	346,713	Aug. 3	333	91	36	526

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bowker & Williams Hoop Machine Company. (See Bowker, William, assignor.)						
Bowler, Frank W. (See Copper, Luther S., assignor.)						
Bowler, Noadiah P., Cleveland, Ohio. Car-wheel	350,107	Oct. 5	16	5	37	6
Bowley, James D., Brandon, Manitoba, Canada. Device for carrying off smoke and steam from cooking utensils	347,564	Aug. 17	1525	405 / 406	36	762
Bowman, Charles C., Pittston, Pa. Grate for stoves	351,896	Nov. 2	236	66	37	501
Bowman, Cornelius C. (See Hardison and Bowman.)						
Bowman, Edward, Santa Cruz, Cal. Vehicle-spring	352,675	Nov. 16	1324	356	37	720
Bowman, George D., *et al.* (See Murray, James H., assignor.)						
Bowman, John D., Altoona, Pa. Machine for bending and welding car-coupling links	342,858	June 1	112	28, 29	35	1026
Bowman, John D., Altoona, Pa. Wrench	348,185	Aug. 31	2443	656	36	946
Bowman, John E., assignor of one-half to A. M. V. B. Deaner, Boonsborough, Md. Ironing-table	347,287	Aug. 10	1123	301	36	679
Bowman, Lewis N. (See Bowman, William M. and L. N.)						
Bowman, William M. and L. N., Lincoln, Mo. Broom-corn tablers	354,622	Dec. 21	1430	379	37	1280
Bowman, Winthrop H., Boston, Mass. Air-heating device for beds and rooms	333,820	Jan. 5	443	120	34	83
Bown, Albert. (See Plumb, Fawcett, assignor.)						
Bown, Albert, assignor of one-half to F. Plumb, Streator, Ill. Steam-engine	339,135	Apr. 6	24	7	35	7
Bown, Albert, assignor of one-half to F. Plumb, Streator, Ill. Engine	339,136	Apr. 6	25	8	35	7
Bowser, Matthias S., Lima, Ohio. Churn	350,524	Oct. 12	594	165	37	115
Bowyer, David G. (See Goodwin and Bowyer.)						
Bowyer, John M., Erie, Pa. Percussion-fuse for shells	348,314	Aug. 31	2620	706	36	981
Bowyer, John M., Erie, Pa. Reel for electric conductors	351,488	Oct. 26	2010	522	37	385
Boxendale, Frederick W. (See Boxendale, Peter and F. W.)						
Boxendale, Peter and F. W., Flanagan, Ill. Seed-planter	334,414	Jan. 19	1308	354	34	257
Boyce, Darwin C., Malden, W. Va. Loading and unloading apparatus	342,424	May 25	2031	536	35	906
Boyce, James. (See Tacy, Samuel H., assignor.)						
Boyce, Joseph B., Lockport, N. Y. Bench-hook	335,423	Feb. 2	470	121	34	525
Boyce, Washington, Danville, Ill. Protographic-paper box	346,353	July 27	2205	565	36	421
Boyd, Angus, Moberly, Mo. Railway-switch	335,209	Feb. 2	175	46	34	472
Boyd, Daniel, *et al.* (See Thorpe and Richardson, assignors.)						
Boyd, James T., Cooper, Miss. Scraper	333,990	Jan. 12	678	185	34	135
Boyd, Thomas C., Chicago, Ill. Frost-proof ventilator for soil and other pipes	334,337	Jan. 19	1204	324	34	232
Boyd, Thomas C., Chicago, Ill. Frost-proof protector for ventilation and other pipes	346,714	Aug. 3	334	91	36	526
Boyd, Thomas C., Chicago, Ill. Frost-proof attachment for soil and other pipes	346,715	Aug. 3	335	91	36	526
Boyd, Trustin B., St. Louis, Mo. Copying-press	336,086	Feb. 16	1427	376	34	708
Boyd, William E., Selma, Ala. Shot-cartridge	347,988	Aug. 24	2152	572	36	885
Boyd, William S., 3d, Chicago, Ill. Automatic railway-switch	347,317	Aug. 17	1771	314	36	698
Boyden, Byron E., Bridgeport, Conn. Band	338,335	Mar. 23	1363	516	34	1363
Boyden, George A. (See Blattan and Boyden.)						
Boyden, William A., assignor of one-half to J. C. Gilbert, Brooklyn, N. Y. Piston-packing	342,819	June 1	59	15	35	1017
Boyden, William P., Cleveland, Ohio, C. A. Clark, Chesterfield, N. H., and C. N. Trump, Wilmington, Del. Cattle-mark	344,241	June 22	2100	537	35	1410
Boyer, Allen B. Jones, Mich. Hay-sling	348,950	Sept. 14	565	150	36	1156
Boyer, Arthur M., assignor to M. R. Simpson, Winnetka, Ill. Horse-blanket	341,635	May 11	926	245	35	686
Boyer, Louis W., San Francisco, Cal., assignor to Roller Bearing Company, New York, N. Y. Anti-friction bearing	346,716	Aug. 3	336	91, 92	36	526
Boyer, Thomas J., assignor of three-fourths to G. D. Hamor, E. Kuntz, and A. M. Roscoe, Doylestown, Pa. Insecticide	351,897	Nov. 2	237	.....	37	502
Boyer, William H., Lebanon, Pa. Adjustable square and gage	341,126	May 4	213	64	35	544
Boyer, Zaccur P., Philadelphia, Pa. Steam-heating apparatus	347,463	Aug. 17	1385	368 / 369	36	736
Boyer, Zaccur P., Philadelphia, Pa. Cable-railway construction	351,531	Dec. 21	1284	342	37	1254
Boyers, Robert L., Sunset, Tex. Car-coupling	344,715	June 29	2738	711	35	1535
Boyle, Eugene O., Champlain, N. Y. Glass-cutting gage	336,834	Feb. 23	2462	653	34	904
Boyle, James E., East New York, N. Y. Flushing-tank	346,261	July 27	2085	536 / 537	36	400
Boyle, James E., East New York, N. Y. Water-closet	354,623	Dec. 21	1432	380	37	1280
Boyle, James E., East New York, N. Y. Periodical-flushing tank	354,624	Dec. 21	1434	380	37	1280
Boyle, John, trustee. (See Fowler, Joseph C., assignor.)						
Boyle, Thaddeus W., Augusta, Ga. Cotton and corn scraper and cultivator	344,716	June 29	2738	711	35	1535
Boyle, Thaddeus W., Augusta, Ga. Plow	345,027	July 6	330	83	36	60
Boylen, James F. (See Cheney and Boylen.)						
Boyles, Andrew, Concordia, Kans. Feed-trough	351,489	Oct. 26	2011	522	37	385
Boynton, Charles A. (See Morse, George, assignor.)						
Boynton, Charles S., and W. J. Van Patten, assignors to Wells & Richardson Company, Burlington, Vt. Food product from cereals	344,717	June 29	2739	.....	35	1535
Boynton, George O., Boston, assignor to S. Moore, trustee, Newton, Mass. Spool or bobbin	343,361	June 8	874	220	35	1173
Boynton, Horace S., Oshkosh, Wis. Cutter-head	344,810	July 6	9	3	36	4
Boynton, Nathaniel A., New York, N. Y. Plate-joint for stoves or ranges	337,127	Mar. 2	327	86	34	986
Brabson, Thomas, Newark, N. J. Hame-tip	353,606	Nov. 16	1224	332	37	762
Brace, George W. (See Swett and Brace.)						
Bracey, Altamont H. (See Throckmorton, James J., assignor.)						
Brach, Otto, Berlin, Germany. Porous mass for blotting purposes and for making cigar-pipes, &c	347,565	Aug. 17	1527	.....	36	762
Bracher, Thomas W. (See Moeslein, Valentine, assignor.)						
Bracher, Thomas W., New York, N. Y. Hat	354,882	Dec. 28	1794	473	37	1661
Brachmann, William P., Newark, N. J. Injector	347,566	Aug. 17	1527	406 / 407	36	763
Brackbill, Aldus A., Greenland, Pa. Whiffletree-hook	352,295	Nov. 9	830	222	37	618
Brackelsberg, Ernst W, Hagen, Prussia, Germany. Type-writing machine	335,887	Feb. 9	1140	302 / 303 / 304	34	652
Bracken, Andrew, New Haven, Conn. Horse-railway curve	354,883	Dec. 28	1795	473	37	1362
Bracken, Henry W., San Francisco, Cal. Safety air-clutch for elevators	349,299	Sept. 21	1033	264	36	1252
Brackman, George H., Lake Run, Pa. Wire-stretcher	333,821	Jan. 5	445	120	34	83
Brada, Charles, assignor of one-half to F. Goetz, Chicago, Ill. Malt-drier	355,128	Dec. 28	2141	563 / 564	37	1426
Bradbeer, Thomas J., assignor to Putnam & Wineman, Detroit, Mich. Chimney-cowl	350,800	Oct. 12	994	266	37	187
Bradberry, William T., Allegheny, Pa. Gas-burner	344,808	July 6	7	2	36	4
Bradbury, Charles J., Mattapan, Mass. Top for suction-boxes of paper-making machines	342,497	May 25	2135	564	35	925
Bradbury, Edward T., Mahanoy City, Pa. Sash-cord fastener	345,878	July 20	1545	399	36	289
Bradbury, Edward T., Mahanoy City, Pa. Pie-lifter	348,717	Sept. 7	251	67	36	1094

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Bradbury, John M. (See Griswold and Bradbury.)						
Braddock, Edward I., Medford, Mass. Flower-vase	342,675	May 25	2382	630	35	971
Braddock, Warren L., Boston, Mass. Garment-supporter	346,262	July 27	2086	537	36	400
Braddock, Warren L., and H. J. Witchell, Boston, Mass. Billiard-bridge hook or support	353,013	Nov. 23	1784	480	37	816
Bradel, William, assignor to T. Schmitz, New York, N. Y. Manufacture of spoons	344,517	June 29	2489	641	35	1487
Bradford, Charles K., Lynnfield, Mass. Sole-inking device	345,606	July 20	1251	324	36	238
Bradford, Charles K., Lynnfield, Mass. Device for tapering the ends of shoe-makers' threads	349,564	Sept. 21	1408	364	36	1324
Bradford, Charles K., Lynnfield, assignor to G. H. P. Flagg, trustee, Boston, Mass. Abrading-machine	333,991	Jan. 12	679	185	34	135
Bradford, Charles K., Lynnfield, assignor to G. H. P. Flagg, trustee, Boston, Mass. Buffing-roll for boots or shoes	334,162	Jan. 12	940	254	34	181
Bradford, Charles W., Thorndike, Me. Key-fastener	336,788	Feb. 23	2424	638	34	893
Bradford, Chester. (See Leonard, Charles N., assignor.)						
Bradford, Chester, *et al.* (See Woolley, Leonidas G., assignor.)						
Bradford, Edward A. (See Greenleaf, Joseph H., assignor.)						
Bradford, Edward W., trustee. (See King, Charles W., assignor.)						
Bradford, George A., Bergen Point, N. J. Sauce-pan and cover	334,560	Jan. 19	1516	406	34	293
Bradford, Hezekiah, Philadelphia, Pa. Saving floating materials in ore-separation	345,951	July 20	1649	425, 426	36	309
Bradford, Sydney S., Norfolk, Va. Life-saving car	343,158	June 8	560	141	35	1117
Bradley Automatic Coupler Company of the City of New York. (See Bradley, John, assignor.)						
Bradley, Byron C., Chicago, Ill. Tongueless cultivator	334,688	Jan. 19	1689	431, 432	34	326
Bradley, Byron C., Chicago, Ill. Locking device for harrow-teeth	344,809	July 6	8	2	36	4
Bradley, Byron C., Chicago, Ill. Stalk-cutter	353,398	Nov. 30	2341	625	37	928
Bradley, Charles S., assignor to Edison Electric Light Company, New York, N. Y. Electrical testing	353,915	Dec. 7	383	101	37	1077
Bradley, Charles S., Yonkers, and F. B. Crocker, New York, N. Y., assignors to Cowles Electric Smelting and Aluminium Company, Cleveland, Ohio. Heating and reducing ores by electricity	335,499	Feb. 2	569	149	34	542
Bradley, Charles T., *et al.* (See Shaw and Walden, assignors.)						
Bradley, Christopher C. (See Deering, Michael, assignor.)						
Bradley, Christopher C. (See Faulder, Thomas, assignor.)						
Bradley, Edward E. (See Atwood and Bradley.)						
Bradley, Edward E., Stonington, Conn., assignor to G. Draper & Sons, Hopedale, Mass. Sleeve-whirl spindle for spinning-frames	333,822	Jan. 5	446	121	34	83
Bradley, Edward E., Stonington, Conn., assignor to G. Draper & Sons, Hopedale, Mass. Spindle	333,914	Jan. 5	568	154	34	106
Bradley, Frank B. (See Parrish, James F., assignor.)						
Bradley, Frank W., Denver, Colo. Fruit-pulper	343,754	June 15	1445	360	35	1282
Bradley, Gilbert W., Sunderland, Vt. Butter-package	355,252	Dec. 28	2327	612	37	1463
Bradley & Hubbard Manufacturing Company. (See Buxton, Antony, assignor.)						
Bradley & Hubbard Manufacturing Company. (See Evarts, John A., assignor.)						
Bradley, John, Newark, N. J., assignor to Bradley Automatic Coupler Company of the City of New York. Car-coupling	339,261	Apr. 6	211	53	35	30
Bradley, Leonard, *et al.* (See Dickson, William R., assignor.)						
Bradley Manufacturing Company, David. (See Packer, John F., assignor.)						
Bradley, Peter B., Boston, Mass. Apparatus for handling fertilizers and other granular substances	345,479	July 13	947	239	36	176
Bradley, Voorhees & Day Manufacturing Company. (See Calo, Christopher G., assignor.)						
Bradley, William. (See Allen and Bradley.)						
Bradley, Willis H., Rockford, Ill. Wrench	347,681	Aug. 17	1708	456	36	796
Bradshaw, Ira H., assignor of one-half to A. E. Ball, San Francisco, Cal. Car-coupling	338,821	Mar. 30	2654	699	34	1430
Bradshaw, John A., assignor of two-thirds to J. J. Mehan and C. O'Connor, Lowell, Mass. Carding-engine	341,443	May 11	659	178	35	634
Bradshaw, John W., Indianapolis, Ind. Unsoldering and cleaning tin-cans	344,561	June 29	2547	658	35	1498
Brady, Edward J., Brooklyn, N. Y. Service stop-cock	353,533	Nov. 30	2542	677	37	966
Brady, James, Brooklyn, N. Y. Machinist's jig	334,340	Jan. 12	1209	326	34	232
Brady, James, Brooklyn, N. Y. Making dies	335,334	Feb. 2	347	90	34	503
Brady, James, Brooklyn, N. Y. Electric-arc lamp	355,129	Dec. 28	2143	564	37	1427
Brady, James N., *et al.* (See Adams, Henry P., assignor.)						
Brady, John, Philadelphia, Pa. Sash-lock	345,480	July 13	949	239	36	176
Brady, Patrick, Cambridgeport, Mass. Manufacture of lamp-shades	352,641	Nov. 16	1274	343	37	710
Brady, Thomas H., New Britain, Conn. Suspending electric lights	338,919	Mar. 30	2797	737	34	1456
Brady, Thomas H., New Britain, Conn. Apparatus for suspending electric lights	338,920	Mar. 30	2798	737	34	1456
Brady, Thomas H., New Britain, Conn. Cap-iron for poles for suspending electric lights	339,371	Apr. 6	369	90	35	69
Brady, Thomas S., New York, N. Y. Chin-rest for tobacco-pipes	353,197	Nov. 23	2058	549	37	869
Brady, William, and D. Fitzpatrick, Virginia City, Nev. Hand-power rock-drill	344,076	June 22	1876	482	35	1369
Brady, William A., Spencer, Iowa. Band cutter and feeder	352,112	Nov. 9	566	150	37	572
Brady, William J., San Francisco, Cal. Forming curved metallic pipes	337,475	Mar. 9	828	210	34	1081
Bragaldi, Mario, New York, N. Y. Box for letters and other articles	349,382	Sept. 21	1163	301	36	1276
Bragg, Cains C., Avondale, Ohio. Camera	339,736	Apr. 13	940	231	35	171
Bragg, Thomas P. (See Brown and Bragg.)						
Brahn, James, Jersey City, N. J. Switch-stand	342,322	May 25	1876	497	35	880
Braidwood, John R., and S. Oswalt, Pittsburg, Kans. Shaft and elevator for mines	337,734	Mar. 9	1143	296, 297	34	1137
Braillard, Francis F., Brooklyn, assignor to Tiffany & Co., New York, N. Y. Clasp for bag-frames	344,437	June 29	2373	611	35	1467
Brainard, Amos H., Hyde Park, Mass. Dividing-engine	343,980	June 22	1728	443, 444	35	1343
Brainard, Curtis B., Joliet, Ill. Pool-ball rack	342,676	May 25	2383	630	35	971
Brainard, Curtis B., assignor to W. J. Adam, Joliet, Ill. Machine for making stays for wire fences	345,104	July 6	423	108, 109	36	77
Brainard, Curtis B., assignor to W. J. Adam, Joliet, Ill. Stay for wire fences	345,877	July 20	1545	399	36	289
Brainerd, Frederic. (See Hart, Hubert C., assignor.)						
Brainerd, Newell W. (See French, Nathaniel G., assignor.)						
Braithwaite, Charles H., Ardmore, G. Lane, Philadelphia, Pa., and W. Herring, Staten Island, N. Y. Pole for lawn-tennis nets	349,686	Sept. 28	1565	405	36	1363
Brake, Archibald, Toronto, Ontario, Canada. Pail, &c	353,198	Nov. 23	2059	549	37	869
Braley, Henry C., assignor of one-half to J. H. Cameron, Fall River, Mass. Shutter-fastener	341,402	May 4	606	166	35	614
Brambach, Stephan, New York, N. Y. Upright-piano case	334,933	Jan. 26	1999	533	34	392
Brambel, Grant, assignor of one-half to F. J. Dunham, Havana, N. Y. Telephone-transmitter	345,762	July 20	1392	361	36	263

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Bramble, Ordella, Frederick, Dak. Ter. Tea or coffee pot	340,552	Apr. 27	2084	538	35	395
Brankamp, John H., Denver, Colo. Milk-cooler	347,085	Aug. 10	847	225	36	628
Bramley, Jabez W., Lockport, N. Y. Force-pump	340,277	Apr. 20	1697	432	35	315
Brammer, Henry F., and E. H. Schmidt, Davenport, Iowa. Churn	335,739	Feb. 9	923	243	34	613
Brampton, Frederick W., Birmingham, county of Warwick, England. Machinery for manufacturing fencing-wire	352,514	Nov. 16	1101	297, 298	37	680
Bramwell, William C., Hyde Park, Mass. Mechanical movement	334,341	Jan. 12	1211	327	34	233
Bramwell, William C., Hyde Park, Mass. Endless metallic apron for card-feeding mechanism, &c.	342,948	June 1	248	64	35	1051
Bramwell, William C., Hyde Park, Mass. Weighing mechanism for wool and other fiber	342,949	June 1	250	64	35	1051
Branch, Robert H., Martinsville, Ind. Dumping-wagon	337,476	Mar. 9	829	210	34	1081
Branch, Robert H., Martinsville, Ind. Wagon-tongue	341,791	May 11	1130	298	35	726
Branchler, Henry, assignor of one-half to J. Wimer, Greensburg, Pa. Blacksmith's hearth	337,735	Mar. 9	1145	297	34	1138
Brand, Fred J., *et al.* (See Wood, Lucius A., assignor.)						
Brand, Frederick J., Southington, Conn. Reed-plate for musical instruments	338,336	Mar. 23	1964	517	34	1303
Brand, Frederick J., New Britain, Conn. Shifting carriage-top	339,730	Dec. 7	113	31	37	1027
Brand, Henry, and A. J. Vollrath, Sheboygan, Wis. Adjustable gage for supporting clap-boards	354,680	Dec. 21	1512	401	37	1295
Brand, John S., *et al.* (See Wood, Lucius A., assignor.)						
Brandau, Julius V., Lichtenau-Hesse-Nassau, Prussia, Germany. Remedy for excessive perspiration	351,021	Oct. 26	2207	571	37	422
Branden, Jeffries R., Detroit, Mich. Alarm	354,884	Dec. 28	1796	474	37	1362
Brandenburg, Fowler A., Vandalia, Ohio. Lifting-jack	342,333	May 25	1877	497	35	881
Brandenstein, Alfred J., *et al.* (See Noyes, Henry J., assignor.)						
Brandes, Charles E. A., Brooklyn, N. Y. Station-indicator	349,141	Sept. 14	833	212	36	1204
Brandes, Henry H., assignor of one-half to A. P. Floyd, Corydon, Ky. Harness-bridal attachment	347,464	Aug. 17	1386	369	36	736
Brandon, Alexander, New York, N. Y. Insulating-support for electric conducting-wires	342,324	May 25	1878	497	35	881
Brandon, James, New York, N. Y. Piston-packing	345,569	July 13	1102	282	36	204
Brandt, Louis, Bienne, Switzerland. Toy or game	342,677	May 25	2384	631	35	971
Brandy, James, Lawrence, assignor to Bay State Felt Boot and Shoe Company, Merrimac, Mass. Felt boot, shoe, or stocking	344,438	June 29	2374	611	35	1467
Branham, Albert G. (See Winfrey and Branham.)						
Branham, George F. (See Noble and Branham.)						
Brannick, Edward M. (See Wienberg, Fred., assignor.)						
Branson, James L., Philadelphia, Pa. Knitting-machine	334,338	Jan. 12	1205	325, 326	34	232
Branson, James L., and H. Brinton, Philadelphia, Pa. Stocking-blank	334,339	Jan. 12	1208	326	34	232
Brantley, Thomas, Eufaula, Ala. Steam-engine	339,965	Apr. 13	1240	309	35	227
Brantley, Thomas, Eufaula, Ala. Valve for steam-engines	344,342	June 29	2240	577	35	1442
Bratby, William, and J. Chadwick, Manchester, county of Lancaster, England. Turn-over filling-machine	343,001	June 1	307	79	35	1063
Bratschie, Amiel, Sharpsburg, Pa. Thill-coupling	353,478	Nov. 30	2457	636	37	951
Braun, Frederick, Milwaukee, Wis. Combined sidewalk light and ventilator	345,105	July 6	425	109	36	78
Braun, John. (See Lorey and Braun.)						
Braun, Theobald, Athy, assignor of one-half to A. Feik, Volcano, W. Va. Seeding-machine	351,247	Oct. 19	1628	428	37	311
Brautigam, Joseph A., New York, N. Y. Sweat-band sewing-machine	336,204	Feb. 16	1610	421, 422	34	740
Brautigam, Joseph A., New York, N. Y. Presser-foot for pearl-braid sewing-machines	347,465	Aug. 17	1387	369, 370	36	736
Brautigam, Joseph A., New York, N. Y. Stitching reed-covers to hat-sweats	347,466	Aug. 17	1389	370	36	737
Bray, George, Blackman Lane, Leeds, county of York, England. Gas-regulator	333,823	Jan. 5	447	121	34	83
Bray, Horace B., Gainesville, Tex. Burglar-alarm	347,086	Aug. 10	848	225	36	629
Bray, James B., Waverly, N. Y. Portable fire-escape	342,820	June 1	60	15, 16	35	1017
Bray, Sanford, Boston, Mass. Joining glass mosaics	349,424	Sept. 21	1217	316	36	1287
Bray, William H., assignor to himself and D. H. Howes, Boston, Mass. Packing for glass gage-tubes	341,444	May 11	662	178	35	635
Brayton, James T., assignor of one-half to S. G. Hart, Geneva, N. Y. Thermometer or like instrument	345,106	July 6	426	109, 110	36	78
Brazil, Peter B., Cheboygan, Mich. Snow-plow	346,637	Aug. 3	240	66	36	506
Brearley, Thomas, Bolsterstone, county of York, assignor to S. Fox & Company, (limited,) Stocksbridge Works, Deepcar, near Sheffield, England. Umbrella, parasol, or sunshade	353,841	Dec. 7	269	71	37	1056
Brechner, Israel, Waterloo, Iowa. Door-check	351,158	Oct. 19	1511	396	37	290
Brecht, Theodore C., *et al.* (See Phelps, Ira M., assignor.)						
Breed & Co., S. N. (See Blaney, Elbridge G., Jr., assignor.)						
Breed, William J., and P. G. Ober, assignors to Crane & Breed Manufacturing Company, Cincinnati, Ohio. Coffin	353,916	Dec. 7	385	102	37	1077
Breed, Zephaniah, assignor of one-half to J. E. Jones, Weare, and W. H. M. Cate, Henniker, N. H. Weeder	354,625	Dec. 21	1435	381	37	1280
Brehmer, August, Leipsic, Germany. Book-sewing machine	335,210	Feb. 2	177	46, 47, 48	34	472
Breidenstein, Leonhardt. (See Samuel and Breidenstein.)						
Breimier, P. C., *et al.* (See Brubaker, John H., assignor.)						
Breithut, Oscar P., Williamsport, Pa. Pivotal support for mirrors, transoms, &c.	341,636	May 11	927	246	35	686
Bremaker, Charles, Louisville, Ky. Paper-pulp digester	333,751	Dec. 7	114	31	37	1027
Brenner, William, George-town, Ontario, Canada. Knitting-machine	333,824	Jan. 5	448	122	34	84
Brengel, Jacob, New York, N. Y. Relief-valve	351,159	Oct. 19	1512	396	37	290
Brenizer, Charles L., Johnstown, Pa. Ratchet-drill	336,470	Feb. 16	1986	520	34	807
Brennan, Ann, *et al.* (See Harney, Michael C., assignor.)						
Brennan & Co. Southwestern Agricultural Works. (See Wolfe, Harvey R., assignor.)						
Brennan, Matthew, Louisville, Ky. Car-coupling	344,158	June 22	1986	508	35	1389
Brennan, William N., *et al.* (See Harney, Michael C., assignor.)						
Brenner, Francis X., Philadelphia, Pa. Hoisting-machine	334,740	Jan. 26	1763	470	34	347
Brent, Charles F., and A. Lang, Mount Vernon, Ohio. Combined hammer and planer	351,039	Oct. 19	1352	355	37	260
Brentano, Simon. (See Bresnan, John J., assignor.)						
Bresnan, John J., assignor of one-third to S. Brentano, New York, N. Y. Hose-hoist	351,160	Oct. 19	1513	396	37	290
Bressler, George, Huntington, Ind. Swinging and rolling farm-gate	333,915	Jan. 5	569	154	34	106
Bressler, George N. (See Batchelor, Charles D., assignor.)						
Bretherton, Martin, St. Louis, Mo. Combined window-seat and bedstead	348,653	Sept. 7	164	45	36	1077
Bretherton, Martin, St. Louis, Mo. Combined window-seat, bedstead, and couch	348,654	Sept. 7	167	46	36	1078
Bretherton, Martin, St. Louis, Mo. Combined window-seat and couch	348,655	Sept. 7	170	46	36	1078
Bretherton, Sidney E., and W. Colburn, Leadville, Colo. Slag-dump	339,737	Apr. 13	544	231	35	172
Brett, William P., Decatur, Ill. Friction-clutch	335,106	Feb. 2	7	2	34	442

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bretzfield, Samuel, New York, N. Y. Buckle	335,794	Feb. 9	1003	266	34	627
Bretzfield, Samuel, New York, N. Y. Belt-buckle	341,127	May 4	215	64	35	545
Breuer, August, assignor to E. Matthes & Weber, Duisburg, Prussia, Germany. Filter	336,621	Feb. 23	2200	574	34	850
Brevoort, Henry L. (See Tweedy, Brevoort, and Roberts.)						
Brewer, Edgar, *et al.* (See Williams, William S., assignor.)						
Brewer, Frank, Marseilles, Ill. Steam-condensing doctor for paper-machines	334,415	Jan. 19	1309	355	34	257
Brewer, Horatio J., New York, N. Y. Galvanic battery	337,477	Mar. 9	831	210	34	1081
Brewer, Horatio J., New York, N. Y. Galvanic battery	346,395	July 27	2268	581	36	434
Brewer, James, Pueblo Colo. Rotary pump	353,199	Nov. 23	2060	550	37	870
Brewer, James P., and W. G. Smith, New Haven, Conn. Apparatus for signaling policemen	347,318	Aug. 17	1174	314	36	698
Brewer, John B., and J. H. Corsbie; said Corsbie assignor to said Brewer, Hartsells, Ala. Harrow and pulverizer	352,440	Nov. 9	1011	273	37	655
Brewer, Roland L., assignor to E. Miller & Co., Meriden, Conn. Suspension device for lamps, &c	335,107	Feb. 2	8	3	34	442
Brewer, William N., Cleveland, Ohio. Horseshoe	343,885	June 15	1602	407	35	1312
Brewington, Henry S. (See Beazley and Brewington.)						
Brewster, Francis W., Kensington, county of Middlesex, England. Life-raft	354,386	Dec. 14	1071	287	37	1210
Brewster, Henry, *et al.* (See Dixon, James, assignor.)						
Brewster, Hiram E. (See McLoughlin and Brewster.)						
Brewster, James R. (See Williams and Brewster.)						
Brewster, Samuel W., and L. Sherwood; said Sherwood assignor to S. E. Sherwood, Southeast, N. Y. Boot-drier	336,987	Mar. 2	137	37	34	951
Breyer, Friedrich, Vienna, Austria-Hungary. Filtering material	336,205	Feb. 16	1613	422	34	741
Breyer, Friedrich, Vienna, Austria-Hungary. Producing filtering media	336,206	Feb. 16	1616	422	34	741
Breymann, George H. (See Thacher and Breymann.)						
Brian, William F., Parkville, Ill. Hay-derrick	335,888	Feb. 9	1143	304	34	652
Brickenstein, Laurence C., and C. A. Babendreier, Baltimore, Md. Device for decanting liquids	349,248	Sept. 14	977	249	36	1231
Bridenthal, Harry H., Latrobe, Pa. Road-engine	351,733	Nov. 2	5	1, 2	37	459
Bridesburg Manufacturing Company. (See Haas, George A., assignor.)						
Bridesburg Manufacturing Company. (See Mair, Robert, assignor.)						
Bridesburg Manufacturing Company. (See Shaw, Edwin F., assignor.)						
Bridewell, Richard F., San Francisco, Cal. Cable railway	343,981	June 22	1730	444	35	1344
Bridge, Henson, Decorah, Iowa. Remedy for hog-cholera	341,312	May 4	488	.....	35	593
Bridgeport Elastic Web Company. (See Bidwell, Joseph, assignor.)						
Bridges, Henry R., Greencastle, Ind. Sash-balance	333,992	Jan. 12	680	186	34	135
Bridges, Mortimer A., *et al.* (See Gooch, Harold, assignor.)						
Bridgman, Almon, Berlin, and J. Challoner, Omro, assignors to Yates Manufacturing Company, Berlin, Wis. Wood-polishing machine	352,988	Nov. 23	1747	468, 469	37	809
Brielmair, Frank, Nashville, Tenn. Stove	340,278	Apr. 20	1698	433	35	315
Brierley, Samuel. (See Banks and Brierley.)						
Briesen, Arthur v., New York, N. Y. Bracelet	334,844	Jan. 26	1889	503	34	371
Brigel, Leo A., Cincinnati, Ohio. Water-elevator	342,325	May 25	1879	498	35	881
Briggs, Edwin F., Brooklyn, N. Y. Rotary ventilator	338,473	Mar. 23	2157	564	34	1337
Briggs, George E., Bowling Green, Mo. Cultivator	347,087	Aug. 10	849	226	36	629
Briggs, George S., Rockford, Ill. Corn-planter wheel	333,593	Jan. 5	131	36	34	27
Briggs, Isaac, Jr. (See Fothergill and Briggs.)						
Briggs, J. Henry, Philadelphia, Pa. Sewing-cord	346,577	Aug. 3	161	44	36	491
Briggs, James E., Rochester, N. Y. Adjustable cover for holding pamphlets, magazines, or sheets	342,326	May 25	1880	498	35	881
Briggs, James E., New York, N. Y. Box-fastener	353,014	Nov. 23	1785	480	37	816
Briggs, John N., Coeymans, N. Y. Apparatus for planing cakes of ice for storing	346,576	Aug. 3	160	43	36	491
Briggs, Lucius, Glasgo, Conn. Condenser	340,279	Apr. 20	1699	433	35	315
Briggs, Orlando P., assignor to Ames & Frost, Chicago, Ill. Feeding device for wire-coiling and other machines	335,889	Feb. 9	1144	304	34	652
Briggs, Orlando P., assignor to Thorn Wire Hedge Company, Chicago, Ill. Wire-spooling machine	338,244	Mar. 23	1839	284, 285	34	1281
Briggs, Orlando P., assignor to C. L. Ames and A. H. Frost, Chicago, Ill. Machine for weaving coiled-wire fabric for bed-bottoms	348,150	Aug. 24	2371	636, 637	36	927
Briggs, Thomas, and E. Webb, Salford, county of Lancaster, England. Yarn-twisting machine	341,792	May 11	1131	299	35	726
Briggs, Thomas, and E. Webb, Salford, county of Lancaster, England. Doubling and winding machine	342,063	May 18	1504	402	35	803
Briggs, Thomas, and E. Webb, Salford, county of Lancaster, England. Doubling and twisting machine	346,396	July 27	2269	581, 582	36	434
Briggs, Warren R., Bridgeport, Conn. Latch	348,656	Sept. 7	172	46, 47	36	1078
Briggs, Warren R., Bridgeport, Conn. Night-latch	348,657	Sept. 7	173	47	36	1078
Briggs, Warren R., Bridgeport, Conn. Knob attachment	350,576	Oct. 12	671	183	37	129
Briggs, William. (See Fothergill and Briggs.)						
Briggs, William H., Bond Hill, Ohio. Car-lamp	353,661	Dec. 7	11	3	37	1009
Briggs, William H., Bond Hill, Ohio, assignor to Post & Co. Lamp-coupling	343,159	June 8	561	141	35	1117
Briggs, William H., Bond Hill, assignor to Post & Co., Cincinnati, Ohio. Lamp-coupling	345,615	July 13	1160	297	36	215
Briggs, William H., and G. M. Clark, Chicago, Ill. Signal-lantern and flag-holder	340,090	Apr. 20	1420	359	35	265
Brigham, C. T. (See Butler, Beauman, assignor.)						
Brigham, Lamson & Co. (See Seely, Samuel F., assignor.)						
Brigham, Levi, Osseo, Minn. Rail for railway-curves, &c	352,113	Nov. 9	568	151	37	572
Brigham, Lyscom, Orangeville Mills, Mich. Soft-ground horseshoe	345,763	July 20	1393	361	36	264
Brighams, Cortes T. (See Butler, Beauman, assignor.)						
Bright, James H., St. Louis, Mo. Tool for finishing joints of brick walls, &c	338,029	Mar. 16	1559	403	34	1218
Brightwell, Amazon W., assignor of one-half to M. M. Allhands, Owen, Ind. Cover for jars	352,392	Nov. 9	954	255	37	644
Brill, George M., assignor of one-half to J. Rawle, Philadelphia, Pa. Car-truck	339,041	Mar. 30	2975	787	34	1487
Brill, George M., and J. Rawle, Philadelphia, Pa. Car-truck	339,040	Mar. 30	2973	787	34	1486
Brill, George M., and J. Rawle, Philadelphia, Pa. Sign and advertising-board for street-cars	352,284	Nov. 30	2174	582	37	898
Brill, John A., Philadelphia, Pa. Car-coupling	351,734	Nov. 2	8	2	37	460
Brill, John A., Philadelphia, Pa. Brake-rod handle	351,735	Nov. 2	9	2	37	460
Brill, John A., and E. H. Zitzman, Philadelphia, Pa. Car-coupling	346,460	Aug. 3	13	4	36	463
Brimer, Benjamin F. (See Brimer, Jacob, B. F., W. M., and J. B.)						
Brimer, Jacob, B. F., W. M., and J. B., Richland Centre, Wis. Hay-loader	337,811	Mar. 16	1252	325	34	1164
Brimer, Jacob B. (See Brimer, Jacob, B. F., W. M., and J. B.)						
Brimer, William M. (See Brimer, Jacob, B. F., W. M., and J. B.)						
Brin, Arthur. (See Brin, Léon Q. and A.)						
Brin, Léon Q. and A., Paris, France, assignors to S. W. Cragg, Baltimore, Md. Manufacture of anhydrous oxide of barium	338,628	Mar. 23	2365	622	34	1373

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Bringold, John H., Albany, N. Y. Package for belt-dressing compounds	337,235	Mar. 2	471	123	34	1013
Brink, Chester W., assignor of one-half to E. Ainsworth, Wilmington, Del. Gaff-clamp	349,834	Sept. 28	1793	463	36	1405
Brink, John L., assignor of one-half to A. C. Dennis, Dubuque, Iowa. Heating apparatus	343,219	June 8	647	161	35	1133
Brinkerhoff, John J., Auburn, N. Y. Clothes-wringer	345,952	July 20	1651	426	36	309
Brinkerhoff, Parcel, Battle Creek, Mich. Car-coupling	343,294	June 8	764	191	35	1154
Brinkerhoff, Samuel, assignor to Fremont Cultivator Company, Fremont, Ohio. Standard-clamp for cultivators	336,566	Feb. 16	2028	532 533	34	815
Brinkerhoff, Warren M., Auburn, N. Y. Ventilating attachment for heating-stoves	339,966	Apr. 13	1241	310	35	227
Brinkerhoff, Warren M., Auburn, N. Y. Ventilator	345,107	July 6	429	110	36	78
Brinkerhoff, Warren M., Auburn, N. Y. Ventilating attachment for stoves	346,717	Aug. 3	337	92	36	526
Brinkerhoff, Warren M., Auburn, N. Y. Ventilating attachment for stoves	349,425	Sept. 21	1218	316	36	1287
Brinkerhoff, Warren M., Auburn, N. Y. Ventilating attachment for stoves	354,765	Dec. 21	1635	433	37	1319
Brinkerhoff, Warren M., Auburn, N. Y. Ventilating attachment for stoves	354,766	Dec. 21	1637	433 434	37	1319
Brinkman, Henry J., assignor of two-fifths to B. O'Neill, Minneapolis, Minn. Middlings-purifier	351,307	Oct. 19	1711	449 450	37	325
Brinkmann, Augustus H. (See Buschmann, Victor H., assignor.)						
Brinkmann, Augustus H., Baltimore, Md. Bustle	344,159	June 22	1987	508	35	1389
Brinkmeyer, John G. (See Alapaw, Charles H., assignor.)						
Brintnall, Thomas M. (See Norris and Brintnall.)						
Brintnall, Thomas M., Maryville, Mo. Automatic safe-bolt work	354,681	Dec. 21	1513	401 402	37	1295
Brinton, Caleb, Chicago, Ill. Roller-skate	337,922	Mar. 16	1394	362	34	1190
Brinton, Caleb J., Jr., Philadelphia, Pa. Car-coupling	345,108	July 6	430	110	36	78
Brinton, George H., Philadelphia, Pa. Syringe	351,736	Nov. 2	10	3	37	460
Brinton, Henry. (See Branson and Brinton.)						
Brisbin, Eugene, Weston, Ohio. Wire-fence post	338,030	Mar. 16	1559	404	34	1248
Brisbois, Alfred. (See Federmeyer, Leon P., assignor.)						
Briscoe, John, Bolivar, N. Y. Relief-valve	337,236	Mar. 2	472	123	34	1013
Brislin, David A. (See Murray and Brislin.)						
Brislin, John, Millvale, and A. Vinnac, Pittsburg, Pa. Feeding mechanism for rolling-mills	345,953	July 20	1653	426	36	310
Bristol Brass and Clock Company. (See Taplin, Alvin, assignor.)						
Bristol, Charles B., New Haven, Conn. Clasp for hitching-straps	353,842	Dec. 7	270	72	37	1056
Bristol, Charles B., assignor to W. & E. T. Fitch, New Haven, Conn. Snap-hook	343,942	June 15	1069	428	35	1326
Bristol, Edmund R. (See Wescott and Bristol.)						
Bristol, Lambert J., New Haven, Conn. Snap-hook	341,445	May 11	663	179	35	635
Brittain, John A., assignor to himself and F. G. Du Bois, New York, N. Y. Game-counter	347,467	Aug. 17	1390	370	36	737
Britton, Andrew L., Philadelphia, Pa. Face-protector	351,248	Oct. 19	1630	428	37	311
Britton, Andrew L., Philadelphia, Pa. Ear-muff	352,032	Nov. 2	439	119	37	541
Britton, Andrew L., Philadelphia, Pa. Ear-muff	352,033	Nov. 2	438	119	37	541
Britton, Channing M., *et al.* (See Dixon, James, assignor.)						
Britton, John W., *et al.* (See Dixon, James, assignor.)						
Britton, Perry, and P. Truesdale, South Charleston, Ohio. Carpet-stretcher	343,432	June 8	975	244	35	1191
Britton, Rodney G., Springfield, Vt. Velocipede	353,917	Dec. 7	386	102	37	1077
Broadbent, Charles F., assignor to Magnolia Laundry Soap Manufacturing Company, Baltimore, Md. Soap compound	346,461	Aug. 3	15	.....	36	463
Broadhead, James, assignor to M. Broadhead, Cornwall, N. Y. Machinery for manufacturing felted and napped fabrics	355,130	Dec. 28	2146	565	37	1427
Broadhead, Mary. (See Broadhead, James, assignor.)						
Broadhurst, George H., Brooklyn, N. Y. Finger-nail polisher	338,245	Mar. 23	1843	485	34	1282
Broadnax, Amos, Brooklyn, N. Y. Belting for driving machinery	340,280	Apr. 20	1701	433	35	316
Broadus, J. H. (See Cool, Peter, assignor.)						
Brochu, Michael, and L. Ladriere, Grand Rapids, Mich. Extension-ladder	351,622	Oct. 26	2208	571	37	422
Brock, Adaline, Dunellen, N. J., assignor to Brock Flexible Fence Company, New York, N. Y. Flexible metallic fence	344,077	June 22	1877	482	35	1370
Brock Flexible Fence Company. (See Brock, Adaline, assignor.)						
Brock, Granville, Sparta, Ky. Wheel for vehicles	336,207	Feb. 16	1620	422	34	741
Brock, Matthias, Boston, Mass., assignor to McKay & Copeland Lasting Machine Company, Portland, Me. Machine for preparing vamps for lasting	352,851	Nov. 16	1550	418 419	37	763
Brock, William R. (See Diamond and Brock.)						
Brockie, James, Brixton, county of Surrey, and M. W. W. Mackie, Turk's Head Yard, Turnmill Street, county of Middlesex, England. Rotary engine	355,131	Dec. 28	2148	565	37	1427
Brocklebank, Peter L., Saratoga Springs, N. Y. Window-grating	341,313	May 4	898	132	35	593
Brockschmidt, Henry. (See Seng, Wendelin, assignor.)						
Brockway, Damon W., Dover, Me. Valise	337,367	Mar. 9	649	172	34	1053
Brockway, Richard B. (See Thurber and Brockway.)						
Broderick & Bascom Rope Company. (See Frederick, Edward P., assignor.)						
Brodnax, John T., New Orleans, La. Suspenders	334,509	Jan. 19	1446	388	34	281
Brodrick, John, New York, N. Y. Autographic stencil and producing the same	345,109	July 6	430	110	36	79
Brodrick, Peter W. D., *et al.* (See Warren, John, assignor.)						
Brogan, William W., Otis, Mass. Key-hole guard	336,720	Feb. 23	2425	638	34	894
Broker, William J., Osakis, Minn. Bag-holder	344,078	June 22	1878	482	35	1370
Brombacher, Charles, Tarrytown, N. Y. Machine for folding sheet metal	351,490	Oct. 26	2012	522	37	385
Bromley, Daniel, *et al.* (See Spenneberg, George J., assignor.)						
Bromley, Daniel, Carrollton, Ky. Door-securer	334,636	Jan. 19	1618	431	34	313
Bromley, George, *et al.* (See Brose, David, assignor.)						
Bronson, Enos A., Wymore, Nebr. Compound for coating and finishing walls	346,143	July 27	1917	.....	36	367
Bronson, Lewis G., Chicago, Ill. Electric-arc lamp	348,542	Sept. 7	3	1	36	1049
Bronson, William C., Saratoga Springs, N. Y. Steam-heater	345,879	July 20	1547	400	36	290
Brooder, John D., Kane, assignor to himself and F. J. Clemenger, South Oil City, Pa. Packer for oil-wells	350,655	Oct. 12	791	215	37	151
Brookbank, James O., Driftwood, Pa. Device for cleaning brushes and combs	339,137	Apr. 6	26	8	35	7
Brooke, Homer. (See Schneider and Brooke.)						
Brooke, Isaac, Pottstown, assignor of two-thirds to C. S. Francis, Spring City, and S. B. Shalkop, Royer's Ford, Pa. Cellar or window screen	343,697	June 15	1355	338	35	1265
Brooke, Robert G. (See Holden, Brooke, and White.)						
Brookfield, William. (See O'Brien, John, assignor.)						
Brooklyn Electric Construction Company. (See Moffatt, Richard R., assignor.)						
Brooklyn Rail Way Supply Company. (See Campbell, Neil, assignor.)						
Brooks, A. S., *et al.* (See Michael, George W., assignor.)						
Brooks, Albert A., Seneca, Kans. Clothes-pounder	333,916	Jan. 5	570	154	34	107
Brooks, Charles. (See Brooks, Charles R., assignor.)						
Brooks, Charles E., Brooklyn, N. Y. Dental appliance	336,790	Feb. 23	2426	638	34	894

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Brooks, Charles E., Brooklyn, N. Y. Spring-roller	350,656	Oct. 12	792	215	37	151
Brooks, Charles M. (See Skinner and Brooks.)						
Brooks, Charles R., assignor to C. Brooks, New Durham, N. H. Automatic gate for railway-crossings	344,029	June 22	1799	463, 464	35	1356
Brooks & Co., E. J. (See Brooks, Edward J., assignor.)						
Brooks & Co., E. J. (See Wenk and Brooks, assignors.)						
Brooks, David, Jr., Philadelphia, Pa. Insulating material for electric wires	352,852	Nov. 16	1552	.....	37	764
Brooks, David, Jr., assignor of one-half to H. B. Tatham, Philadelphia, Pa. Insulating electric wires	340,931	Apr. 27	2600	685	35	485
Brooks, Edward J. (See Wenk and Brooks.)						
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Seal-press	339,042	Mar. 30	2976	787	34	1487
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Self-fastening seal	340,932	Apr. 27	2600	685	35	485
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Seal	345,764	July 20	1394	362	36	264
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Tin-strip seal	345,765	July 20	1396	362	36	264
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Self-fastening seal	348,509	Aug. 31	2894	778	36	1032
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Seal	348,884	Sept. 7	470	124	36	1134
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Lead and wire seal	349,873	Sept. 28	1841	476	36	1415
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Self-fastening seal	353,246	Nov. 23	2117	567	37	881
Brooks, Edward J., East Orange, N. J., assignor to C. H. Crosby, Brooklyn, and E. J. Brooks & Co., New York, N. Y. Safety-case for money-packages	354,459	Dec. 14	1172	313, 314	37	1228
Brooks, Franklin W., assignor to New York Lead Seal and Press Company, New York, N. Y. Lead seal	354,036	Dec. 7	560	152	37	1108
Brooks, Fred. P., Norwich, N. Y. Wooden fringe for furniture	343,982	June 22	1731	445	35	1344
Brooks, George E., New Haven, Conn. Spool-holder	339,738	Apr. 13	946	231	35	172
Brooks, Heman P., Brooklyn, N. Y., assignor to himself and J. L. Carson, Torrington, Conn. Bottle-stopper fastening	334,100	Jan. 12	845	231	34	164
Brooks, Horatio G., *et al.* (See Haskin, Uri, assignor.)						
Brooks, James M. (See Brooks, Rhodom M. and J. M.)						
Brooks, James W., trustee. (See Allen, Edward B., assignor.)						
Brooks, James W., trustee. (See Glidden, Charles W., assignor.)						
Brooks, James W., trustee. (See Goddu, Louis, assignor.)						
Brooks, James W., trustee. (See Wright, Ellery C., assignor.)						
Brooks, Jasper A. (See McNorton, John T., assignor.)						
Brooks, John, Plainfield, N. J. Sheet-delivery apparatus for printing-machines	349,781	Sept. 28	1720	444	36	1389
Brooks, John, Plainfield, N. J. Stereotype-casting machine	351,040	Oct. 19	1352	355, 356	37	260
Brooks, John, and W. A. Sweetser, Brockton, Mass. Lubricator	344,811	July 6	10	3	35	4
Brooks, John T., *et al.* (See Wilson, David, assignor.)						
Brooks, Jonathan W., Jr., Chicago, Ill. Reel for drying fishing-lines	336,888	Mar. 2	6	2	34	928
Brooks, Karmell, New York, N. Y. Folding bed	337,554	Mar. 9	929	238	34	1099
Brooks, Leonard R., Birmingham, Ala. Car-wheel	353,918	Dec. 7	387	102	37	1078
Brooks, Rhodom M. and J. M., Jenkinsville, Ga. Combined seed-planter and fertilizer-distributer	339,967	Apr. 13	1243	310	35	228
Brooks, S. E., *et al.* (See Michael, George W., assignor.)						
Brooks, W. H., *et al.* (See Mitchell, William A., assignor.)						
Brooks, Willard P., Topeka, Kans., assignor of two-thirds to F. A. A. Neals and J. H. Austermell, Kansas City, Mo. Clothes-rack	348,510	Aug. 31	2895	778	36	1033
Brooks, William B., assignor to Waterbury Manufacturing Company, Waterbury, Conn. Shaft-tip	340,091	Apr. 20	1422	359	35	265
Brooks, William D., Baltimore, Md. Can-soldering machine	352,034	Nov. 2	439	119, 120	37	541
Brooks, William D., assignor of one-third to D. D. Mallory, Baltimore, Md. Can-soldering machine	335,011	Jan. 26	2106	561	34	411
Brooks, William D., assignor of one-third to D. D. Mallory, Baltimore, Md. Can-soldering machine	335,012	Jan. 26	2108	561, 562	34	411
Brooks, William H., West Point, N. Y. Governor for circulator-pumps	353,776	Dec. 7	169	47	37	1038
Broome, Joseph B., Oswego, N. Y. Combined letter-box and door-bell	350,410	Oct. 5	402	115	37	80
Broomell, Albert P., York, Pa. Governor for engines	338,822	Mar. 30	2655	699	34	1430
Brophy, Truman W., Chicago, Ill. Dental matrix	346,082	July 20	1826	472	36	342
Brose, Daniel, and J. Baumgartner, New Washington, Ohio. Tile-machine	354,093	Dec. 14	642	174, 175	37	1132
Brose, David, assignor of three-fourths to G. W. Miller, J. J. McGuire, and G. Bromley, Pittsburg, Pa. Making steel	353,247	Nov. 23	2118	.....	37	881
Brosnan, Cornelius J., assignor of two-thirds to H. A. Gibbs and W. E. Wright, Springfield, Mass. Machine for attaching buttons	335,211	Feb. 2	179	48, 49	34	473
Brosnan, Cornelius J., assignor of two-thirds to H. A. Gibbs and W. E. Wright, Springfield, Mass. Button-feeding device	335,212	Feb. 2	183	49	34	473
Brosnan, Patrick J., Chicago, Ill. Window-sash	338,474	Mar. 23	2159	564	34	1338
Brostrom, Charles A., Rock Island, Ill. Harrow	334,342	Jan. 12	1212	327	34	233
Brotherhood, Fred, Charleston, S. C. Drying phosphate rock, &c	342,678	May 25	2385	631, 632	35	972
Brott, Solomon C. (See Derrick and Brott.)						
Broun, Nicholas H., Mobile, Ala., assignor of one-fourth to E. M. Hudson, New Orleans, La. Car-coupling	336,791	Feb. 23	2427	639	34	894
Brower, Emmett H., and J. J. Travis, Carson City, Mich. Stove-pipe collar and clamp	346,188	July 27	1976	510	36	379
Browett, Alec, 161 Highbury Hill, county of Middlesex, England. Apparatus for separating, damping, and fixing postage-stamps, &c	340,856	Apr. 27	2501	659	35	467
Brown, Aaron A. (See Thomsen, Christian W., assignor.)						
Brown, Aaron A., Cincinnati, Ohio. Method of sewing on buttons	354,532	Dec. 21	1286	343	37	1255
Brown, Aaron A., and J. A. Larsh, Cincinnati, Ohio; said Larsh assignor of four-fifths to said Brown. Machine for sewing on buttons	340,536	Apr. 20	2055	528, 529, 530	35	382
Brown, Abner G., deceased, Lima, Ohio., R. W. Brown, administrator. Washing-machine	350,035	Sept. 28	2054	530, 531	36	1454
Brown, Adam R., and W. H. Bell, Simpsonville, Ky. Pump	350,108	Oct. 5	18	5	37	7
Brown, Albert, Mendocino, Cal. Combined paper cutter and stamper	341,446	May 11	663	179	35	635

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Brown, Albert, Mendocino, Cal. Cloth-winder	351,092	Oct. 19	1424	373 374	37	273
Brown, Alexander T., Syracuse, N. Y. Lock mechanism for concealed-hammer guns	345,362	July 13	780	197	36	146
Brown, Alexander T., and W. L. Smith, Syracuse, N. Y. Safety-catch for gun-locks	350,109	Oct. 5	19	5	37	7
Brown, Alfred H., Freeport, Ill. Bag-tie	349,300	Sept. 21	1034	264	36	1253
Brown, Alvin K., Newton, Iowa. Garbage-destroyer	338,134	Mar. 16	1695	441	34	1245
Brown, Archie. (See Houtz and Brown.)						
Brown, Arthur F., and F. E. Stratton, San Francisco, Cal. Automatic cable road switch	338,823	Mar. 30	2657	699 700	34	1430
Brown, Arthur G., Brooklyn, N. Y., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Circuit-controlling key for incandescent electric lights	345,880	July 20	1548	400	36	290
Brown, Arthur G., Brooklyn, N. Y., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Circuit-controlling key for incandescent electric lamps	346,020	July 20	1751	451	36	327
Brown, B. Frank. (See Mitchell, James C., assignor.)						
Brown, B. Frank, *et al.* (See Simmons, John E., assignor.)						
Brown, Benjamin F., Montpelier, Vt. Apparatus for sealing envelopes	342,821	June	64	16	35	1018
Brown & Brown. (See Hoffman, Harvey H., assignor.)						
Brown, Charles, Albert Lea, Minn. Fire-escape	345,110	July 6	431	111	36	79
Brown, Charles A., Pittsfield, Vt. Ox-yoke	349,565	Sept. 21	1410	365	36	1325
Brown, Charles A., Lincoln, Iowa. Draft-equalizer	350,288	Oct. 5	254	74	37	53
Brown, Charles H., and H. W. Meyer, assignors to S. N. Brown & Co., Dayton, Ohio. Hub-mortising machine	345,766	July 20	1398	362	36	264
Brown, Charles M., Melbourne, Iowa. Submerged pump	345,271	July 13	656	167	36	125
Brown, Charles R. (See Brown, Elisha S. and C. R.)						
Brown, Charles R. (See Madden and Brown.)						
Brown, Charles W. and E. H., Washington, D. C. Furniture for printers' forms	340,548	Apr. 27	2078	536	35	394
Brown & Co., S. N. (See Brown and Meyer, assignors.)						
Brown, Daniel, Johnston, R. I. Cartridge-replacement	340,549	Apr. 27	2079	537	35	394
Brown, Daniel V., Philadelphia, Pa. Eyeglasses	348,449	Aug. 31	2809	755	36	1017
Brown, Daniel V., assignor to J. W. Queen & Co., Philadelphia, Pa. Eyeglasses	351,623	Oct. 26	2209	571	37	422
Brown, David A., and J. W. Roller, San Francisco, Cal. Adjustable inscription for name-plates	355,132	Dec. 28	2149	566	37	1428
Brown, David O. (See Reed, George W., assignor.)						
Brown, E. S., receiver. (See Elward, John H., assignor.)						
Brown, E. S., receiver. (See Stanton, Fread, assignor.)						
Brown, Edward I., Rockland, assignor, by mesne assignments, to J. R. Leeson, Newton, W. B. Arnold and G. A. Chamberlain, North Abington, Mass. Shoe or boot	342,679	May 25	2388	633	35	972
Brown, Edwin, trustee. (See Arnold, Oliver and C. W., assignors.)						
Brown, Edwin H. (See Brown, Charles W. and E. H.)						
Brown, Edwin H., *et al.*, executors. (See Saunders, Frank.)						
Brown, Edwin L., Chicago, Ill. Elevator-shaft	335,678	Feb. 9	825	220	34	595
Brown, Edwin L., Chicago, Ill. Ventilating vault-cover	339,138	Apr. 6	27	8	35	7
Brown, Edwin L., Chicago, Ill. Reversible vault-cover	339,139	Apr. 6	28	9	35	8
Brown, Edwin L., Chicago, Ill. Hinge for vault-covers	339,140	Apr. 6	29	9	35	8
Brown, Edwin L., Chicago, Ill. Cementing glass and other surfaces	340,550	Apr. 27	2081	537	35	394
Brown, Edwin L., Chicago, Ill. Candle	345,272	July 13	657	167	36	125
Brown, Edwin W., assignor to Preston Machine Company, Boston, Mass. Machine for stretching and molding the uppers of boots and shoes	346,422	July 27	2307	595	36	441
Brown, Elbridge M. (See Whitman and Brown.)						
Brown, Elisha S. and C. R., Santa Rosa, Mo. Cultivator	338,709	Mar. 30	2492	659	34	1401
Brown, Ethan A., assignor of one-half to W. McGinnis, Indianapolis, Ind. Tug-holder	345,410	July 13	851	212	36	158
Brown, Eugene H., and F. Lasher, Bennington, Vt. Stop-motion for knitting-machines	354,387	Dec. 14	1073	288	37	1210
Brown, F. Barton, Boston, Mass. Bathing apparatus	338,031	Mar. 16	1560	404	34	1219
Brown, F. Barton, Boston, Mass. Under-garment	352,393	Nov. 9	955	255	37	644
Brown, Francis C., New York, N. Y. Fountain-pen	345,411	July 13	852	213	36	158
Brown, Francis C., and D. W. Beaumel, assignors to M. Brown, New York, N. Y. Fountain-pen	353,399	Nov. 30	2342	626	37	928
Brown, Francis H. (See Brown, Harold P. and F. H.)						
Brown, Francis R., Boulder, Colo. Ore-separator	336,507	Feb. 16	2029	533	34	815
Brown, Frank, *et al.* (See Holt, Selden W., assignor.)						
Brown, Frank E., and G. P. Frain, Three Rivers, Mich. Vapor-burning apparatus for cook-stoves	338,386	Mar. 23	2040	535	34	1316
Brown, Frank O., New York, N. Y. Tunneling-machine	340,759	Apr. 27	2378	627	35	444
Brown, Fred. H., Fort Worth, Tex. Magneto-telephonic apparatus	341,370	May 4	558	154	35	605
Brown, George B., Red Oak, Iowa. Cornstalk-cutter attachment	349,566	Sept. 21	1411	365	36	1325
Brown, George E. (See Coombs, Thomas P., assignor.)						
Brown, George L., *et al.* (See Oberlander, Lorenz, assignor.)						
Brown, George T., Round Rock, Tex. Fastener for plow-points	353,119	Nov. 23	1938	519	37	845
Brown, George V. I., St. Paul, Minn. Dental bridge-work	337,812	Mar. 16	1254	325	34	1164
Brown, George W. (See Metzger and Brown.)						
Brown, George W., Galesburg, Ill. Cultivator	354,388	Dec. 14	1075	288	37	1210
Brown, George W., Galesburg, Ill. Cultivator	354,389	Dec. 14	1077	289	37	1211
Brown, George W., and J. E. Wilson, Dunlo, Pa. Car-coupling	338,135	Mar. 16	1696	441	34	1246
Brown, Gilman W., West Newbury, Mass. Signaling apparatus	347,319	Aug. 17	1176	315	36	699
Brown, Glenn, Washington, D. C. Garbage attachment for ranges or stoves	346,891	Aug. 10	560	150	36	576
Brown, Harold P., Chicago, Ill. Registering-valve for water-supply pipes	335,213	Feb. 2	185	50	34	473
Brown, Harold P., Chicago, Ill. Incandescent electric lighting apparatus	337,923	Mar. 16	1398	362 363	34	1190
Brown, Harold P., Chicago, Ill. Incandescent electric-light hanger	347,767	Aug. 24	1825	486	36	826
Brown, Harold P., Chicago, Ill. Arc and incandescent electric lighting	352,035	Nov. 2	444	120	37	542
Brown, Harold P. and F. H., Chicago, Ill. Artificial electric resistance	338,708	Mar. 30	2491	659	34	1401
Brown, Harold P. and F. H., Chicago, Ill. Artificial electrical resistance	347,766	Aug. 24	1825	486	36	825
Brown, Henry, Washington, D. C. Receptacle for storing and preserving papers	352,036	Nov. 2	445	120	37	542
Brown, Henry A., Toledo, Ohio. Bolt	350,231	Oct. 5	187	54	37	38
Brown, Henry H., Madison, Wis. Ankle-boot for horses	348,614	Sept. 7	114	32	36	1068
Brown, Heston & Co. (See Heston, David, assignor.)						
Brown, Hiram C., Winsted, Conn. Whiffletree-coupling	340,857	Apr. 27	2503	659	35	467
Brown, Hiram L., Chicago, Ill. Feed-bag	342,680	May 25	2389	633	35	972
Brown, Isaac P., Jr. (See Zimmerman, Charles P., assignor.)						
Brown, Isaac T., Columbus, Ind. Paper-box machine	345,363	July 13	781	197	36	146
Brown, Isaiah M. (See Phillips, Elwood C., assignor.)						
Brown, Israel F., New London, Conn. Cotton-gin	343,433	June 8	976	244	35	1191
Brown, James, Liverpool, county of Lancaster, assignor of two-thirds to T. A. Porter, Bootle, and J. Howard, Liverpool, England. Apparatus for climbing chimneys, &c	350,289	Oct. 5	255	74	37	53

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Brown, James A., Chester, S. C. Car-coupling	342,681	May 25	2390	633	35	972
Brown, James B., New York, N. Y. Plow	342,896	June 1	170	43	35	1036
Brown, James B., Shelbyville, Tenn. Cold-storage house	353,348	Nov. 30	2261	604	37	913
Brown, James C., San Francisco, Cal. Street-railway car	354,037	Dec. 7	561	152	37	1108
Brown, James F., Lansing, Mich. Ice-cream freezer	338,246	Mar. 23	1844	485	34	1292
Brown, James L., Brookville, Pa. Ventilating apparatus	337,368	Mar. 9	650	172	34	1053
Brown, James L., Brookville, Pa. Air-mixer for gas	353,843	Dec. 7	271	72	37	1056
Brown, James O. (See Free & Brown.)						
Brown, James O., and J. W. Free, Boston, Mass.; said Brown assignor to said Free. Machinery for making malt	351,491	Oct. 26	2013	523	37	386
Brown, James W., Paducah, Ky. Brick-machine	349,477	Sept. 21	1291	336	36	1301
Brown, Joel W. (See Bulman, Adam, assignor.)						
Brown, John. (See Hentschke and Brown.)						
Brown, John, Medford, Mass. Apparatus for dispensing soda-water	351,848	Nov. 2	176	47, 48	37	491
Brown, John, assignor to J. W. Tufts Medford, Mass. Sirup-gage	333,993	Jan. 12	680	186	34	136
Brown, John D. (See Geary, Morton W., assignor.)						
Brown, John F., *et al.* (See Slater, Jacob G., assignor.)						
Brown, John H., assignor of one-half to F. C. Schoenthaler, Chicago, Ill. Composition of matter to cool and reduce friction in bearings	343,943	June 15	1670	.....	35	1327
Brown, John N., New London, Conn. Adjustable pole-coupling for vehicles	346,144	July 27	1918	495	36	367
Brown, John W. (See Winnek and Brown.)						
Brown, Joseph C., Burlington, Vt. Machine for measuring and packaging seeds	354,094	Dec. 14	644	175	37	1133
Brown, Marie. (See Brown and Beaumel, assignors.)						
Brown, Martha E., Erie, Pa. Water-proof over-garment	343,698	June 15	1356	338	35	1265
Brown, Millard F., East Ringgold, Ohio. Door or safe lock	343,794	June 15	1488	374	35	1290
Brown, Morgan D., Forest, Ohio. Automatic railway-signal	345,412	July 13	855	213, 214	36	159
Brown, Oscar J., Madison, Wis. Riveting-machine	351,356	Oct. 26	1780	468, 469	37	344
Brown Paper Company, L. L. (See Barden, George F., assignor.)						
Brown, Paris C. (See Morris, William R., assignor.)						
Brown, Perry, Louisville, Ky. Freight-car door	335,989	Feb. 9	1269	336	34	674
Brown, Perry, Louisville, Ky. Lock	335,990	Feb. 9	1270	336	34	674
Brown, Peter C., and T. P. Bragg, Ennis, Tex. Sulky-plow	350,036	Sept. 28	2055	531	36	1454
Brown, R. W., administrator. (See Brown, Abner G.)						
Brown, Richard T., assignor to himself and W. Downing, Erie, Pa. Feeding-table for paper-folding machines	347,224	Aug. 10	1035	276	36	663
Brown, Robert. (See Hoover and Brown.)						
Brown, Robert, assignor to Hoover & Gamble, Miamisburg, Ohio. Harvester	343,002	June 1	309	80	35	1063
Brown, Robert, assignor of one-half to J. B. Gordon, Springfield, Mo. Let-off motion for looms	350,475	Oct. 12	531	148	37	106
Brown, Robert G., Brooklyn, assignor to Standard Multiplex Telegraph Company, New York, N. Y. Contact-finger for vibrating reeds	345,209	July 6	561	143	36	102
Brown, Robert G., Brooklyn, assignor to E. S. Greeley & Co., New York, N. Y. Insulator	353,120	Nov. 23	1939	520	37	846
Brown, Robert H. (See Johnson, Melvin L., assignor.)						
Brown, Robert T., Boston, assignor, by mesne assignments, to Clinton Wire Cloth Company, Clinton, Mass. Fastening wire lathing to iron frames of buildings. (Reissue)	10,684	Feb. 9	1395	369	34	697
Brown, Royal F., Chicago, Ill. Furnace	348,885	Sept. 7	471	124	36	1134
Brown, Samuel, Russellville, Ark. Refrigerator store-house for fruits and vegetables	346,189	July 27	1977	511	36	379
Brown, Samuel C. (See Hauck, Charles E., assignor.)						
Brown, Samuel E., assignor to Cleveland Hardware Company, Cleveland, Ohio. Roll for rolling toe-rails	335,268	Feb. 2	260	68	34	487
Brown, Samuel O., Greenwood, N. Y. Pegging-jack	353,200	Nov. 23	2062	550	37	870
Brown & Sharpe Manufacturing Company. (See Ernst, Victor H., assignor.)						
Brown & Sharpe Manufacturing Company. (See Phillips, Charles H., assignor.)						
Brown, Spencer H., New York, N. Y. Inhaler and respirator	349,687	Sept. 28	1566	406	36	1363
Brown, Thomas H., Milwaukee, Wis. Two-wheeled vehicle	339,615	Apr. 13	765	189	35	141
Brown, Thomas H., Milwaukee, Wis. Two-wheeled vehicle	341,447	May 11	664	179	35	635
Brown, Thomas J., Iola, assignor of two-thirds to D. A. Darbey, Darby, and J. B. Jameson, Iola, Tex. Cultivator and cotton-chopper	340,933	Apr. 27	2602	686	35	485
Brown, Thomas K., *et al* (See Taylor, Fitch, assignor.)						
Brown, Thomas R., and W. C. Meeker, Jersey City, N. J. Railway switch-stand	336,988	Mar. 2	138	38	34	951
Brown, Thomas S., Poughkeepsie, N. Y. Combined hay sweep and tedder	333,917	Jan. 5	571	155	34	107
Brown, Thomas S., Poughkeepsie, N. Y. Finger and finger-bar for harvesters	353,534	Nov. 30	2543	678	37	966
Brown, Timothy D., Oakland, Cal. Dust-pan	351,423	Oct. 26	1910	497	37	366
Brown, Walter F., Providence, R. I. Steam-engine indicator	347,088	Aug. 10	851	226	36	628
Brown, William, Halifax, county of York, England. Figured woven fabric	354,767	Dec. 21	1639	.....	37	1320
Brown, William, assignor of one-half to W. H. Pennel, Duncannon, Pa. Fire escape	335,108	Feb. 2	10	3	34	442
Brown, William, assignor to himself and J. McWilliams, Jersey City, N. J. Steam-engine	341,549	May 11	808	215, 216	35	662
Brown, William A., Ligonier, Ind. Folding bed	340,858	Apr. 27	2504	659	35	467
Brown, William H. (See Seymour, Frederick J., assignor.)						
Brown, William H., Dunedin, Fla. Pruning implement	336,694	Feb. 23	2306	603	34	871
Brown, William H., New York, N. Y., assignor to Brown's Seamless Metal Company, Jersey City, N. J. Joint for cylinders or cylindrical vessels	333,726	Jan. 5	319	87	34	60
Brown, William H., New York, N. Y., assignor to Brown's Seamless Metal Company, Jersey City, N. J. Manufacture of copper tubes	348,718	Sept. 7	252	67	36	1094
Brown, William H., New York, N. Y., assignor to Brown's Seamless Metal Company, Jersey City, N. J. Making ordnance	348,719	Sept. 7	253	68	36	1094
Brown, William H., Indianapolis, Ind., assignor to C. H. Sparks, Chicago, Ill. Door for jails or prisons	353,662	Dec. 7	11	4	37	1009
Brown, William H., and B. F. Haugh, Indianapolis, assignor to Haugh, Ketcham & Co. Iron Works, Haughville, Ind. Grating for jails	344,242	June 22	2101	537	35	1410
Brown, William J., Jr., Philadelphia, Pa. Machine for stitching books with metallic staples	354,885	Dec. 28	1797	474, 475, 476	37	1362
Brown, William L. (See Butler, Elmore, assignor.)						
Brown, William P. (See Shea and Brown.)						
Brown, William P., Zanesville, Ohio. Wheel-cultivator	345,111	July 6	432	111	36	79
Brown, William R. (See Pearson, Brown, and Price.)						
Brown, William S., Bayneville, Kans. Sliding gate	349,920	Sept. 28	1896	491	36	1425
Brown, William T. (See Mingle and Brown, assignors)						
Brown, William W., Manchester, N. H. Instrument for plumbing the corners of buildings	354,592	Dec. 21	1381	366	37	1271
Brown, Wilson, York, Pa. Railway-rail-joint chair	340,415	Apr. 20	1883	483	35	351

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Brown, Worthington, Chillicothe, Mo., assignor, by mesne assignments, to E. C. Felton, Chicago, Ill. Bustle	350,111	Oct. 5	21	6	37	7
Browne, Arthur W. (See Johnston and Browne.)						
Browne, Arthur W., Westfield, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental plugger	347,567	Aug. 17	1529	407	36	763
Browne, Elliot. (See Knapp and Browne.)						
Browne, Francis F., Hyde Park, Ill. Sash-fastener	345,273	July 13	659	168	36	125
Browne, Frank E., Los Angeles, Cal. Vermin-exterminator	338,629	Mar. 23	2366	623	34	1373
Browne, Frank E., Los Angeles, Cal. Vermin-exterminator	343,220	June 8	649	161	35	1133
Browne, Horace A., *et al.* (See Rahi, Adriau, Fils, assignor.)						
Browne, Joseph P., South Hadley, Mass. Paper-making machine	345,274	July 13	662	168	36	126
Browne, Oliver L. F., Syracuse, N. Y. Milk-strainer	350,110	Oct. 5	20	6	37	7
Browne, Walker G., assignor to United States Automatic Water Cut Off Company, Atlanta, Ga. Automatic cut-off for water-pipes	351,093	Oct. 19	1426	374	37	273
Browne, William H., Brooklyn, N. Y. Heater	344,812	July 6	13	3, 4	36	4
Browne, William J., Fort Madison, Iowa. Spring-cultivator	335,013	Jan. 26	2110	562	34	411
Browne, William J., Fort Madison, Iowa. Spring cultivator-beam lifter	340,551	Apr. 27	2082	537	35	394
Brownell, Benjamin C., Centre Junction, Iowa. Self-clearing breaking-plow colter	340,281	Apr. 20	1703	433	35	316
Brownell, Frederick B., St. Louis, Mo. Brake-handle for street-cars	350,525	Oct. 12	596	165	37	115
Brownell, Frederick G., assignor of one-half to T. S. Peck, Burlington, Vt. Packing for water-meters and piston-rods	343,003	June 1	310	80	35	1063
Brownell, Frederick G., assignor of one-half to T. S. Peck, Burlington, Vt. Car-axle lubricator	343,004	June 1	311	80, 81	35	1063
Brownell, Stephen C., assignor of one-half to G. H. Seelye and A. W. Annis, Lapeer, Mich. Sleigh-runner	333,918	Jan. 5	573	155	34	107
Brownell, William M. (See Hubbard and Brownell.)						
Browne, George, Althorp Road, Upper Tooting, county of Surrey, England. Preparation of extract of coca	339,262	Apr. 6	212	.....	35	40
Browning, John M. and M. S., Ogden City, Utah Ter. Magazine fire-arm	345,881	July 20	1549	400	36	290
Browning, John M. and M. S., Ogden City, Utah Ter., assignors to Winchester Repeating Arms Company, New Haven, Conn. Magazine fire-arm	336,287	Feb. 16	1740	455, 456	34	761
Browning, John M. and M. S., Ogden City, Utah Ter., assignors to Winchester Repeating Arms Company, New Haven, Conn. Magazine fire-arm	345,882	July 20	1553	401	36	291
Browning, John M. and M. S., Ogden City, Utah Ter., assignors to Winchester Repeating Arms Company, New Haven, Conn Breech-loading fire-arm	346,021	July 20	1753	451	36	327
Browning, Matthew S. (See Browning, John M. and M. S.)						
Brownridge, Robert, and P. Bond, Macclesfield, county of Chester, England. Loom	353,201	Nov. 23	2063	551	37	870
Brown's Seamless Metal Company. (See Brown, William H., assignor.)						
Brownson, Edward S., Brooklyn, N. Y. Distance-registering device for wheeled vehicles	336,989	Mar. 2	141	38, 39	34	951
Brownson, Herbert S., Portland, Me. Screw-driver	344,160	June 22	1988	508	35	1389
Brownson, Walter G., St. Louis, Mo. Blower	348,488	Aug. 31	2863	770	36	1027
Broyles, Frank. (See Hollingsworth and Broyles.)						
Broyles, James C., Tupelo, Miss. Breech-loading fire-arm	338,247	Mar. 23	1845	485	34	1282
Brubaker, John H., assignor to G. W. Ney, J. P. Reedy, and P. C. Breimier, Shamokin, Pa. Monument	335,991	Feb. 9	1271	337	34	674
Brubaker, Martin K., Mount Joy, Pa. Cider-machine	334,343	Jan. 12	1213	327	34	233
Bruce, Lucien F., Springfield, Mass., assignor to Gatling Gun Company, Hartford, Conn. Cartridge-charger for machine-gun feeders	341,371	May 4	561	155	35	606
Bruce, Lucien F., Springfield, Mass., assignor to Gatling Gun Company, Hartford, Conn. Cartridge-feeder for machine-guns	343,532	June 8	1110	280	35	1216
Bruce, Lucien F., Springfield, Mass., assignor to Gatling Gun Company, Hartford, Conn. Cartridge-feeder for machine-guns	351,960	Nov. 2	331	92	37	520
Bruce, Richard F. (See McCrum and Bruce.)						
Bruce, Thomas J., Whig Hill, Pa. Car-coupling	348,720	Sept. 7	254	68	36	1094
Bruce, William A. (See Stark, Theodore C., assignor.)						
Bruce, William M. (See Smith and Bruce.)						
Bruckart, Christian, Salunga, Pa. Animal-trap	344,939	July 6	197	50, 51	36	36
Bruckner, Franz J., New York, N. Y. Combined scroll-saw and lathe	336,208	Feb. 16	1621	423	34	741
Bruegger, Abraham, Jr., Chicago, Ill. Manufacture of rubber-lined and rubber-covered hose	334,510	Jan. 19	1447	389	34	281
Bruen, Edwin C., Brooklyn, N. Y. Pyrotechnic-throwing device	343,103	June 1	468	119	35	1091
Brueningsen, Fredrick, and E. Quinn, Hastings, Nebr. Fire-escape	334,741	Jan. 26	1764	470	34	348
Bruggemann, Henry L., and C. G. Orth, Cleveland, Ohio. Striking-clock	337,736	Mar. 9	1146	297	34	1138
Brüncker, Ewald, Siegbahr, near Troisdorf, Germany. Device for converting motion	346,397	July 27	2271	582	36	434
Brundage, Fred. A., Belmont, N. Y. Fruit-pail for gathering fruit	347,918	Aug. 24	2050	544	36	867
Bruner, Joseph A. (See Wiseheart, Jacob H., assignor.)						
Bruner, Preston M., St. Louis, Mo. Cable railway	345,616	July 13	1161	298	36	215
Brünler, Oscar, New York, N. Y. Apparatus for manufacturing aerated beverages	344,562	June 29	2548	658	35	1498
Brunson, Dan. (See Fenner and Brunson.)						
Brunswick, Balke, and Collender Company. (See Scheef, Charles, assignor.)						
Brunton, John D., Westminster, county of Middlesex, England. Apparatus for dressing stone	342,861	June 1	121	30	35	1028
Brush, A. P., Jr, *et al.* (See Nolen, Robert, assignor.)						
Brush, Alonzo L., Decatur, Ill. Machine for connecting wires	352,853	Nov. 16	1553	419	37	764
Brush, Charles F., Cleveland, Ohio. Electrical switch	335,269	Feb. 2	260	68	34	487
Brush, Charles F., Cleveland, Ohio. Armature for dynamo-electric machines	336,087	Feb. 16	1427	377	34	709
Brush, Charles F., Cleveland, Ohio. Secondary battery	337,298	Mar. 2	564	148, 149	34	1030
Brush, Charles F., Cleveland, Ohio. Secondary battery	337,299	Mar. 2	565	149	34	1030
Brush, Charles F., Cleveland, Ohio. Governor for electro-magnetic motors	343,886	June 15	1603	408	35	1313
Brush, Charles F., Cleveland, Ohio. Multiple-series cut-out	347,025	Aug. 10	750	200	36	611
Brush, Charles F., Cleveland, Ohio. Automatic electric-current regulator	351,961	Nov. 2	333	92, 93	37	520
Brush, George, Wakefield, assignor, by mesne assignments, of one-half to G. E. Scherer, Chapman, Kans. Churn	338,136	Mar. 16	1697	442	34	1246
Brüstle, Andrew, and A. Siegel, Hyde Park, Mass. Die for making joints of forceps, pinchers, &c	346,578	Aug. 3	162	44	36	491
Brüstle, Andrew, and A. Siegel, Hyde Park, Ill. Die for making axes	351,492	Oct. 26	2016	524	37	386
Bryan, James G., Lavallette, N. J. Valve for water-closet reservoirs	341,372	May 4	563	155	35	606
Bryan, Louis W., Quincy, Ill., assignor to himself and C. C. Lee, Palmyra, Mo. Valve-gear	346,190	July 27	1978	511	36	379
Bryan, St. George T., University of Virginia, Va. Separating precious metals from speiss	336,792	Feb. 23	2428	.....	34	894
Bryan, Walter S., assignor to himself and G. D. Johnson, Kosse, Tex. Baling-press	337,237	Mar. 2	473	124	34	1013
Bryant, Alexander. (See Fraleigh, Solomon, assignor.)						
Bryant, Alfred H., Covington, Ky. Brand-stamp	350,863	Oct. 12	1084	289	37	205

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Bryant, Charles F. (See Null, John C., assignor.)						
Bryant, Cyrus E. (See Collins, Eli A., assignor.)						
Bryant, Edson L., assignor of one-half to Wallace & Sons, Ansonia, Conn. Argand lamp	338,137	Mar. 16	1699	442	34	1246
Bryant, Edson L., assignor of one-half to Wallace & Sons, Ansonia, Conn. Lamp	340,416	Apr. 20	1884	484	35	351
Bryant, Edwin R., assignor to Rochester Machine Tool Works, (limited,) Rochester, N. Y. Section for steam-generators	343,104	June 1	468	119	35	1092
Bryant, Ellsworth S., A. W. Finlayson, and G. R. Couls, Detroit, Mich. Gas-making apparatus	340,282	Apr. 20	1704	434	35	316
Bryant, George B., Philadelphia, Pa. Gripper for cable railways	334,845	Jan. 26	1890	503, 504	34	372
Bryant, James T., Richmond, Va. Feed-water cleaner	350,910	Oct. 19	1146	305	37	223
Bryant, Reuben. (See Cavanaugh, Hugh P., assignor.)						
Bryant, Seymour J., Reno, Nev. Bureau	344,243	June 22	2102	537	35	1410
Bryant, William H., Clarksville, Tex. Hay-press	350,476	Oct. 12	532	149	37	106
Bryce Brothers, *et al.* (See Miller, John E., assignor.)						
Bryce Brothers, *et al.* (See Smith, Henry J., assignor.)						
Bryce-Douglas, Archibald D., Seafield, Ardrossan, county of Ayr, Scotland. Link-motion for engines	342,728	May 25	2467	653, 654	35	986
Bryce-Douglas, Archibald D., Seafield, Ardrossan, county of Ayr, Scotland. Link-motion for engines	345,617	July 13	1162	298	36	215
Bryce, Stephen T., Dayton, Ohio. Hot-air furnace. (Reissue)	10,747	July 27	2362	605	36	449
Bryden, John R., Georgetown, British Guiana. Sanitary apparatus	347,568	Aug. 17	1531	407	36	763
Bryson, Andrew, Jr., and H. S. Mudge, Brooklyn, N. Y. Automatic switch for pneumatic dispatch	353,400	Nov. 30	2345	626	37	929
Buch, Nelson C. (See Crossman and Buch.)						
Buchanan, Alexander F., Montrose, N. Y. Making stair and table oil-cloth	353,777	Dec. 7	171	.....	37	1039
Buchanan, Charles H., Philadelphia, Pa. Shoe	334,561	Jan. 19	1517	406	34	293
Buchanan, Charles H., Philadelphia, Pa. Manufacture of shoes and slippers	334,562	Jan. 19	1518	406	34	294
Buchanan, Charles H., Philadelphia, Pa. Hand-bag	338,475	Mar. 23	2160	564	34	1338
Buchanan, John N., Batavia, N. Y. Device for welding tubes	354,626	Dec. 21	1436	381	37	1280
Buchanan Manufacturing Company. (See Munson, Frank, assignor.)						
Buchanan, Robert, Sioux City, Iowa. Drum-tightener	355,057	Dec. 28	2010	536	37	1406
Bucher, Gibbs & Co. (See Gibbs, Lewis, assignor.)						
Bucher, John W., *et al.* (See McLain, James W., assignor.)						
Bucheit, Charles J., and T. L. Popp, Buffalo, N. Y. Type-writing machine	348,511	Aug. 31	2896	779	36	1033
Bucheit, John, assignor of one-half to M. Haseman, St. Louis, Mo. Bottle-washing brush	335,052	Jan. 26	2170	577	34	421
Buchholz, August, South Bend, Ind. Fifth-wheel	340,693	Apr. 27	2284	602	35	427
Buchholz, Edward, Philadelphia, Pa. Shawl and bundle carrier	347,415	Aug. 17	1309	349	36	722
Buchholz, Hermann, assignor of one-half to H. Miller, Pittsburg, Pa. Clamp for jars	339,083	Mar. 30	3032	801	34	1495
Buchholz, John, Grove City, Ohio. Cheese-knife	352,441	Nov. 9	1012	273	37	655
Buchtel, Joseph. (See Symes and Buchtel.)						
Buchten, Adolph, assignor of one-half to C. Husband, San Francisco, Cal. Composition for removing ink	342,279	May 18	1793	.....	35	857
Buck, Christian, Fleming, Pa. Combined handle and holder for brushes	338,476	Mar. 23	2161	565	34	1338
Buck, Frank R., New York, N. Y. Sample show-box	339,263	Apr. 6	214	54	35	40
Buck, Henry A., assignor to E. L. Motte, Boston, Mass., and J. M. Kay, St. John, New Brunswick, Canada, trustees. Apparatus for operating railway danger-signals	333,919	Jan. 5	574	155, 156	34	108
Buck, Horatio B., *et al.* (See Connett, Matthew F., Jr., assignor.)						
Buck, James E. (See Kistler and Buck.)						
Buck, Joseph, Croton, Mich. Feed-cutter	342,859	June 1	114	29	35	1027
Buck, Julius W., assignor of one-half to R. L. Morford, Greenville, Pa. Rail-joint	341,829	May 11	1182	316	35	737
Buck, William, Kilburn, county of Middlesex, England. Automatic circuit-closer for railway-signals	350,411	Oct. 5	403	115	37	80
Buckelew, Charles H., Plainfield, N. J. Submarine tunnel	349,301	Sept. 21	1035	265	36	1252
Buckeye Engine Company. (See Barnaby, Charles W., assignor.)						
Buckeye Engine Company. (See Hunt, Nathan, assignor.)						
Buckeye Iron and Brass Works. (See Kruttsch, William, assignor.)						
Buckingham, Alexander H., New Haven, Conn., and A. G. Hohenstein, New York, N. Y.; said Hohenstein assignor to said Buckingham. Horse-hitching device	340,905	Apr. 27	2566	676	35	478
Buckingham, Charles L., New York, N. Y. Printing-telegraph	350,615	Oct. 12	726	197	37	140
Buckingham, Charles L., New York, N. Y. Printing-telegraph	350,616	Oct. 12	729	198	37	140
Buckingham, Charles L., New York, N. Y. Printing-telegraph transmitter	350,617	Oct. 12	733	198	37	141
Buckingham, Hiram, Hartford, Conn. Inner sole for boots or shoes	351,849	Nov. 2	177	48	37	491
Buckingham, John E., Washington, D. C. Door-securer	349,688	Sept. 28	1567	406	36	1363
Buckingham, Joseph P., New York, N. Y. Mailing-tube	347,416	Aug. 17	1316	350	36	722
Buckingham, Joseph P., Brooklyn, N. Y. Collapsible toy horse	347,682	Aug. 17	1709	456	36	796
Buckland, Thomas A., St. Louis, Mo. Locomotive-furnace	334,689	Jan. 19	1691	452	34	326
Buckland, Thomas A., St. Louis, Mo. Locomotive-furnace	347,683	Aug. 17	1710	456	36	797
Buckle, Charles, San Antonio, Tex. Two-wheeled vehicle	341,830	May 11	1183	316	35	737
Buckley, Francis, *et al.* (See Smith, James E., assignor.)						
Buckley, George W. (See Nutt, Jasper N., assignor.)						
Buckley, Jeremiah M., Sioux City, Iowa. Spark-arrester	349,337	Sept. 21	1074	276	36	1260
Buckley, Oliver H., Deering, Me. Hammock-spreader	341,793	May 11	1132	299	35	736
Buckley, William, Sheffield, county of York, England. Metallic spring	345,767	July 20	1400	363	36	264
Buckley, William F., assignor of two-thirds to L. E. Holden and E. H. Cowles, Cleveland, Ohio. Electric-arc light	337,737	Mar. 9	1148	298	34	1138
Buckley, William N., Meriden, Conn. Curtain-fixture	343,160	June 8	562	142	35	1117
Bucyrus Foundry and Manufacturing Company. (See Thompson, John, assignor.)						
Budd, J. Talmon, Buffalo, N. Y. Suspenders	339,968	Apr. 13	1944	310	35	228
Budd, J. Talmon, Buffalo, N. Y. Suspenders	352,969	Nov. 23	1718	461	37	803
Budd, J. Talmon, Buffalo, N. Y. Attachment for suspenders	355,133	Dec. 28	2150	566	37	1428
Budd, J. Talmon, Buffalo, N. Y. Attachment for suspenders	355,134	Dec. 28	2152	566	37	1428
Budd, William E., Chatham, N. J., assignor of one-third to F. Hussey, New York, N. Y. Sulky-plow	346,801	Aug. 3	427	117	36	543
Budde, Bernhard. (See Tollmar, Johann F. A., assignor.)						
Buddenberg, Henry C., Cincinnati, Ohio. Sanitary catch-basin	340,694	Apr. 27	2285	602	35	427
Budlong, J. Jerome. (See La Dow, Budlong, and Hoyt.)						
Buechner, C. W. (See Wulff, Adolph, assignor.)						
Buel, Arthur, New York, N. Y. Drier	343,755	June 15	1445	360, 361	35	1282
Buell, Charles E., Springfield, Mass. Apparatus for conveying parcels or grain by atmospheric pressure	338,138	Mar. 16	1700	442, 443	34	1246
Buell, Charles E., New Haven, Conn. Electric incandescent lamp	344,343	June 29	2241	577	35	1442
Buell, Charles E., New Haven, Conn. Electric illumination	344,344	June 29	2242	577	35	1443

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Buell, Charles E., New Haven, Conn. Storing and utilizing electricity on vehicles	347,768	Aug. 24	1827	486, 487	36	826
Buell, Charles E., New Haven, Conn. Electric lighting of railway-trains	353,248	Nov. 23	2119	567, 568	37	881
Buell, Charles E., New Haven, Conn. Electric lighting of railway-trains	353,349	Nov. 30	2262	605	37	913
Buerkel, John F. (See Johnson and Buerkel.)						
Buermann, August, Newark, N. J. Bridle-bit	347,225	Aug. 10	1636	276	36	663
Buffham, George R., Port Chester, N. Y. Ventilator	349,782	Sept. 28	1721	444	36	1390
Buffington, John W., Goodnight, Mo. Check-rower and corn-planter	334,846	Jan. 26	1892	504	34	372
Buflum, Curtis W., Pittsburg, Pa. Bottle-stopper	350,801	Oct. 12	995	266	37	188
Buflum, Fred T., Providence, R. I. Slide for sword-belts	334,101	Jan. 12	845	231	34	164
Bugbee, George W., and F. Danner, assignors to Egan Company, Cincinnati, Ohio. Blind-slat-tenoning machine	336,835	Feb. 23	2484	653	34	904
Bugbee, George W., and F. Danner, assignors to Egan Company, Cincinnati, Ohio. Saw-set	338,161	Mar. 16	1729	451	34	1252
Bugbee, Truman G., Chicago, Ill. Extension-table slide	352,114	Nov. 9	569	151	37	572
Buhler, M. (See Baird, Andrew J., assignor.)						
Buhrer, Casper, Cambridge City, Ind. Safety frog and switch	336,549	Feb. 23	2094	551	34	832
Buhrer, Casper, Cambridge City, Ind. Automatic rail-frog and switch	352,078	Nov. 2	503	135	37	553
Buhrer, Casper, Cambridge City, Ind. Automatic continuous rail-frog and switch	352,079	Nov. 2	505	136	37	554
Bührer, Jacob, Konstanz, Baden, Germany, assignor of one-half to F. B., H. T., and B. F. Van De Velde, Cleveland, Ohio. Root-fertilizer	349,874	Sept. 28	1843	476	36	1415
Buick, David D., Detroit, Mich. Ball-valve	338,477	Mar. 23	2162	565	34	1338
Bujac, James, Catonsville, Md. Grate for burning coal-dust	346,086	July 27	1833	473	36	351
Bulen, George F., assignor to Automatic Fire Alarm and Extinguisher Company, New York, N. Y. Thermostat	352,442	Nov. 9	1012	273	37	655
Bulger, Peter, Shaner Station, Pa. Washing-machine	352,443	Nov. 9	1014	273, 274	37	656
Bull, George, and W. J. Vizey, assignors to themselves and J. D. Pryor, Winfield, Kans. Curtain-fixture	351,308	Oct. 19	1713	450	37	326
Bull, Henry, Basle, Switzerland, and C. L. Müller, Ludwigshafen-on-the-Rhine, assignors to Badische Anilin and Soda Fabrik, Mannheim, Germany. Sulphonated purple dye-stuff from benzylidiphenylimine	346,022	July 20	1754	.....	36	327
Bull, Richard H. (See Hall, Hayden H., assignor.)						
Bull, Richard H. (See Hall and Bull.)						
Bull, Richard H., New York, and H. H. Hall, New Hamburg, N. Y. Constructing water-works	344,813	July 6	14	4	36	5
Bull, William S. (See Bowen, Ephraim N., assignor.)						
Bullard, Alfis F., and G. A. Lamoaid, St. Albans, Vt. Coal-sifter	338,582	Mar. 23	2299	602	34	1361
Bullard, Charles W., Chicago, Ill. Door-hanger	334,344	Jan. 12	1216	328	34	233
Bullard, Charles W., Chicago, Ill. Door-bell	347,226	Aug. 10	1037	276, 277	36	664
Bullard, Charles W., Chicago, Ill. Latch	352,515	Nov. 16	1102	298	37	680
Bullard, David C., Elberton, Ga. Planter and manure-distributer	345,210	July 6	562	144	36	102
Bullard, Isaac, Hyde Park, Mass. Piano-action	334,511	Jan. 19	1448	389	34	282
Bullard, James H., Springfield, Mass. Tennis-court marker	339,141	Apr. 6	30	9	35	8
Bullard, James H., assignor to C. P. Fay, Springfield, Mass. Calipers	335,740	Feb. 9	923	243	34	613
Bullard, James H., Springfield, assignor of one-half to A. W. Page, Chicopee Falls, Mass. Machine for bending the ends of knitting-machine needles	348,151	Aug. 24	2376	637, 638	36	928
Bullard, John F., Swanton, Vt. Railway-switch	339,969	Apr. 13	1245	310, 311	35	228
Bullard, William P., assignor to Fuller Manufacturing Company, New York, N. Y. Bit-brace	347,417	Aug. 17	1311	350	36	723
Bullis, George W. (See Krehbiel, John, assignor.)						
Bullock, Chester, Kansas City, Mo. Ring for cable-coverings	335,679	Feb. 9	826	220	34	595
Bullock, Chester, assignor of one-half to R. Gillham, Kansas City, Mo. Double-track cable or electric road	335,560	Feb. 9	662	174	34	566
Bullock, De Forest, Sumner, Wash. Ter. Vegetable-cutter	335,500	Feb. 2	571	149	34	543
Bullock, George, *et al.* (See Bold, Fred, assignor.)						
Bullock, Henry P., and H. P. Cayce, Jonesborough, Tex. Gate	352,080	Nov. 2	507	136	37	554
Bullock, John S., *et al.* (See Conway, Jesse, assignor.)						
Bullock, Joseph P., assignor to Dennett Harvesting Machine Company, (limited,) and Milwaukee Harvester Company, Milwaukee, Wis. Grain-binder	339,142	Apr. 6	31	9, 10, 11	35	8
Bullock, Joseph P., assignor of two-thirds to Dennett Harvesting Machine Company, (limited,) Milwaukee, Wis. Grain-binder	339,523	Apr. 6	501	143	35	109
Bullock, Joseph P., assignor to Milwaukee Harvester Company, Milwaukee, Wis. Raising and lowering device for harvesters	354,825	Dec. 21	1711	453	37	1333
Bullock, Marie D., Philadelphia, Pa. Game	346,892	Aug. 10	561	151	36	577
Bulman, Adam, assignor to himself and J. W. Brown, Jersey City, N. J. Device for centering vessels in dry docks	334,563	Jan. 19	1520	406	34	294
Bumgarner, George W., Baltimore, Md. Shut-off cock	346,462	Aug. 3	15	4	36	463
Bunce, Lewis D., assignor to himself, C. F. Decker, and C. M. Donelson, Salt Lake City, Utah Ter. Churn	337,238	Mar. 2	475	124, 125	34	1013
Bunce, Thomas A., Berlin, Conn. Folding table	346,145	July 27	1919	495	36	368
Bunce, William, Oberlin, Ohio. Fracture apparatus	350,526	Oct. 12	597	165	37	116
Bunch, Elijah, Richmond, Ind. Wire-twister	353,535	Nov. 30	2545	678	37	967
Bunch, Elijah, Richmond, Ind. Wire-stretcher	355,135	Dec. 28	2154	566	37	1429
Bunch, Henry, Garrettsville, Ohio. Button-fastener	337,738	Mar. 9	1149	298	34	1139
Bunch, John W., assignor to himself and S. Irwin, Keokuk, Iowa. Wagon-seat	355,058	Dec. 28	2041	536	37	1406
Bunch, William E., Nebo, Ark. Fence	347,865	Aug. 24	1966	522	36	853
Bundell, Jesse G. (See Hartz, Albert, assignor.)						
Bunker, Le Roy S., Valton, Wis. Boiler for steaming food	351,094	Oct. 19	1427	374	37	273
Bunker, William I., Chicago, Ill. Attachment for rocking-chairs	334,102	Jan. 12	846	232	34	164
Bunker, William I., Chicago, Ill. Attachment for rocking-chairs	334,345	Jan. 12	1218	328	34	234
Bunker, William I., Chicago, Ill. Attachment for rocking-chairs	334,346	Jan. 12	1219	328	34	234
Bunker, William I., Chicago, Ill. Attachment for rocking-chairs	341,448	May 11	665	179, 180	35	633
Bunker, William I., assignor to Rocker Spring Company, Chicago, Ill. Rocking-chair attachment	354,038	Dec. 7	562	153	37	1108
Bunker, William I., assignor to Rocker Spring Company, Chicago, Ill. Rocking-chair spring	354,039	Dec. 7	564	153	37	1108
Bunker, William I., assignor to Rocker Spring Company, Chicago, Ill. Attachment for rocking-chairs	354,040	Dec. 7	564	153	37	1108

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drwg.	Official Gazette. Vol.	Official Gazette. Page.
Bunn, Simeon, Belleville, Ill. Nail-plate furnace	334,216	Jan. 12	1027	273	34	199
Bunnell, George W. (See Wilcox and Bunnell.)						
Bunnell, Joseph A. (See Robb, James T., assignor.)						
Bunnell, Joseph A., New York, N. Y. Cutting or severing device	355,136	Dec. 28	2154	567	37	1429
Bunting, William, Jr., Boston, Mass., assignor to Meyer-Sniffen Company, (limited,) New York, N. Y. Combined valve and overflow-pipe for bath-tubs, wash-basins, sinks, &c	347,684	Aug. 17	1711	457	36	797
Bunton, William A., *et al.* (See Houlehan, James, assignor.)						
Bunton, William A., trustee. (See Mooers, Henry C., assignor.)						
Buob, Louis, Jr., and W. Jochum, assignors to Cincinnati Neck Yoke Company, Cincinnati, Ohio. Neck-yoke	346,802	Aug. 3	429	118	36	544
Burbank, Charles O., Waltham, Mass. Anchor	335,561	Feb. 9	663	175	34	566
Burbank, Edward S., Dow City, Iowa. Velocipede	352,989	Nov. 23	1748	469	37	809
Burch, George C., assignor of one-half to R. S. Edgcomb, Groton, Conn. Whiffletree-plate	354,851	Dec. 21	1740	461	37	1339
Burch, Jonathan J., and J. B. Scovill, Carthage, Mo. Pump-valve	334,105	Jan. 12	850	234	34	165
Burchell, Eldridge J., La Fargeville, N. Y. Cement for roofing, &c	339,970	Apr. 13	1246	.....	35	228
Burchfield, David C., Ashland, Pa. Carpet-stretcher	345,211	July 6	563	144	36	102
Burckas, Hugo, Leipsic, Saxony, Germany. Mechanical musical instrument	343,795	June 15	1489	374 / 375	35	1291
Burckett, Charles H., Brooklyn, N. Y. Manufacture of horseshoe-nails	343,295	June 8	765	191	35	1154
Burd, Simeon, Bradenville, Pa. Auger	350,657	Oct. 12	793	215	37	151
Burden, Fredrick C. (See Burden, William H. and F. C.)						
Burden, James A., Troy, N. Y. Buckboard-wagon	344,895	July 6	142	35, 36	36	26
Burden, William H. and F. C., Cleveland, Ohio. Coffee or tea pot strainer	352,516	Nov. 16	1103	298	37	680
Burdess, Adam, Coventry, county of Warwick, England, assignor to Pope Manufacturing Company, Hartford, Conn. Velocipede	355,253	Dec. 28	2328	612 / 613	37	1464
Burdett, Daniel B., Minneapolis, Minn. Fertilizer-distributer	354,533	Dec. 21	1288	343	37	1255
Burdick, Hiram M., Ilion, N. Y. Horse hay-rake	339,971	Apr. 13	1246	311	35	228
Burdick, James T., Friendship, N. Y. Wagon	346,398	July 27	2272	582 / 583	36	435
Burdick, John R., Chicago, Ill. Electrical conduit	342,280	May 18	1794	475	35	857
Burdick Manufacturing Company, H. N. (See White, George, assignor.)						
Burdick, Norman, Albany, N. Y. Forming hinges in cast-metal plates	351,041	Oct. 19	1355	356	37	260
Burdict, Orrin C., assignor to Plumb, Burdict & Barnard, Buffalo, N. Y. Screw-threading machine	349,083	Sept. 14	752	191 / 192	36	1188
Burdsall, Stephen, assignor to Herbrand Company, Fremont, Ohio. Running-gear for vehicles	343,296	June 8	766	191	35	1154
Burfee, Augustus R. (See Sanders, George A., assignor.)						
Burgans, Charles E., Oakland, Cal. Trigger attachment for double guns	344,896	July 6	143	36	36	26
Burger, Maurice K., New York, N. Y. Necktie	340,478	Apr. 20	1970	507	35	366
Burgess, Alexander. (See Marchant, William M., assignor.)						
Burgess, Andrew, Owego, N. Y. Magazine-gun	337,239	Mar. 2	476	125	34	1013
Burgess, Andrew, Owego, N. Y. Magazine-gun	340,479	Apr. 20	1971	507	35	366
Burgess, Charles M., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Sash-fastening device	338,337	Mar. 23	1965	517	34	1303
Burgess, Charles M., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Drawer-pull	346,463	Aug. 3	16	5	36	463
Burgess, Curtis L., Woodhull, Ill. Automatic grain weighing and registering apparatus	350,658	Oct. 12	794	216	37	151
Burgess, Edward A. (See Rathbun and Burgess.)						
Burgess, Edward C., Philadelphia, Pa. Apparatus for burning hydrocarbon oils	346,464	Aug. 3	17	5	36	463
Burgess, Edward T., Meriden, Conn. Wheel	334,163	Jan. 12	941	254	34	181
Burgess, Eli M., Leesburg, Ohio. Clipping-machine	347,263	Aug. 10	1085	290	36	672
Burgess, George W., Boston, Mass. Clock striking mechanism	352,180	Nov. 9	683	182	37	591
Burgess, Harry A., Boston, Mass. Inkstand	346,263	July 27	2087	537	36	400
Burgess, Hugh, Ardmore, Pa. Manufacture of glass, cement, &c	339,524	Apr. 6	592	.....	35	109
Burgess, Hugh, Ardmore, and S. H. Egolf, Spring City, Pa. Manufacture of glass, cement, ceramic ware, &c	339,525	Apr. 6	593	.....	35	109
Burgess, Ira J. (See Strader, Gray, and Burgess.)						
Burgess, John, Manchester, county of Lancaster, England. Buckle	348,186	Aug. 31	2445	656 / 657	36	946
Burgess, William V., Sterling, Kans. Washing-machine	348,543	Sept. 7	4	1	36	1049
Burk, Frank W., assignor of three-fourths to W. H. Hebberd and C. M. Sawyer, New York, N. Y. Carbureting compound	346,803	Aug. 3	430	.....	36	544
Burk, Leander, deceased. White Cloud; C. B. Wilcox, Newaygo County, Mich., administrator. Cultivator-tooth	336,508	Feb. 16	2031	533	34	815
Burk, Marshall B., Prescott, assignor of one-half to G. B. Baker, Dayton, Washington Ter. Window	352,181	Nov. 9	684	183	37	591
Burkart, August, assignor to himself and F. G. Dutoit, Berne, Switzerland. Ash-pit for stoves	346,804	Aug. 3	430	118	36	544
Burke, Augustus W., *et al.* (See Rogers, William, assignor.)						
Burke, Edmund V. (See Swan, T. Bryant, assignor.)						
Burke, John, Newburyport, Mass. Carriage	335,741	Feb. 9	924	243	34	613
Burke, John Y. (See Brewster and Burke.)						
Burke, Oscar F., Waverly, N. Y. Egg-preserving cabinet	354,826	Dec. 21	1713	454	37	1334
Burkert, John M., Atlanta, Ga. Sash-fastening device	337,369	Mar. 9	652	172	34	1053
Burkhard, John P., St. Paul, Minn. Toboggan	349,269	Sept. 14	1001	255	36	1236
Burkhard, Thomas, Brooklyn, N. Y. Mixing and heating and cooling kettle for candy, &c	338,583	Mar. 23	2300	602	34	1361
Burkhard, Thomas, Brooklyn, N. Y. Metallic vessel for domestic purposes	341,794	May 11	1133	299	35	726
Burkhard, Thomas, Brooklyn, N. Y. Cooking-kettle for candy and other substances	349,084	Sept. 14	754	192	36	1188
Burkhard, Thomas, Brooklyn, N. Y. Candy-kettle	352,642	Nov. 16	1274	344	37	710
Burkhard, Thomas, Jr., assignor of one-half to T. Burkhard, Sr., Brooklyn, N. Y. Apparatus for cooling or heating candy	337,303	Mar. 2	570	150	34	1031
Burkhardt, Edward. (See Cardona, Joseph, assignor.)						
Burkhardt, Richard P., Dayton, Ohio. Chair-seat	340,029	Apr. 13	1333	333	35	243
Burkhart, Ferdinand, St. Louis, Mo. Pad for horse-collars	341,992	May 18	1397	373	35	783
Burkholder, Isaac, Farmersville, Pa. Gate	336,288	Feb. 16	1745	456 / 457	34	762
Burkholder, William H., Thedford, Ontario, Canada. Car-coupling	354,041	Dec. 7	565	154	37	1109
Burkley, Martin, Moline, Ill. Steam-engine	333,920	Jan. 5	577	156	34	108
Burleigh, Joseph A. (See Pepper and Davis, assignors.)						
Burleigh, Robert G., Glasgow, Scotland. Tubular cutter-lathe	342,822	June 1	67	16, 17	35	1018
Burley, George J., and A. F. McGlashan, Buffalo, N. Y. Lock for freight-car doors	340,934	Apr. 27	2604	686	35	485
Burlingame, Simon D., Berrien Springs, Mich. Hot-air furnace	336,033	Feb. 9	1329	352	34	685

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Burman, William. (See Phipps and Burman.)						
Burmester, Heinrich F., Chicago, Ill. Extension-table	333,501	Jan. 5	7	3	34	4
Burmester, Heinrich F., Chicago, Ill. Extension-table	334,103	Jan. 12	847	232, 233	34	164
Burmester, Heinrich F., Chicago, Ill. Extension-table	334,104	Jan. 12	849	233, 234	34	165
Burn & Robinson Manufacturing Company. (See O'Neill, John, assignor.)						
Burnap, Gains C., *et al.* (See Leake, Albert Y., assignor.)						
Burnap, George S., *et al.* (See Leake, Albert Y., assignor.)						
Burnap, George S., Marietta, Ga. Cleaner for bolting-reel cloths	338,630	Mar. 23	2367	623	34	1373
Burnap, Hiram F. (See Andrews and Burnap.)						
Burnaugh, Joseph J., Libertyville, Iowa. Hay-stacking machine	344,030	June 22	1801	464	35	1356
Burner, Henry R., and J. C. Anderson, Newark, Ohio. Fruit-drier	340,480	Apr. 20	1972	507	35	367
Burnet, Jacob, Jr., Cincinnati, Ohio. Wick-carrier	347,929	Aug. 24	2153	573	36	886
Burnett, Cuthbert, Hartlepool, county of Durham, England. Mining wedge or tool for breaking up coal, &c.	351,850	Nov. 2	178	48, 49	37	491
Burnett, Isaac, and E. Folliott, Joliet, Ill. Slip-rail frog for railways	349,689	Sept. 28	1568	406, 407	36	1363
Burnett, John, and G. Eichert, Cincinnati, Ohio. Hydrant	341,403	May 4	607	166	35	615
Burnette, Eliphaz C., and W. H. Porter, Parsons, Kans. Portable hay-press	335,053	Jan. 26	2171	577	34	421
Burnham, Arthur M., Gardiner, Me. Shutter-operator	343,297	June 8	767	192	35	1154
Burnham, Byron C. (See Guild and Burnham.)						
Burnham, Charles E., White Plains, N. Y. Clock mechanism for operating gas-cocks	346,399	July 27	2273	583	36	435
Burnham, George W., Lincoln, assignor to Easton & Burnham, Pawtucket, R. I. Machine for winding yarn on bobbins	338,631	Mar. 23	2369	623	34	1374
Burnham, James S., Jersey City, N. J. Heat-regulating device	336,088	Feb. 16	1428	377	34	709
Burnham, John P., Chicago, Ill. Boring-machine	354,179	Dec. 14	783	209	37	1156
Burnham, Lewis T., Hyde Park, Ill. Grate	344,766	June 29	2809	727	35	1547
Burnham, Nathan F., York, Pa. Governor for steam-engines	336,836	Feb. 23	2486	653, 654	34	904
Burnham, Nathan F., York, Pa. Steam-engine	336,837	Feb. 23	2488	654, 655	34	905
Burnham, Nathan F., York, Pa. Lubricating steam-engines	336,838	Feb. 23	2491	655	34	905
Burnley, William, assignor of two-thirds to C. A. Hitchcock, North East, and L. F. Watson, Warren, Pa. Telephone-transmitter	335,501	Feb. 2	572	149, 150	34	543
Burnley, William, assignor of two-thirds to C. A. Hitchcock, North East, and L. F. Watson, Warren, Pa. Telephone-transmitter	335,502	Feb. 2	574	150	34	543
Burnley, William, assignor of two-thirds to C. A. Hitchcock, North East, and L. F. Watson, Warren, Pa. Telephone-transmitter	353,536	Nov. 30	2545	678	37	967
Burns, Charles M., Jr., Philadelphia, Pa. Drawing-pen	333,594	Jan. 5	132	36	34	27
Burns, Jabez, Brooklyn, N. Y. Grinding-mill	349,628	Sept. 21	1488	385	36	1341
Burns, John, Chicago, Ill. Paper egg-carrier	353,537	Nov. 30	2546	678	37	967
Burns, John B., Indianapolis, Ind., assignor of one-half to E. D. Eames, Watertown, N. Y. Automatic brake-adjuster	352,444	Nov. 9	1016	274	37	656
Burns, Joseph, Montezuma, Ind. Fence-post	336,889	Mar. 2	7	2	34	928
Burns, Joseph, Montezuma, Ind. Fence-post	349,142	Sept. 14	834	212	36	1204
Burns, Joseph H., Cleveland, Ohio. Toy	341,831	May 11	1185	317	35	737
Burns, Robert, assignor of one-half to E. S. Skinner, Chicago, Ill. Non-conducting pipe-covering	348,187	Aug. 31	2445	657	36	946
Burns, Thomas, A. Akeroyd, and J. Fowler, Bradford, England. Warp-beam for looms	353,538	Nov. 30	2546	679	37	967
Burns, William H., St. Louis, Mo. Propelling and steering vessels	338,162	Mar. 16	1731	451	34	1252
Burpee, Thomas B. C., Philadelphia, Pa. Coffee-roaster	334,742	Jan. 26	1765	470	34	348
Burr, Charles A., Rockdale, N. Y. Vehicle-brake	352,115	Nov. 9	569	151	37	572
Burrall, William D., *et al.* (See De Zeng, Henry L., assignor.)						
Burrell, David H. (See Evans, Jonathan, assignor.)						
Burrell, David H. (See Naylor, James, Jr., assignor.)						
Burrell, David H. (See Sedgwick and Naylor, assignors.)						
Burrell, David H., *et al.* (See Koelkebeck, Carl W. A., assignor.)						
Burridge, Lee S. (See Dawson, John F., assignor.)						
Burris, Samuel C., Victoria, British Columbia, Canada. Construction of buildings	346,638	Aug. 3	242	66	36	507
Burris, Samuel C., Victoria, British Columbia, Canada. Molding-machine	353,285	Nov. 30	2175	582, 583	37	898
Burritt, Edmund, *et al.* (See Warren, John, assignor.)						
Burrows, Asa W., Chicago, Ill. Ear-mark for animals	350,112	Oct. 5	22	6	37	7
Burrows, Calvin A., assignor of one-half to G. W. Sheardown, Plainfield, Wis. Table	342,281	May 18	1795	476	35	857
Burrows, Francis O., Cleveland, Ohio. Steam-boiler	348,315	Aug. 31	2621	706	36	981
Burrows, Joseph M., Hawkinsville, Ga. Plow	334,106	Jan. 12	851	234	34	165
Burrows, William, Brooklyn, N. Y. Manger	336,209	Feb. 16	1623	423	34	742
Burrows, William, Brooklyn, N. Y. Pull for water-closet cisterns, &c.	353,844	Dec. 7	272	72	37	1056
Burson, Joseph. (See Beckwith and Burson.)						
Burson, William W., Chicago, Ill. Low-level self-binding harvester	347,769	Aug. 24	1829	487, 488	36	827
Burt, Charles E. (See Cook and Burt.)						
Burt, John. (See Shuttleworth, Tom L., assignor.)						
Burt, Townsend W., Mineola, N. Y. Cable-tension device	338,387	Mar. 23	2041	536	34	1316
Burt, Townsend W., Mineola, N. Y. Automatic setting apparatus	338,824	Mar. 30	2659	700	34	1431
Burt, Townsend W., Mineola, N. Y. Automatic block-signaling apparatus	342,860	June 1	115	29, 30	35	1027
Burt, Townsend W., Mineola, N. Y. Automatic block-signaling apparatus	346,893	Aug. 10	562	151	36	577
Burton, Charles C., Utica, N. Y. Injector and extractor	338,710	Mar. 30	2494	660	34	1402
Burton, Charles C., Utica, N. Y. Fluid-gate	338,711	Mar. 30	2496	660	34	1402
Burton, Charles F., *et al.* (See Tomlinson, James, assignor.)						
Burton, Charles F., assignor of one-half to R. A. Parker, Detroit, Mich. Store-service apparatus	344,244	June 22	2102	538	35	1410
Burton, George D., New Ipswich, N. H. Stock-car	335,109	Feb. 2	12	4	34	443
Burton, George D., New Ipswich, N. H. Stock-car	337,240	Mar. 2	478	126	34	1014
Burton, George D., New Ipswich, N. H. Anti-friction bearing	338,657	Mar. 23	2402	632	34	1379
Burton, George D., New Ipswich, N. H. Electrical coupler	343,515	June 8	1091	274	35	1212
Burton, George D., New Ipswich, N. H. Electrical connection and guard therefor	346,423	July 27	2309	595	36	441
Burton, George D., New Ipswich, N. H. Stock-car	348,886	Sept. 7	472	125	36	1134
Burton, George D., New Ipswich, N. H. Baby-carriage	349,629	Sept. 21	1489	385, 386	36	1341
Burton, George D., New Ipswich, N. H. Railway-signal	354,460	Dec. 14	1174	314, 315	37	1228
Burton, George D., New Ipswich, N. H. Railway-signal	354,827	Dec. 21	1715	454	37	1334

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Burton, George D., Boston, Mass. Necktie-fastener	340,481	Apr. 20	1974	507 / 508	35	367
Burton, George D., Boston, Mass. Electrical connection	341,128	May 4	215	65	35	545
Burton, George W. (See Le Grande and Burton.)						
Burton, Henry, assignor of one-half to J. Burton, Port Huron, Mich. Cut-off valve	337,739	Mar. 9	1150	298	34	1139
Burton, James. (See Burton, Henry, assignor.)						
Burton, John, London, England. Notation-slip for finger-board instruments	346,424	July 27	2310	595	36	441
Burton, William K. (See Lawson and Burton.)						
Burwell, Samuel W., Port Huron, Mich. Hair-clipper	336,890	Mar. 2	9	3	34	928
Burwell, Stephen B., Cincinnati, Ohio. Attachment for fire-places	333,921	Jan. 5	579	156	34	108
Burwell & Whitman. (See Oatman, Edward J., assignor.)						
Busacker, John, Utica, N. Y. Binding-guide for sewing-machines	350,113	Oct. 5	23	6, 7	37	8
Busby, Nahum J., Maplewood, Mass. Alarm for doors	351,898	Nov. 2	237	67	37	502
Buschemeyer, Henry W., Louisville, Ky. Dental tool	349,338	Sept. 21	1076	277	36	1260
Buschman, Victor H., Baltimore, Md. Hose-reel	351,688	Oct. 26	2300	597	37	440
Buschmann, Victor H., assignor of one-half to A. H. Brinkmann, Baltimore, Md. Stiffening and distending spring for garments	344,767	June 29	2810	727	35	1547
Bush, Charles F., Erie, Pa. Hog-scraping machine	335,742	Feb. 9	925	243 / 244	34	613
Bush, Isaac A., Philadelphia, Pa. Game-board	352,116	Nov. 9	570	151	37	573
Bush, J. W., *et al.* (See McMillan, John L., assignor.)						
Bush, John S., Turnpike, N. C. Well mechanism	345,275	July 13	664	168	36	126
Bush, Leverrier O. (See Humphrey and Bush.)						
Bush, Madison M. (See Driver, Charles H., assignor.)						
Bushee, James, Attleborough, Mass., assignor to S. Davidson, New York, N. Y. Ornamental chain-link	341,993	May 18	1398	373	35	783
Bushee, James, Attleborough Falls, Mass., assignor to S. Davidson, New York, N. Y. Ornamental chain-link	353,015	Nov. 23	1786	480	37	816
Bushnell, Henry, New Haven, Conn. Rod-packing	351,828	Nov. 2	135	38	37	484
Bushnell, Henry, New Haven, Conn. Axle-joint for road-engines	352,220	Nov. 9	733	196	37	600
Bushnell, Henry, New Haven, Conn. Coupling for connecting a series of tubes	355,137	Dec. 28	2157	567	37	1429
Bushnell Pump Company. (See Wheeler and Duntley, assignors.)						
Bushnell, Samuel M. (See Coen, George W., assignor.)						
Büsing, Gerhard, New Orleans, La. Fence	342,282	May 18	1795	476	35	857
Buskirk, Schuyler V., Brooklyn, N. Y. Attaching water-closet pans to their rock-shafts	345,667	July 20	1253	335	35	238
Buss, George F., Grand Rapids, Mich. Dadoing-machine	345,668	July 20	1254	325	36	238
Bussell, Annah E., Nashua, N. H. Rein-holder	341,832	May 11	1185	317	35	737
Büssing, Heinrich, Brunswick, Germany. Device for lifting doors	354,461	Dec. 14	1176	315	37	1228
Bussler, Otto, Nuremberg, Bavaria, Germany. Sheath for lead-pencils	345,364	July 13	783	198	36	147
Bussler, Otto, Nuremberg, Bavaria, Germany. Stylographic pen	350,037	Sept. 28	2056	531	36	1455
Bustard, Cyrus D. H., *et al.* (See Ashby, Daniel S., assignor.)						
Bustard, James G., *et al.* (See Ashby, Daniel S., assignor.)						
Buster, John H., Spenceville, Cal. Car-coupling	347,919	Aug. 24	2051	544	36	867
Buswell, Simeon H., Manchester, N. H. Snow-plow	345,618	July 13	1163	298	36	215
Buswell, William H., Manson, Iowa. Rabbet-plane	351,689	Oct. 26	2301	598	37	441
Butler, Leonard C., assignor of one-third to C. Naumann, Circleville, Ohio. Whiffletree attachment	343,105	June 1	470	119	35	1092
Butcher, Joseph, Boston, Mass. Cyclometer	353,479	Nov. 30	2458	657	37	951
Butcher, Joseph J., and J. H. Wüster, Newcastle-upon-Tyne, county of Northumberland, England. Gas-regulating burner	340,030	Apr. 13	1333	333 / 334	35	243
Butler, Almanzor B., St. Albans, Vt. Garment-supporter	338,218	Mar. 16	1806	471	34	1267
Butler, Amos W., *et al.* (See Knight, Edgar, assignor.)						
Butler, Beauman, assignor of one-half to C. T. Brighams, St. Johnsbury Centre, Vt. Street-sanding machine; Plow	337,300	Mar. 2	567	149 / 150	34	1031
Butler, Beauman, St. Johnsbury Centre, assignor of one-half to C. T. Brigham, St. Johnsbury, Vt. Plow	350,864	Oct. 12	1084	290	37	205
Butler, Charles A., assignor of one-half to G. W. Powell, Moriah, N. Y. Bee-escape	346,023	July 20	1756	453	36	327
Butler, Edward S., Wyoming, Ohio. Process of and apparatus for printing vignettes	354,534	Dec. 21	1289	343	37	1255
Butler, Eli T., Philadelphia, Pa. Middlings-purifier	337,370	Mar. 9	653	173	34	1054
Butler, Elmore, assignor of one-half to W. L. Brown, Collinsville, Ill. Percussion-shell	340,935	Apr. 27	2605	686	35	486
Butler, Frank H. (See Berry and Butler.)						
Butler, H. S. (See Terman, James W., assignor.)						
Butler, Hiram E., and M. Harris, Jamestown, N. Y. Combined blackboard and writing-desk	346,838	Aug. 3	479	132	36	554
Butler, Howard H., Canton, Ohio. Rolling colter	340,906	Apr. 27	2567	676	35	478
Butler, Howard H., Canton, Ohio. Plow-clevis	344,245	June 22	2103	538	35	1411
Butler, James W., Humber Road, Blackheath, county of Kent, England. Composition for the manufacture of blocks for containing electric wires or cables	352,445	Nov. 9	1018	.....	37	656
Butler, James W., Humber Road, Blackheath, county of Kent, England. Apparatus for molding perforated blocks for containing electric wires	352,504	Nov. 9	1087	293	37	670
Butler, Jay F. (See McClinchi and Butler.)						
Butler, Jay F., New York, N. Y. Spring for baby-carriages	348,378	Aug. 31	2707	727	36	998
Butler, Jeremiah C., assignor to himself and E. Allen, Lexington, Mo. Check-rower	337,301	Mar. 2	568	150	34	1031
Butler, John R., assignor, by mesne assignments, of one-half to J. C. Zimmerman, Oshkosh, Wis. Adjustable lamp-bracket	335,503	Feb. 2	576	150	34	543
Butler, Joseph J., near Select, Ky. Combined pitchfork and rake	337,740	Mar. 9	1151	299	34	1139
Butler, Leander, Boston, Mass. Bung or plug	353,292	Nov. 23	2066	552	37	871
Butler, Richard, Glen Easton, W. Va. Mower and reaper	354,500	Dec. 14	1232	330	37	1238
Butler, Stephen T., Socorro, N. Mex. Ter. Buckle for saddles	343,005	June 1	313	81	35	1064
Butler, Theodore, assignor to J. L. Mott Iron Works, New York, N. Y. Bath waste and overflow	346,579	Aug. 3	164	44	36	491
Butler, Thomas O., Chicago, Ill. Rein-holder	335,504	Feb. 2	577	151	34	543
Butler, Warren T., Chelsea, and G. H. Hathaway, Fairhaven, Mass. Track-sanding apparatus for street-cars	336,891	Mar. 2	9	3	34	928
Butler, Warren T., Chelsea, and G. H. Hathaway, Boston, Mass., assignors to Car Track Friction Appliance Company, Portland, Me. Track-sanding apparatus for street-cars	342,729	May 25	2468	654	35	987
Butler, Warren T., Chelsea, assignor to Standard Canceling Ballot Box Company, Boston, Mass. Registering and canceling mechanism for ballot-boxes	354,180	Dec. 14	788	209	37	1157
Butler, Warren T., Chelsea, and G. H. Hathaway, Boston, Mass. Apparatus for sanding car-tracks	350,865	Oct. 12	1086	290	37	205
Butler, Wesley, Litchfield, Ill., assignor of one-half to Pitts Agricultural Works, Buffalo, N. Y. Straw-stacker	342,064	May 18	1506	402 / 403	35	803
Butler, William H. (See Kinney and Butler.)						
Butler, William P., Chicago, Ill. Lamp-reservoir	337,302	Mar. 2	569	150	34	1031

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr.	Official Gazette. Vol.	Official Gazette. Page.
Butler, William P., Chicago, Ill. Street-lamp	338,658	Mar. 23	2404	633	34	1380
Butlin, Charles H., Camborne, county of Cornwall, England. Umbrella	336,034	Feb. 9	1331	352	34	685
Butman, Edward E. (See Bartlett, Jason F., assignor.)						
Butman, Fred P., Holbrook, Mass. Printer's galley	352,854	Nov. 16	1554	419	37	764
Butterfield, Alfred G., High Point, N. C., assignor of one-half to Goodell & Waters, Philadelphia, Pa. Car-brake	353,621	Nov. 30	2672	716	37	990
Butterfield, Charles L., assignor of one-half to the Crescent Manufacturing Company, St. Louis, Mo. Feed-hopper	352,446	Nov. 9	1018	274	37	656
Butterfield, Francis O., Lynn, Mass. Wrapper for coins and other small articles	335,054	Jan. 26	2173	577	34	422
Butterfield, George F., Stoneham, Mass. Rubber sole and heel	333,595	Jan. 5	133	36	34	27
Butterfield, George F., Stoneham, Mass. Mold for vulcanizing rubber to leather	349,696	Sept. 28	1570	407	36	1364
Butterfield, Henry R., Waterville, Me. Machine for forming pails from paper-pulp	335,055	Jan. 26	2174	578	34	422
Butterfield, Rolla, *et al.* (See Stiles, Sidney L., assignor.)						
Butterfield, Samuel K., Swanton, Vt. Bed-spring	337,806	Mar. 9	1233	320	34	1153
Butterfield, William, Auburn, assignor to D. M. Osborne & Company, New York, N. Y. Grain-binding machine	333,922	Jan. 5	580	157, 158, 159, 160	34	109
Butters, George F. (See Paull and Butters.)						
Butters, George F., assignor of one-half to A. W. Paull, Wheeling, W. Va. Machine for drawing sheet-metal articles	353,439	Nov. 30	2400	640, 641	37	940
Butters, Horace, Ludington, Mich. Hoisting-pulley	349,691	Sept. 28	1572	407	36	1364
Butterworth, Alexander W., Poughkeepsie, N. Y. Puzzle	351,493	Oct. 26	2018	524	37	387
Butterworth, Robert, Somerville, Mass., assignor, by mesne assignments, to Fiberlene Collar Company, Portland, Me. Making music-strips	337,304	Mar. 2	571	151	34	1031
Butterworth, Robert, Somerville, assignor, by mesne assignments, to Fiberlene Collar Company, Worcester, Mass. Die	339,084	Mar. 30	3034	801	34	1496
Butterworth, Robert, Somerville, assignor, by mesne assignments, to Fiberlene Collar Company, Worcester, Mass. Die	340,976	May 4	8	2	35	506
Butterworth, Robert, Somerville, assignor to himself and Reversible Collar Company, Boston, Mass. Making collars	340,695	Apr. 27	2286	602	35	427
Butterworth, Robert, Somerville, assignor to himself and Reversible Collar Company, Boston, Mass. Die	343,563	June 15	1165	294	35	1233
Butterworth, Robert, Somerville, assignor to himself and Reversible Collar Company, Boston, Mass. Collar	344,031	June 22	1803	464	35	1356
Butterworth, Theodore, Quincy, Ill. Bull-ringer	339,526	Apr. 6	594	144	35	109
Buttler, William. (See Blair and Buttler.)						
Buttner, Henry W. P., New York, N. Y. Artificial denture	352,855	Nov. 16	1555	420	37	764
Button, Benjamin G., *et al.* (See Kittell, Ernest A., assignor.)						
Button, Theodore E., Waterford, N. Y. Steam-boiler	335,680	Feb. 9	827	220	34	595
Butts, Alexander P., Brockport, N. Y. Paper-file	346,839	Aug. 3	480	132	36	554
Butts, Baker V., Halifax, N. C. Fender	354,501	Dec. 14	1233	330	37	1238
Buttz, Samuel D. (See Cowles and Buttz.)						
Butz, Albert M., Minneapolis, Minn. Thermo-electric damper-regulator and alarm	341,092	May 4	158	47	35	534
Butz, Albert M., Minneapolis, Minn. Thermo-electric damper regulator and alarm	347,866	Aug. 24	1967	522	36	853
Butz, Samuel, Easton, Pa. Shirt	335,505	Feb. 2	578	151	34	544
Butz, Samuel, Easton, Pa. Shirt	343,006	June 1	314	81	35	1064
Buxton, Anthony P., assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Hanging lamp	336,035	Feb. 9	1332	353	34	685
Buzzell, Frank P., Lynn, Mass. Revolving pad for cleaning the soles of boots or shoes	351,737	Nov. 2	11	3	37	460
Buzzini, Salvatore J., New York, N. Y. Fire-arm	340,482	Apr. 20	1975	508	35	367
Byam, George A., *et al.* (See Logan, Thomas H., assignor.)						
Byam, Sewall T. J., assignor to New Haven Watch Company, New Haven, Conn. Watch-barrel	340,936	Apr. 27	2607	687	35	486
Byerley, Francis X., assignor of one-half to C. M. Mix, Cleveland, Ohio. Purifying paraffine and extracting oil from oleaginous materials	347,288	Aug. 10	1124	301	36	679
Byers, Joseph J., Brooklyn, N. Y. Ventilated water-proof and other garments	346,087	July 27	1834	474	36	351
Byers, Joseph W., assignor to himself and O. P. Weiss, Charleston, Ill. Flexible abrasive or polishing disk	336,695	Feb. 23	2307	603	34	871
Byers, Oscar D., Syracuse, N. Y. Coffin	354,852	Dec. 21	1741	461	37	1339
Byers, Sarah J., Lafayette, Ind. Ash-pan	350,866	Oct. 12	1087	290	37	203
Byfield, John, assignor to Byfield Manufacturing Company, Lowell, Mass. Stop-motion for knitting-machines	342,823	June 1	70	17, 18	35	1019
Byfield, John, assignor to Byfield Manufacturing Company, Lowell, Mass. Knitting-machine	354,502	Dec. 14	1234	331	37	1238
Byfield Manufacturing Company. (See Byfield, John, assignor.)						
Byington, Frederick F., Oakland, Cal. Gage attachment for printing-presses	351,309	Oct. 19	1714	450	37	326
Byler, David L., Clinton, Mo. Tree-protector	334,743	Jan. 26	1766	470	34	348
Byllesby, Henry M., Roselle, N. J., assignor to G. Westinghouse, Jr., Pittsburg, Pa. System of electrical distribution	345,212	July 6	564	144, 145	36	102
Bynner, Edgarton. (See Manton, Joseph P., assignor.)						
Byrd, Samuel R., Bluff Creek, Miss. Cotton-seed distributer	341,994	May 18	1398	373	35	783
Byrkett, Abijah R., Troy, Ohio. Magazine fire-arm	336,289	Feb. 16	1747	457	34	762
Byrkit, Edwin M., assignor of one-half to J. H. Murry and A. A. Adair, Indianapolis, Ind. Dovetailing-machine	335,335	Feb. 2	350	91	34	504
Byrkit, Edwin M., assignor of one-half to J. H. Murry and A. A. Adair, Indianapolis, Ind. Saw-mandrel	335,336	Feb. 2	351	91	34	504
Byrne, Edward A., and E. Kosiol, Cincinnati, Ohio. Lubricator for loose pulleys, &c.	342,425	May 25	2034	537	35	907
Byrne, James H., assignor of one-half to H. S. Welch, Nevada City, Cal. Hydraulic nozzle and gate	352,732	Nov. 16	1399	378	37	736
Byrne, Samuel H., Brighouse, county of York, England. Process of and apparatus for drawing and straightening wire	339,739	Apr. 13	947	232	35	172
Byrne, Samuel H., Brighouse, county of York, England. Apparatus for drawing wire	353,663	Dec. 7	13	4	37	1009
Byrne, Sylvester, Philadelphia, Pa. Grab-hook	341,401	May 4	605	165	35	614
Byrne, Sylvester, Philadelphia, Pa. Knife-polishing machine	351,738	Nov. 2	11	3, 4	37	461
Bywater, Joseph K., and J. Y. Burke, Paris, Tex. Car-seat recorder	337,305	Mar. 2	572	151	34	1032
Cabble, Elijah, Brooklyn, N. Y. Centrifugal machine for extracting water from coils of wire, &c.	348,316	Aug. 31	2622	707	36	981
Cabell, Flora B., *et al.* (See Cabell, Samuel G., assignor.)						
Cabell, Milton S., *et al.* (See Cabell, Samuel G., assignor.)						
Cabell, Samuel G., Washington, D. C. Apparatus for purifying and aging liquors and purifying water and oil	354,853	Dec. 21	1743	462	37	1340
Cabell, Samuel G., Washington, D. C., assignor to P. E. Iler, Omaha, Nebr., M. S. Cabell, Quincy, Ill., and F. B. Cabell, Washington, D. C. Apparatus for aging liquors	341,727	May 3	562	279	35	711

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cable, John H., Jersey City, N. J. Ironing-board	354,768	Dec. 21	1640	434	37	1320
Cabot, John A., *et al.* (See Steiger, Andrew W., assignor.)						
Cadbury, Joel. (See Baker, Francis R., assignor.)						
Cadbury, Joel, *et al.* (See McIlvenna and Rollason, assignors.)						
Cadbury, Joel, and J. G. Rollason, Birmingham, England. Cord or band	341,219	May 4	348	96	35	569
Caddick, Edward, *et al.* (See Tickle and Leonardt, assignors.)						
Caddick, Edward, *et al.*, trustees. (See Tickle and Leonardt, assignors.)						
Cade, John T. (See Johnson and Cade.)						
Cady, Charles D. (See Valette and Cady.)						
Cady, Edward B., Jackson, Mich. Bustle	354,682	Dec. 21	1516	402	37	1296
Cady, Joseph C., Northfield, Vt. Cow-tail holder	350,114	Oct. 5	24	7	37	8
Cadwell, Lydia J., Chicago, Ill. Drier	333,825	Jan. 5	450	122 / 123	34	84
Cadwell, Lydia J., Chicago, Ill. Drier	353,016	Nov. 23	1787	481	37	817
Cadwell, Lydia J., Chicago, Ill. Drying distillers' slops	353,017	Nov. 23	1788	.....	37	817
Caesar, Julius, New York, N. Y. Exercising device for musicians	348,379	Aug. 31	2707	727	36	998
Cahill, John. (See Whyte, George W., assignor.)						
Cahill, Miles S. (See Strain, Edwin, assignor.)						
Cahill, Thaddeus, assignor of two-thirds to T. J. Cahill, Oberlin, Ohio. Organ	345,028	July 6	331	83	36	61
Cahill, Timothy. (See Cahill, Thaddeus, assignor.)						
Cahoone, Edwin R., Newark, N. J. Bridle-winker	341,550	May 11	809	216	35	663
Cahoone, Edwin R., Newark, N. J. Mucilage-bottle	346,088	July 27	1835	474	36	352
Cahoone, Edwin R., Newark, N. J. Mucilage-bottle	355,000	Dec. 28	1956	516	37	1391
Cahow, Daniel B., Akron, Ohio. Pump	349,205	Sept. 14	915	235	36	1219
Cahow, Daniel B., Akron, Ohio. Thill-coupling	352,517	Nov. 16	1104	298	37	680
Cain, George F. (See Dunn and Cain.)						
Cain, Jacob, Fort Wayne, Ind. Rubber eraser and pencil-holder	343,007	June 1	315	81	35	1064
Cairns, Charles L. (See Cairns, William and C. L.)						
Cairns, James, Philadelphia, Pa. Meat-suspending hook	351,739	Nov. 2	12	4	37	461
Cairns, William and C. L., Jersey City, N. J. Centrifugal extractor	355,138	Dec. 28	2157	567	37	1429
Calantarients, Johannes A., Scarborough, county of York, England. Construction of surfaces for skating, &c	337,128	Mar. 2	328	86	34	987
Calbuth, Richard D., *et al.* (See McKinster, Frank, assignor.)						
Calder, John R. (See Barry and Calder.)						
Calder, Louis S. (See Deeds, John B., assignor.)						
Caldwell, Alexander, New York, N. Y. Gas-regulator	340,696	Apr. 27	2288	603	35	427
Caldwell, Alonzo, Baltimore, Md., assignor of two-thirds to M. Sheeler and W. R. McKnew. Bottle-capping machine	340,417	Apr. 20	1885	484	35	351
Caldwell, Benjamin F., Wheeling, W. Va. Implement for bending metallic roofing-plates	341,315	May 4	490	133	35	593
Caldwell, Benjamin F., Wheeling, W. Va. Painting metallic plates	347,990	Aug. 24	2153	573	36	886
Caldwell, Benjamin F., Wheeling, W. Va. Machine for forming metallic roofing into packages	347,991	Aug. 24	2155	573 / 574	36	886
Caldwell, Benjamin F., Wheeling, W. Va. Packing sheet-metal roofing	350,343	Oct. 5	326	92	37	66
Caldwell, Benjamin F., Wheeling, W. Va. Device for packing and protecting sheet metal	350,344	Oct. 5	326	93	37	66
Caldwell, Benjamin F., Wheeling, W. Va. Stove-pipe	354,390	Dec. 14	1079	289	37	1211
Caldwell, Benjamin F., and W. F. Peterson, Wheeling, W. Va. Packing sheet-metal roofing	341,314	May 4	489	132	35	593
Caldwell, James. (See Smith and Caldwell.)						
Caldwell, James, and W. M. Smith, Philadelphia, Pa. Mechanism for the manufacture of picture-mats, &c	337,129	Mar. 2	333	86, 87	34	987
Caldwell, James L. (See Beales, Emanuel D., assignor.)						
Caldwell, John, Wilmington, Del. Hand-truck	342,950	June 1	252	64	35	1052
Caldwell, John H., Philadelphia, Pa. Clamp for overshoes	339,740	Apr. 13	949	232	35	173
Caldwell, John K., Porter Station, Ind. Brick-drying structure	334,107	Jan. 12	852	234	34	165
Caldwell, William, assignor of three-eighths to J. Shill, Buffalo, N. Y. Steam-boiler	336,036	Feb. 9	1333	353	34	685
Caldwell, William L., Upper Sandusky, Ohio. Hog-ring	339,852	Apr. 13	1093	272	35	200
Caldwell, William M., *et al.* (See Reinhardt, James H., assignor.)						
Calef, Joseph W., North Easton, Mass., assignor of one-half to C. S. Corfield, Philadelphia, Pa. Shovel	339,527	Apr. 6	595	144	35	109
Calender, James M., Milton, Ohio. Nut-lock	336,892	Mar. 2	11	3	34	929
Calhoun, Allan, Middlebury, Vt. Steam-boiler	341,220	May 4	349	97	35	569
Calhoun, Andrew J., Socorro, N. Mex. Ter. Combination-lock	335,337	Feb. 2	352	91, 92	34	504
Calkins, Allen C., *et al.* (See Boone, Alonzo T., assignor.)						
Calkins, George L., Toledo, Ohio. Land-roller	334,744	Jan. 26	1767	471	34	348
Call, Edward B., Peoria, Ill. Root-dresser for dentists	335,890	Feb. 9	1146	305	34	653
Callahan, Cornelius, Chelsea, Mass. Hose pipe and nozzle	345,570	July 13	1104	282	36	204
Callahan, John, Milwaukee, Wis. Billiard-cue clamp	337,659	Mar. 9	1052	270	34	1122
Callahan, Julia A., Brooklyn, N. Y. Opera-chair	351,899	Nov. 2	239	67	37	502
Callanen, Frank J., *et al.* (See Eichmeyer, Joseph C., assignor.)						
Callard, John W., Toledo, Ohio. Blotter-case for copying-presses	350,802	Oct. 12	996	267	37	188
Callaway, J. D., *et al.* (See Davis, William M., assignor.)						
Calley, Freeman A., Pawtucket, R. I. Knitting-machine	338,478	Mar. 23	2163	565	34	1338
Calo, Christopher G., assignor to Bradley, Voorhees & Day Manufacturing Company, New York, N. Y. Combined breast-collar and saddle	339,372	Apr. 6	370	90	35	69
Calpin, Thomas S., St. Johns, Newfoundland. Anchor	337,241	Mar. 2	479	126	34	1044
Calvert, Thomas E., Lincoln, Nebr. Railway switch-stand and switch-connection	353,664	Dec. 7	14	5	37	1009
Camburn, Jacob C., St. Louis, Mo. School-furniture	350,803	Oct. 12	997	267	37	188
Cameron, George H., *et al.* (See Spilman, Baldwin D., assignor.)						
Cameron, James H. (See Braley, Henry C., assignor.)						
Cameron, James W., assignor to D. J. Boehm, New York, N. Y. Cigar-rolling machine	338,921	Mar. 30	2799	738	34	1456
Cameron, John F., New York, N. Y. Floor-cleaning machine	348,317	Aug. 31	2623	707	36	981
Cameron, Robert, Philadelphia, Pa. Hame	340,697	Apr. 27	2289	603	35	428
Cameron, William A. (See Wing, Daniel S., assignor.)						
Cammann, Louis D., New York, N. Y. Sand-box for tram-cars	345,768	July 20	1401	363	36	264
Camp, David C. and H. P., Gainesville, Ga. Gearing	333,826	Jan. 5	454	123	34	84
Camp, Edmond T., Villa Rica, Ga. Seed and fertilizer distributer	352,117	Nov. 9	572	152	37	573
Camp, Henry P. (See Camp, David C. and H. P.)						
Camp, Jacob, *et al.* (See James, Winfield E., assignor.)						
Campany, Milton E., Muskegon, Mich. Step for passenger-coaches	354,769	Dec. 21	1640	434	37	1320
Campbell, Allan. (See Westerlin and Campbell.)						
Campbell, Alonzo C., Nashville, Tenn. Ore-separator	335,338	Feb. 2	357	93	34	505
Campbell, Andrew, *et al.* (See Hooper, George H., assignor.)						
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Printing-machine	345,669	July 20	1255	325 / 326	36	239

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Speed-regulator	345,670	July 20	1266	326 / 327	36	240
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Speed-regulator	350,971	Oct. 19	1231	326 / 327	37	238
Campbell, Andrew, and J. Ash, Lower Clapton, county of Middlesex, England. Submarine boat or vessel	344,718	June 29	2740	711	35	1535
Campbell, Angeline H., Philadelphia, Pa. Soap-receptacle	354,683	Dec. 21	1517	402	37	1296
Campbell, Arthur S., Manchester, N. H. Palette-knife and brush-supporter	337,660	Mar. 9	1052	271	34	1122
Campbell, B. n. L. (See Mahanay and Campbell.)						
Campbell, Charles. (See Adams, George B., assignor.)						
Campbell, Charles H., *et al.* (See Campbell, Joseph H., assignor.)						
Campbell, Charles L., Washington, D. C. Machine for manipulating tickets	341,221	May 4	350	97, 98	35	569
Campbell, Christopher C., Chester, Mass. Reversible broiler	347,992	Aug. 24	2157	574	36	886
Campbell & Clute. (See Clute, John, assignor.)						
Campbell & Clute. (See Clute, John, assignor.) (Reissue.)						
Campbell, Edward R., Austin, Minn. Hitching strap holder	352,676	Nov. 16	1325	357	37	720
Campbell, Elwell, Kansas City, Mo. Railway-frog	349,783	Sept. 28	1723	445	36	1390
Campbell, Enos, Minneapolis, Minn. Conduit for electrical conductors	346,840	Aug. 3	480	133	36	555
Campbell, Eugene. (See Shaver, Wellington, assignor.)						
Campbell, Frank L. (See Vandegrift and Campbell.)						
Campbell, George, assignor of one-half to J. Richie, Jr., Toronto, Ontario, Canada. Lawn-mower	339,616	Apr. 13	766	190	35	141
Campbell, George, Toronto, Ontario, Canada, assignor to E. A. Blake, Chicago, Ill. Exhaust-fan	347,227	Aug. 10	1638	277	36	664
Campbell, George T., San Francisco, Cal. Bellows	334,934	Jan. 26	2000	533	34	392
Campbell, George W., Alamo, Ind. Cultivator attachment	348,721	Sept. 7	255	68	36	1094
Campbell, George W., assignor of one-fourth to E. C. Roberts, El Paso, Tex. Water-elevator	352,304	Nov. 9	955	256	37	644
Campbell, Hamilton H., Blackburn, Pa. Car-coupling	344,719	June 29	2742	712	35	1536
Campbell, Harry C., Pittsburg, Pa. Regenerative gas-burner	337,130	Mar. 2	335	87	34	987
Campbell, James E., *et al.* (See Fischer, Joseph B., assignor.)						
Campbell, James L., Lockport, Ill. Speed-regulator for the rolls of a paper-mill	333,827	Jan. 5	455	124	34	85
Campbell, James L., West Elizabeth, Pa. Incubator	333,828	Jan. 5	457	124	34	85
Campbell, James L., Monticello, Ga. Horse-jar	353,732	Dec. 7	146	32	37	1037
Campbell, James W., Germantown, N. Y. Heat-regulating attachment for incubators	344,474	June 29	2419	623	35	1475
Campbell, James W., Germantown, N. Y. Thermostatic regulator for incubators	351,494	Oct. 26	2019	524	37	387
Campbell, John H., New York, N. Y. Ornamental wall-covering	333,737	Jan. 5	320	88	34	60
Campbell, Jones & Co. (See Franz, Henry, assignor.)						
Campbell, Joseph H., New York, N. Y. Utilizing aqua-ammonia in engines	346,425	July 27	2310	595	36	441
Campbell, Joseph H., assignor of three-eighths to C. H. Campbell and J. McLain, New York, N. Y. Engine and method of operating the same	337,371	Mar. 9	655	173	34	1054
Campbell, Joseph H., assignor of three-eighths to C. H. Campbell and J. McLain, New York, N. Y. Utilizing aqua-ammonia as a motive power in engines	337,372	Mar. 9	659	173	34	1054
Campbell, Joseph H., assignor of three-eighths to C. H. Campbell and J. McLain, New York, N. Y. Vapor-engine	337,373	Mar. 9	661	173	34	1055
Campbell, Joseph H., assignor of three-eighths to C. H. Campbell and J. McLain, New York, N. Y. Utilizing aqua-ammonia as a motive power in engines	337,374	Mar. 9	664	174	34	1055
Campbell, Neil, assignor to Brooklyn Rail Way Supply Company, Brooklyn, N. Y. Journal-box for snow-sweepers	333,596	Jan. 5	133	36	34	27
Campbell, Neil, assignor to Brooklyn Rail Way Supply Company, Brooklyn, N. Y. Draw-bar for snow-sweepers	333,597	Jan. 5	134	37	34	27
Campbell, Neil, assignor to Brooklyn Rail Way Supply Company, Brooklyn, N. Y. Snow-sweeper	333,598	Jan. 5	135	37	34	27
Campbell, Neil, assignor to Brooklyn Rail Way Supply Company, Brooklyn, N. Y. Snow-sweeper	333,599	Jan. 5	136	37	34	28
Campbell, Parker, Denton, assignor to I. T. Pryor, Austin, Tex. Mail bag or pouch	335,424	Feb. 2	471	121 / 122	34	526
Campbell, Peter E., Dovesville, S. C. Remedy for dropsy	345,671	July 20	1262	.....	36	240
Campbell, Richard, Spirit Lake, Iowa. Snow-plow	351,161	Oct. 19	1515	396 / 397	37	290
Campbell, Robert L., Chicago, Ill. Last	337,131	Mar. 2	336	87	34	988
Campbell, Septimus R., and C. H. Finch, assignors of one-half to W. Hewitt, Toronto, Ontario, Canada. Lawn-mower	338,479	Mar. 23	2164	566	34	1339
Campbell, Thomas. (See Webber, Charles C., assignor.)						
Campbell, William. (See Matthews, William, assignor.)						
Campbell, William, New York, N. Y. Wall-paper	351,962	Nov. 2	339	93	37	521
Campbell, William C., St. Louis, Mo. Sectional kitchen-safe	335,014	Jan. 26	2112	562	34	411
Campbell, William H., Ridge Farm, Ill. Gate	337,375	Mar. 9	665	174	34	1055
Campbell, William H. H., Wichita, Kans. Stone-sawing machine	337,661	Mar. 9	1053	271	34	1122
Campbell, William W., Kilmore, Ind. Car-coupling	346,089	July 27	1836	474	36	352
Campfield, Matthew E., Stirling, Ohio. Wrench	354,770	Dec. 21	1641	334	37	1320
Campi, Lucas M., New York, N. Y. Vertical rotary swing	336,696	Feb. 23	2308	603 / 604	34	871
Campi, Lucas M., New York, N. Y. Swing	340,977	May 4	10	3	35	507
Campiche, Louis, assignor to Mermod Freres, St. Croix, Switzerland. Musical box	336,210	Feb. 16	1623	424	34	742
Camus, Henri, deceased, J. C. Jalageas, St. Louis, Mo., administrator. Shutter-fastener	347,610	Aug. 17	1588	422	36	775
Canaday, Nathan F. (See Lamb, Jesse M., assignor.)						
Canan, James, Port Colborne, Ontario, Canada. Bottle	345,112	July 6	435	112	36	79
Canda, Ferdinand E., New York, N. Y. Cattle-car	344,161	June 22	1989	509	35	1389
Canda, Ferdinand E., New York, N. Y. Water-tank for cattle-cars	344,162	June 22	1991	509	35	1390
Canda, Ferdinand E., New York, N. Y. Mechanism for driving hand-cars	344,163	June 22	1992	510	35	1390
Canda, Ferdinand E., New York, N. Y. Cattle-car	345,481	July 13	950	239 / 240	36	176
Canda, Ferdinand E., New York, N. Y. Cattle-car	345,482	July 13	951	240	36	177
Candee & Co., L. (See Watkinson, George, assignor.)						
Canedy, William E., Rochester, Minn. Potato-cutter	343,983	June 22	1732	445	35	1344
Canedy, William E., Rochester, Minn. Potato-planter	343,984	June 22	1733	446	35	1344
Canfield, Charles G., Cleveland, Ohio. Passenger-van	342,553	May 25	2254	594	35	944
Canfield, Charles S., assignor of one-half to S. M. Utter, Minneapolis, Minn. Horseshoe	338,139	Mar. 16	1701	443	34	1247
Canfield, Charles S., assignor of one half to S. M. Utter, Minneapolis, Minn Horseshoe	354,886	Dec. 28	1801	476	37	1362
Canfield Rubber Company. (See Baldwin, Daniel M., assignor.)						
Canfield Rubber Company. (See Hicks, Ratcliffe, assignor.)						
Canfield Rubber Company. (See Hines, Charles A., assignor.)						
Canfield Rubber Company. (See Hiscott, Alva J., assignor.)						
Canfield Rubber Company. (See Shelby, Christopher C., assignor.)						
Cannan, James, Elgin, Ill. Steam-boiler furnace	339,143	Apr. 6	32	11	35	9

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Canning, William P., assignor to Lowell Machine Shop, Lowell, Mass. Slasher for sizing and drying yarn	346,639	Aug. 3	243	67	36	508
Cannon, Charles H., Providence, R. I. Dental tool	340,553	Apr. 27	2085	538	35	395
Cannon, Corodon S., Galesburg, Mich. Tether	340,554	Apr. 27	2086	538	35	395
Cannon, Riley E., Nicholasville, Ky. Rubber shoe	351,572	Oct. 26	2129	551	37	409
Cantelli, Joseph J., assignor of one-half to C. W. Davis, Philadelphia, Pa. Alarm	352,856	Nov. 16	1556	420	37	764
Canton Hoe and Tool Company. (See Tonner, A. Clarke, assignor.)						
Canton Manufacturing Company. (See Toppan, Charles, assignor.)						
Capel, Herbert C., London, England. Baling-press	338,712	Mar. 30	2497	660, 661	34	1402
Capewell, George J., Cheshire, Conn. Manufacture of horseshoe-nails	351,573	Oct. 26	2130	551	37	409
Capewell, George J., Cheshire, Conn. Horseshoe-nail machine	351,574	Oct. 26	2132	552, 553, 554	37	409
Capewell, Walter S., Oakville, Conn. Shot and powder charger	346,718	Aug. 3	339	92	36	527
Capewell, Walter S., Oakville, Conn. Cartridge-belt	346,719	Aug. 3	340	92	36	527
Cappiani, Luisa, New York, N. Y. Sheet-music case	346,530	Aug. 3	103	28	36	480
Capron, Franklin S., Taunton, Mass. Broom-support	338,348	Mar. 23	1848	486	34	1283
Capron, Jacob, New York, N. Y. Sash center or pivot	350,659	Oct. 12	796	216	37	152
Caps, John E., assignor of one-half to C. Carlton, Kansas City, Mo. Stereotype-casting machine	352,447	Nov. 9	1019	274	37	656
Car Track Friction Appliance Company. (See Butler and Hathaway, assignors.)						
Carbon Casket Company. (See Fryer, Robert M., assignor.)						
Card, George F., assignor to H. K. Lindsey, Covington, Ky. Car-brake	334,637	Jan. 19	1620	431, 432	34	313
Card, Milton E., and W. H. Cruttenden, Cazenovia, N. Y. Breech-loading fire-arm	340,283	Apr. 20	1705	434, 435	35	316
Card, William J., assignor of one-half to G. V. Foreman, Olean, N. Y. Handle-lock for stamps and other articles	347,685	Aug. 17	1713	457	36	797
Card, William L., La Crosse, Wis., assignor to Tierra Seca Mining Company. Gold-separator	347,867	Aug. 24	1970	522, 523	36	853
Card, William L., La Crosse, Wis., assignor to Tierra Seca Mining Company. Machine for eliminating metals from their matrices	347,868	Aug. 24	1974	523, 524	36	854
Card, William L., La Crosse, Wis., assignor to Tierra Seca Mining Company. Crusher and pulverizer	347,869	Aug. 24	1977	524	36	854
Card, William L., La Crosse, Wis., assignor to Tierra Seca Mining Company. Screen	347,870	Aug. 24	1980	525	36	854
Cardew, Philip, Chatham, county of Kent, England. Apparatus for measuring electric currents	342,777	June 1	5	2	35	1008
Cardona, Joseph, Chicago, Ill. Combination table, bath-tub, and wash-tub	341,222	May 4	354	98, 99	35	570
Cardona, Joseph, assignor of one-half to E. Burkhardt, Chicago, Ill. Apparatus for molding ornamental work in papier-maché and other materials	340,555	Apr. 27	2087	538, 539	35	395
Cardwell, George A., Brooklyn, assignor of two-thirds to F. K. Fitch, New York, N. Y., and J. T. Murray, Newark; said Murray assignor of one-half to W. P. Arnold, Elizabeth, N. J. Multiple harmonic printing-telegraph	335,681	Feb. 9	828	221	34	596
Cardwell, George A., Brooklyn, and F. K. Fitch, New York, N. Y., assignors of one-third to J. T. Murray, Newark, N. J. Transmitter for harmonic printing-telegraphs	335,682	Feb. 9	833	221	34	596
Carey, John E., assignor of one-half to F. J. Will and L. Moats, Eagle Grove, Iowa. Neck-yoke center	349,383	Sept. 21	1164	302	36	1277
Carey, Julian E., New York, N. Y. Winding and controlling system for electric clocks	341,450	May 11	673	181	35	637
Carey, Julian E., New York, N. Y., assignor to Electric Time Company. Electric clock	334,745	Jan. 26	1760	471, 472	34	349
Carey, Julian E., New York, N. Y., assignor to Electric Time Company. Step-by-step mechanism for electric clocks	339,264	Apr. 6	215	54	35	40
Carey, Julian E., New York, N. Y., assignor to Electric Time Company. Electric clock system	340,483	Apr. 20	1976	508	35	368
Carey, Julian E., New York, N. Y., assignor to Electric Time Company. Electric clock and clock system	341,449	May 11	667	180, 181	35	636
Carey, Michael, Kalamazoo, Mich. Calendar	337,478	Mar. 9	833	211	34	1082
Cargill & Co. (See Schilling, Frederick, assignor.)						
Carhart, David V., assignor of one-half to T. Peppler, Hightstown, N. J. Cultivator	351,357	Oct. 26	1785	469	37	344
Carhart, Elliott, Brooklyn, N. Y. Electric bell	344,940	July 6	197	51	36	37
Carleton, Charles, assignor of one-half to E. M. Hulse, Chicago, Ill. Spring bed-bottom	349,478	Sept. 21	1294	336	36	1302
Carleton, William, Pomeroy, Ohio. Harrow	341,451	May 11	676	182	35	637
Carleton, William E., *et al.* (See Bogan, James F., assignor.)						
Carley, Clarence R., Syracuse, N. Y. Paint or varnish pail	340,859	Apr. 27	2505	660	35	467
Carley, James T., Greenport, N. Y. Egg-beater	354,684	Dec. 21	1518	403	37	1296
Carley, John W., Thornton, Tex. Tamping-machine	347,920	Aug. 24	2052	544, 545	36	868
Carley, John W., Thornton, Tex. Car-coupling	350,527	Oct. 12	598	165	37	116
Carlile, George F., assignor of one-half to G. L. Thomas, Cincinnati, Ohio. Railway-signal	340,698	Apr. 27	2290	603, 604	35	428
Carlin, Frederick W., Brooklyn, N. Y. Combined carriage-step and receiver for garbage and other refuse	338,825	Mar. 30	2663	700, 701	34	1432
Carlin, Thomas H., assignor of two-thirds to W. J. Carlin and J. T. Arnold, trustee, Allegheny, Pa. Wheel	338,992	Mar. 30	2800	738	34	1457
Carlin, William J., *et al.* (See Carlin, Thomas H., assignor.)						
Carll, Addison B., Bradford, Pa. Balanced rocker-valve	339,265	Apr. 6	217	54	35	40
Carll, Charles W., Camden, N. J. Chimney-top	338,249	Mar. 23	1849	486	34	1283
Carll, Maskell F., Providence, R. I. Vulcanizer	345,883	July 20	1557	402	36	292
Carlough, Daniel. (See Cooke and Carlough.)						
Carlough, Daniel. (See Ludlow and Carlough.)						
Carlson, Charles P., McKeesport, Pa. Boat-pump	346,720	Aug. 3	340	93	36	527
Carlton, Cortland. (See Caps, John E., assignor.)						
Carman, Alvin O., Potterville, Mich. Grain-binding harvester	339,144	Apr. 6	34	11, 12, 13	35	9
Carman, Alvin O., Potterville, Mich. Self-binding harvester	339,145	Apr. 6	40	13, 14	35	11
Carman, Alvin O., Potterville, Mich. Shoe-fastening	339,146	Apr. 6	43	14	35	11
Carman, John W., Madison, Wis. Window-screen	337,741	Mar. 9	1151	299	34	1139
Carman, William W., Portsmouth, N. H. Steam-heating radiator	348,615	Sept. 7	115	32	36	1068
Carnical, Luther M., Jonesville, Va. Calculator	346,805	Aug. 3	430	118	36	544
Carmichael, Henry, Brunswick, Me. Waterproofing of fabrics	342,175	May 18	1648	.....	35	831
Carmichael, Henry, Brunswick, Me. Apparatus for making vessels out of pulp	342,176	May 18	1649	441	35	831
Carmichael, Henry, Brunswick, Me. Paper pail	342,177	May 18	1650	441	35	831
Carmichael, Henry, Brunswick, Me. Making hollow ware from paper-pulp	342,178	May 18	1650	441	35	831

Alphabetical list of patentees—Continued.

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Carmichael, Henry, Brunswick, Me. Treating fibrous and porous ware	342,179	May 18	1651	.....	35	831
Carmichael, Henry, Brunswick, Me. Apparatus for making hollow ware from pulp	342,180	May 18	1652	441	35	831
Carnahan, Abraham W., Rouseville, Pa. Pumping and drilling machine	341,637	May 11	928	246	35	686
Carnahan, Cyrus M., Pittsburg, assignor of one-half to W. J. Hammond, Bellevue, Pa. Machine for splitting bars and sheets of iron or steel. (Reissue)	10,729	May 25	2324	674	35	998
Carnell, George, Philadelphia, Pa. Machine for pressing plastic material into bricks, &c.	340,284	Apr. 20	1709	435	35	317
Carnes, Ira, assignor to Lima Machine Works, Lima, Ohio. Steam car-brake	338,032	Mar. 16	1561	404	34	1219
Carnes, John W., Orion, Ill. Tuning-pin for pianos	352,395	Nov. 9	956	256	37	644
Carney, George J., Lowell, Mass. Trunk-strap	343,222	June 8	651	162	35	1133
Carney, John L., *et al.* (See Woodward, William M., assignor.)						
Carney, Thomas, St. Paul, Minn. Self-registering cash-box	334,347	Jan. 12	1220	328, 329	34	234
Carnrick, John, New York, N. Y. Dietetic compound	342,574	May 25	2237	.....	35	944
Carnrick, John, New York, N. Y. Dietetic compound	342,575	May 25	2238	.....	35	944
Carolus, Isaac S., Sterling, Ill. Band-cutter's platform	341,551	May 11	810	216	35	663
Caron, Ulric, St. Thomas de Pierreville, Quebec, Canada. Door-lock	341,728	May 11	1053	279	35	712
Carpenter, Alice P. (See Carpenter and Wright, assignors.)						
Carpenter, Alice P. (See Wood, Lucius A., assignor.)						
Carpenter, Charles A. (See Likly, Carpenter, and Graves.)						
Carpenter, Charles C. (See Phillips, Mary, assignor.)						
Carpenter, Charles C. (See Whitmarsh, Henry C., assignor.)						
Carpenter, Charles C., New York, N. Y. Bustle	334,638	Jan. 19	1622	432	34	314
Carpenter, Edwin P., and M. S. Wright, Brattleborough, Vt., assignors to A. P. Carpenter, Foxcroft, Me. Key-indicator for musical instruments	347,686	Aug. 17	1714	457	36	797
Carpenter, Francis L., Hartland, Vt. Griddle	354,593	Dec. 21	1381	366	37	1271
Carpenter, Frank R., Georgetown, assignor of two-thirds to C. E. Dewey and F. A. Maxwell, Clear Creek County, Colo. Machine for concentrating ores	344,720	June 29	2743	712	35	1536
Carpenter, George E., Passaic, and A. F. Tucker, Jersey City, N. J. Alarm for railway-trains	354,302	Dec. 14	966	257	37	1189
Carpenter, Harvey N., Philadelphia, Pa. Paper box	339,147	Apr. 6	44	14	35	11
Carpenter, James W. (See Maxon, Thomas, assignor.)						
Carpenter, Oliver, Oakland, Cal. Rubber-dam clamp	354,391	Dec. 14	1089	200	37	1211
Carpenter & Son, Earl. (See Cary, George W., assignor.)						
Carpenter, Wilbur M., St. Louis, Mo. Window	348,264	Aug. 31	2554	686	36	967
Carpenter, William A., Sutton, Nebr. Float for transportation-cans	352,910	Nov. 23	1638	440	37	790
Carpenter, William B., Newark, N. J., assignor to Celluloid Novelty Company, New York, N. Y. Game-counter	350,577	Oct. 12	672	183	37	129
Carpenter, William E., *et al.* (See Dilley, Abraham T., assignor.)						
Carpentier, Jules. (See Deprez and Carpentier.)						
Carr, Charles, Hyde Park, Ill. Farina-cooker	337,813	Mar. 16	1255	326	34	1164
Carr, Charles F., Wareham, Mass. Mold for casting traps	343,221	June 8	649	161	35	1133
Carr, Clarence E., Andover, N. H. Hame attachment	341,404	May 4	608	166	35	615
Carr, Clarence E., Andover, N. H. Safety-hook	342,730	May 25	2469	654	35	987
Carr, Ellsworth, assignor of one-half to J. H. Reynolds, Troy, N. Y. Ball-caster	348,887	Sept. 7	473	135	36	1134
Carr, James A., Camden, N. J. Fastening for water-conductors	352,805	Nov. 16	1495	403	37	753
Carr, James W., Richmond, Va. Plow	345,113	July 6	436	112	36	80
Carr, John I., Chicago, Ill. Tool-holder for grindstones	352,037	Nov. 2	446	121	37	542
Carr, Joseph, Elk Falls, Kans. Clothes-drier	338,923	Mar. 30	2801	739	34	1457
Carr, Joseph, Philadelphia, Pa. Rotary fan	339,853	Apr. 13	1094	272	35	201
Carr, Joseph J., Wilkes-Barré, Pa. Chill for use in casting metals	343,559	June 8	1152	290, 291	35	1223
Carr, Louis P. D. (See Johnston and Carr.)						
Carr, Spencer E., Philadelphia, Pa. Burglar-alarm	339,854	Apr. 13	1096	273	35	201
Carr, Washington P., Tazewell, Ga. Cotton-press	347,468	Aug. 17	1391	370	36	737
Carr, William, St. Louis, Mo. Cover for sewing-machine needle-bars	347,089	Aug. 10	853	226	36	629
Carr, William K. (See Willson, Charles C. T., assignor.)						
Carran, Richard B., Ludlow, Ky. Hinge	346,264	July 27	2088	537	36	400
Carre, John L. (See Weaver, Cromwell P., assignor.)						
Carricaburu, Leon B., New York, N. Y. Steam-actuated valve	336,211	Feb. 16	1624	424	34	742
Carrick, Samuel P. (See Snyder, Jacob J., assignor.)						
Carrick, Thomas J., assignor to Snowden & Cowman, Baltimore, Md. Dental head-rest	344,302	June 22	2184	560	35	1425
Carrico, Thomas W., San Antonio, Tex. Construction of privy-vaults and apparatus for use therewith	335,177	Feb. 2	131	33	34	464
Carrico, Thomas W., San Antonio, Tex. Apparatus for use in dry out-houses	338,480	Mar. 23	2165	566	34	1339
Carrico, Thomas W., San Antonio, Tex. Dry out-house	338,826	Mar. 30	2664	701	34	1432
Carrico, Thomas W., San Antonio, Tex. Mold and angle-piece used in constructing concrete walls	340,070	Apr. 13	1388	348, 349	35	254
Carrico, Thomas W., San Antonio, Tex. Box for washing material for concrete	340,484	Apr. 20	1982	509	35	369
Carrigan, Gordon S., *et al.* (See Melson, John T., assignor.)						
Carrigan, William S., *et al.* (See Melson, John T., assignor.)						
Carrington, John T., assignor to himself and B. F. Flenniken, Clay Centre, Kans. Stock or hay frame	341,729	May 11	1054	279, 280	35	712
Carroll, David F., Brooklyn, N. Y. Hose-bridge	352,038	Nov. 2	447	121	37	543
Carroll, Edgar J. (See Carroll, William T. and E. J.)						
Carroll, Edgar J., Worcester, assignor to G. Draper & Sons, Hopedale, Mass. Spindle-support for spinning-machines	350,038	Sept. 28	2057	531	36	1455
Carroll, Edgar J., Worcester, assignor to G. Draper & Sons, Hopedale, Mass. Spindle-support	352,222	Nov. 9	735	196	37	600
Carroll, Edgar J., E. H., and W. T., assignors to Wright Machine Company, Worcester, Mass. Top-roll saddle for spinning-machines	342,778	June 1	7	2, 3	35	1008
Carroll, Edgar J., E. H., and W. T., assignors to Wright Machine Company, Worcester, Mass. Top-drawing-roll and saddle therefor	342,779	June 1	8	3	35	1008
Carroll, Edward, and P. Ryan, Guelph, Ontario, Canada. Supporting-frame for carriage-tops	348,722	Sept. 7	256	69	36	1095
Carroll, Elbert H. (See Carroll, Edgar J., E. H., and W. T.)						
Carroll, John C., Milwaukee, Wis. Exhaust-relief and continuous blast for engines	353,018	Nov. 23	1790	481	37	817
Carroll, Joseph L., and W. H. Creighton, Clarksville, Mo. Caster	339,373	Apr. 6	371	90	35	69
Carroll, Michael, Plankinton, Dak. Ter. Hitching device	352,039	Nov. 2	448	121	37	543
Carroll, Thomas B., Indianapolis, Ind. Air pump and vent	351,358	Oct. 26	1786	469	37	345
Carroll, William T. (See Carroll, Edgar J., F. H., and W. T.)						
Carroll, William T., Worcester, assignor to Eureka Spindle Company, Ayer, Mass. Spindle-bolster	340,657	Apr. 27	2235	586	35	419
Carroll, William T., Worcester, assignor to Sawyer Spindle Company, Boston, Mass. Spindle-bolster	344,303	June 22	2186	561	35	1425
Carroll, William T., Worcester, assignor to G. Draper & Sons, Hopedale, Mass. Spindle-support	344,304	June 22	2187	561	35	1425

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Carroll, William T., Worcester, assignor to G. Draper & Sons, Hopedale, Mass. Spindle-bolster	344,305	June 22	2188	561	35	1426
Carroll, William T., Worcester, assignor to G. Draper & Sons, Hopedale, Mass. Spindle-support for spinning-machines	350,039	Sept. 28	2057	532	36	1455
Carroll, William T., Worcester, assignor to G. Draper & Sons, Hopedale, Mass. Band-tightener for spinning-machines	352,221	Nov. 9	734	196	37	600
Carroll, William T., Worcester, assignor to G. Draper & Sons, Hopedale, Mass. Spindle-support for spinning-frames	352,733	Nov. 16	1399	378	37	736
Carroll, William T. and E. J., Worcester, assignor to Eureka Spindle Company, Ayer, Mass. Spindle-bolster	340,656	Apr. 27	2234	586	35	419
Carruthers, George F., Winnipeg, Manitoba, Canada. Car-coupling	344,164	June 22	1994	511	35	1390
Carruthers, William H., assignor of two-thirds to R. H. Sellew and C. H. Townley, Cincinnati, Ohio. Metallic roofing	341,833	May 11	1186	317	35	738
Carskadon, Thomas R., Keyser, W. Va. Traveling-cap	338,033	Mar. 16	1572	405	34	1219
Carsley, George F., Maysville Centre, Me. Transplanter	344,814	July 6	15	4	36	5
Carson, James I. (See Brooks, Heman P., assignor.)						
Carson, James W., Philadelphia, Pa., and F. P. Harned, Camden, N. J., assignors to said Carson. Manufacture of blocks of bicarbonate of soda	338,924	Mar. 30	2802	.....	34	1457
Carson, John B., *et al.* (See Barlett, Henry F., assignor.)						
Carson, Lucius A., Uniontown, Pa. Self-binding harvester	352,677	Nov. 16	1326	357	37	720
Carson, Robert J., assignor of one-third, by mesne assignments, to Union Hydraulic Drain Tile Company, Omaha, Nebr. Drain-tile-making machine	352,448	Nov. 9	1020	275	37	657
Carstensen, Ingwer A. (See Carstensen, Peter C. and I. A.)						
Carstensen, Peter C. and I. A., Walnut, Iowa. Harrow	353,440	Nov. 30	2402	642	37	940
Carswell, Matthew C., Brooklyn, N. Y. Movable platform for railway-stations, &c	350,232	Oct. 5	188	54	37	39
Carter, Anson A., Newark, N. J. Bicycle	354,535	Dec. 21	1291	344	37	1256
Carter, Benjamin F., Cleveland, Ohio. Picker-staff check for looms	349,979	Sept. 28	1984	512	36	1441
Carter, Ezra W., Cohoes, N. Y. Shirt board or hanger	336,290	Feb. 16	1749	457	34	762
Carter, Foster, Shreveport, La. Fan attachment for sewing-machines	338,925	Mar. 30	2802	739	34	1457
Carter, George, Le Mars, Iowa. Draft attachment for wheeled vehicles	337,376	Mar. 9	666	174	34	1056
Carter, James, Lockport, N. Y. Tinner's fire-pot	336,893	Mar. 2	11	3	34	929
Carter, James O., Peoria, Ohio. Fence	339,855	Apr. 13	1097	273	35	201
Carter, John B. (See McNiel and Carter.)						
Carter, John B. (See Moore and Carter.)						
Carter, John T., North Danville, Va. Machine for making barrel-heads	338,926	Mar. 30	2803	739	34	1457
Carter, John W., Brooklyn, N. Y. Cell for electric batteries	337,045	Mar. 2	220	58	34	966
Carter, John W., Jr., Brooklyn, N. Y. Manufacture of rubber battery-cells	341,552	May 11	811	216	35	663
Carter, Rice & Co. (See Daniels, Henry C., assignor.)						
Carter, Robert A., assignor of one-half to J. M. Bailey, Pittsburg, Pa. Flanging-machine	350,412	Oct. 5	405	116	37	81
Carter, Robert E., Jr. (See Fletcher, Augustus, assignor.)						
Carter, Travis, Seymour, Ind. Dovetailing-machine	347,418	Aug. 17	1313	350	36	723
Carter, Thomas, San Francisco, Cal. Logging-truck	341,877	May 18	1251	335	35	757
Carter, Thomas, San Francisco, Cal. Car-truck	353,286	Nov. 30	2177	583	37	899
Carter, Thomas H. (See Tyler and Carter.)						
Carter, William F. (See Adams and Carter.)						
Carter, William H., and J. W. Magill, assignors of one-third to S. D. Wallace, Oregon, Ill. Sash-weight	342,181	May 18	1653	442	35	831
Carter, William S., and F. C. Churchill, Lebanon, N. H. Suspender-buckle and button-hole clamp	339,371	Apr. 6	372	90	35	69
Cartier, Jean P. F., Doussard, France. Oil-press	338,034	Mar. 16	1563	405	34	1219
Carton, Furnace Company. (See Jones, John B., assignor.)						
Carty, Jerome. (See Lemaire, Jean T., assignor.)						
Carty, John J., Cambridge, assignor to New England Telephone and Telegraph Company, Boston, Mass. Telephone and telegraph circuit	348,512	Aug. 31	2897	779	36	1033
Carty, John J., Cambridge, assignor to New England Telephone and Telegraph Company, Boston, Mass. Switching apparatus and test-circuit for telephone-exchanges	353,350	Nov. 30	2264	606	37	913
Carvalho, Solomon N., New York, N. Y. Air heating and drying apparatus	340,760	Apr. 27	2379	627	35	444
Carver Cotton Gin Company. (See Latham, E. Austin, assignor.)						
Carver, George H. (See Dixon and Carver.)						
Carver, Henry I., Ludlow, Mass. Butter mold and stamp	351,042	Oct. 19	1357	356 / 357	37	260
Carver, Jonas N., Lebanon, Tenn. Cistern-faucet	341,730	May 11	1056	280	35	712
Cary, Alanson, New York, N. Y. Sash-fastener	341,638	May 11	928	246	35	687
Cary, Charles H., Bristol, R. I. Rotary engine and pump	346,721	Aug. 3	341	93	36	527
Cary, Charles H., Bristol, R. I. Rotary pump	346,722	Aug. 3	343	93	36	528
Cary, Charles P., Pekin, Ill. Sled	345,829	July 20	1483	384	36	278
Cary, Fred A. (See Richardson, George, assignor.)						
Cary, George W., assignor to E. Carpenter & Sons, Providence, R. I. Wagon-brake	346,723	Aug. 3	343	93	36	528
Cary, James C., New York, N. Y. Household furniture	345,769	July 20	1402	363	36	265
Cary, Walter M., San Francisco, Cal. Steam-actuated valve	334,108	Jan. 12	853	235	34	165
Casaday, George B., Hudson, Ind. Plow-jointer	338,481	Mar. 23	2166	566 / 567	34	1339
Casaday, William L., South Bend, Ind. Plow	345,276	July 13	665	168	36	126
Case, Augustus L., Bristol, R. I. Flower-press	346,640	Aug. 3	245	67	36	508
Case, Constantius G., Battle Creek, Mich. Thrashing-machine	350,290	Oct. 5	257	74, 75	37	53
Case, Estella, New York, N. Y. Rubber sound-deadener and packing-band	350,477	Oct. 12	533	149	37	106
Case, Francis M., Denver, Colo. Sash-fastener	351,575	Oct. 26	2141	554	37	410
Case, Frederick L. (See Case, Henry F. and F. L.)						
Case, George E., Denver, Colo. Feed mechanism for rock-drills	335,891	Feb. 9	1146	305	34	653
Case, George F., Stanton, Mich. Pump	339,617	Apr. 13	768	190	35	142
Case, Henry F., South Manchester, Conn. Machine for sizing and coloring paper and other fabrics	346,894	Aug. 10	566	151 / 152	36	577
Case, Henry F. and F. L., South Manchester, Conn. Paper-finishing machine	335,562	Feb. 9	664	175	34	566
Case, Homer W., and J. Dushane, South Bend, Ind. Paper box	335,178	Feb. 2	132	33	34	464
Case, John B. S. (See Grush and Case.)						
Case, John M., assignor to Case Manufacturing Company, Columbus, Ohio. Manufacturing cornmeal	344,246	June 22	2105	538	35	1411
Case, John M., assignor to Case Manufacturing Company, Columbus, Ohio. Manufacturing cornmeal and buckwheat-flour	344,518	June 29	2490	641	35	1487
Case, John W., Clyde, Ohio. Washing-machine	340,418	Apr. 20	1886	484	35	351
Case Manufacturing Company. (See Case, John M., assignor.)						
Case, Orlando, *et al.* (See Snowberger, Jacob, assignor.)						
Case Thrashing Machine Company, J. I. (See Walrath, Jesse, assignor.)						
Case & Willard Thresher Company. (See Gilkeson, Thomas E., assignor.)						
Case, Willard E., Auburn, N.Y. Apparatus for converting heat energy into electrical energy	344,345	June 29	2245	577	35	1443

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Case, Willard E., Auburn, N. Y. Regenerating exhausted galvanic cells	344,346	June 29	2248	.....	35	1443
Case, Willard E., Auburn, N. Y. Converting heat energy into electrical energy	344,347	June 29	2249	.....	35	1443
Case, William W., Baptistown, N. J. Guide-board	354,303	Dec. 14	968	257	37	1189
Casebolt, Henry, San Francisco, Cal. Grip for cable railways	348,380	Aug. 31	2708	727	36	998
Casebolt, Henry, San Francisco, Cal. Grip for cable railways	349,479	Sept. 21	1295	336	36	1302
Casey, Dennis J. (See Torrey and Casey.)						
Casey, Frederick A., Revere, Mass. Car-coupling	343,223	June 8	651	162	35	1134
Casey, Frederick A., Boston, Mass. Car-coupling	344,815	July 6	16	4.5	36	5
Casey, Jeremiah, New York, N. Y. Wood-working machine	353,539	Nov. 30	2547	679 / 680	37	567
Casey, John, Boston, Mass. Dummy piano	344,165	June 22	1995	511	35	1390
Casey, John, Boston, Mass. Upright piano-forte	355,001	Dec. 28	1957	516	37	1391
Casey, John, Lawler, Iowa. Draft-equalizer	351,740	Nov. 2	13	4	37	461
Casey, John, Jersey City, N. J. Check-receiver	353,051	Nov. 23	1849	499	37	827
Casey, Patrick, *et al.* (See O'Riordan, James, assignor.)						
Cash, George. (See Eaton and Cash.)						
Casho, Joseph, Thurlow, Pa. Governor	335,270	Feb. 2	261	69	34	487
Casho, Joseph, Thurlow, Pa. Governor	340,978	May 4	11	3	35	507
Casner, John, Cherry Flats, Pa. Vehicle-seat lock	345,672	July 20	1263	327	36	240
Cason, George W., Glasgow, Mo. Stretching fence-wire and other strands	338,035	Mar. 16	1564	405	34	1219
Caspar, Alberta M. F., London, England, assignor of one-half to E. Pearle, New York, N. Y. Imitating stained glass	340,485	Apr. 20	1984	509	35	369
Caspary, Charles F. B., assignor of one-half to S. L. Theller, San Francisco, Cal. Fruit-drier	342,243	May 18	1733	460 / 461	35	847
Cass, Arad F., assignor of one-half to E. M. Cass, Twin Bluffs, Wis. Sulky-plow	334,348	Jan. 12	1221	329	34	234
Cass, Charles, Ottumwa, Iowa. Automatic switch mechanism for railways	343,699	June 15	1357	338	35	1266
Cass, Eugene M. (See Cass, Arad F., assignor.)						
Cass, George W., *et al.* (See Farrar and Mills, assignors.)						
Cass, James, Cayucos (Landing, Cal. Preserving piles	349,835	Sept. 28	1794	463	36	1405
Cassaday, William J., Finchford, Iowa. Device for converting motion	348,107	Aug. 24	2317	621	36	917
Cassan, Mathew S. (See Gillespie and Cassan.)						
Cassel Gold Extracting Company. (See Cassel, Henry R., assignor.)						
Cassel, Henry R., London, county of Middlesex, England, assignor to Cassel Gold Extracting Company, (limited,) Glasgow, Scotland. Extracting gold, &c., from ores	351,576	Oct. 26	2142	555	37	410
Cassella & Co., Leopold. (See Hoffmann and Weinberg, assignors.)						
Cassidy, Jacob H., and B. H. Oldfield, Leavenworth, Kans. Tongue-support for vehicles	336,382	Feb. 16	1864	488	34	785
Castagneto, Gaetano S., Dannemora, N. Y. Sad-iron	337,555	Mar. 9	929	238	34	1100
Castell, James, Blue Rapids, Kans. Ice-receptacle for refrigerators	335,425	Feb. 9	472	132	34	526
Castell, James, Chicago, Ill. Ice-tank for refrigerators, refrigerator-buildings, &c	348,450	Aug. 31	2810	755	36	1017
Casterlin, George C., and F. D. Mosher, Dalton, Pa. Pruning implement	336,383	Feb. 16	1865	489	34	786
Castle, George P. (See Dower, James A., assignor.)						
Castle, James, Toronto, Ontario, Canada. Advertising-machine	340,285	Apr. 20	1710	435 / 436	35	317
Castle, Oliver H., Indianapolis, Ind. Ice-machine	338,482	Mar. 23	2167	567 / 568	34	1339
Castle, Orlando L., Upper Alton, Ill. Nut-lock	334,070	Jan. 12	798	219	34	156
Castle, Orlando L., Upper Alton, Ill. Nut-lock	342,327	May 25	1881	498	35	881
Castle, Samuel D., assignor of one-half to C. E. Williams and E. W. Dewhirst, Bridgeport, Conn. Cement pipe and earthenware	343,944	June 15	1671	429	35	1327
Castle, William H., Geneva, Ohio. Carpet-sweeper	346,641	Aug. 3	245	67	36	508
Castner, Hamilton Y., assignor of five-eighths to J. H. Booth, New York, and H. Booth, Poughkeepsie, N. Y. Manufacture of sodium and potassium	342,897	June 1	171	.....	35	1037
Castro, Angel, New York, assignor of one-half to G. A. Saward, Brooklyn, N. Y. Railway-signal	338,927	Mar. 30	2804	740	34	1458
Caswell, Erastus. (See Goodwin, Oliver H., assignor.)						
Catchpole, Alfred, Geneva, N. Y. Steam-boiler	354,392	Dec. 14	1081	290	37	1211
Cate, Octavius, Boston, Mass. Eraser	339,856	Apr. 13	1098	273	35	201
Cate, William H. M., *et al.* (See Breed, Zephaniah, assignor.)						
Cately, Shepard W., assignor of one-half to Hitchcock Manufacturing Company, Cortland, N. Y. Reach-coupling for carriages	349,302	Sept. 21	1036	265	36	1252
Catlin, Charles M., Chicago, Ill. Steamboat	344,621	June 29	2621	679	35	1514
Catlin, Charles M., Chicago, Ill. Construction of vessels	344,622	June 29	2625	680	35	1514
Catlin, Charles M., Chicago, Ill. Steering-gear for vessels	344,623	June 29	2627	6·0	35	1515
Catlin, Frederick, assignor to M. Lowenstein, New York, N. Y. Funnel	334,564	Jan. 19	1521	407	34	294
Catrari, Antonio, assignor to himself and B. Costa, Brooklyn, N. Y. Marine railway	353,121	Nov. 23	1940	520	37	846
Caudel, William, assignor of two-thirds to D. B. Mory, Sr., and D. B. Mory, Jr., Wilmington, Ohio. Truss	343,945	June 15	1672	429	35	1327
Caulk, Henry T. (See Walker and Caulk.)						
Caunter, George, *et al.* (See Stevens, James S., assignor.)						
Cavalli, Andrea, San Francisco, Cal. Nailing-machine for boots or shoes	340,556	Apr. 27	2090	539	35	395
Cavanagh, John M. (See Hearan, James C., assignor.)						
Cavanagh, Joseph, Long Rapids, Mich. Sand-band	351,162	Oct. 19	1516	397	37	290
Cavanaugh, Hugh P., assignor of one-third to R. Bryant, Adrian, Mich. Bolting-reel	342,283	May 18	1796	476 / 477	35	858
Cavanaugh, Hugh P., assignor of one-third to R. Bryant, Adrian, Mich. Brush for bolting-reels	342,284	May 18	1801	477 / 478	35	858
Cavenaugh, Robert, assignor of one-half to C. S. Schofield, Philadelphia, Pa. Loom-shuttle	342,065	May 18	1508	403	35	804
Cawley, Daniel C., and C. P. Wall, Pittsburg, Pa. Window-ventilator	347,158	Aug. 10	946	252	36	647
Cawley, John. (See Deno and Reardon, assignors.)						
Cawley, Samuel, Kendallville, Ind. Wire-forming device	344,247	June 22	2106	539	35	1411
Cawley, Samuel, Kendallville, Ind. Head-rest	344,248	June 22	2107	539	35	1411
Cayce, Henry P. (See Bullock and Cayce.)						
Cayley, Claud T. (See Higgins, Edward S., assignor.)						
Cazier, Marion H., Chicago, Ill. Garment-hanger	347,569	Aug. 17	1532	407	36	764
Cazier, Marion H., Burlingame, Kans. Wardrobe attachment	347,687	Aug. 17	1716	458	36	798
Cellerier, Louis J. H., Paris, France. Carbon photography for colored impressions	335,893	Feb. 9	1150	.....	34	654
Celluloid Manufacturing Company. (See Lefferts and Hyatt, assignors.)						
Celluloid Manufacturing Company. (See Pond, Frank V., assignor.)						
Celluloid Novelty Company. (See Carpenter, William B., assignor.)						
Cerruti, Antonio, San Francisco, Cal. Can-filling machine	341,996	May 18	1401	374	35	784
Cevor, Charles, Waco, Tex. Door-check	342,426	May 25	2036	537	35	907
Chable, August F., assignor of one-fourth to J. C. Price, Evansville, Ind. Sad-iron	354,685	Dec. 21	1519	403	37	1296

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Chadsey, John N., assignor to E. Kendall, A. B. Gardenier, A. H. Farrar, and S. G. Chadsey, Valatie, N. Y. Apparatus for making satchel-bottom paper bags	352,118	Nov. 9	573	152, 153, 154	37	573
Chadsey, S. G., *et al.* (See Chadsey, John N., assignor.)						
Chadwick, Charles N., Brooklyn, N. Y. Stocking-supporter	350,291	Oct. 5	260	75	37	54
Chadwick, Frank E., assignor to F. E. C. Medicine Company, Rochester, N. Y. Remedy for kidney diseases	350,867	Oct. 12	1088	.....	37	206
Chadwick, John. (See Bratby and Chadwick.)						
Chaffee, Reuben S., Springfield, Ill., assignor, by mesne assignments, of one-tenth to Winchester Repeating Arms Company, New Haven, Conn. Breech-loading fire-arm	342,328	May 25	1882	498, 499	35	881
Challinor, David, Pittsburg, Pa. Manufacture of variegated glassware	342,898	June 1	173	.....	35	1037
Challiss, Paul. (See Mock, William L., assignor.)						
Challoner, John. (See Bridgman and Challoner.)						
Challoner, John, Sr., Omro, Wis. Welt-guide for sewing-machines	338,928	Mar. 30	2806	740	34	1458
Chalon, Paul. (See Barbe, Fauvel, and Chalon.)						
Chamberlain, C. W., *et al.* (See Messer, Daniel F., assignor.)						
Chamberlain, Charles S., deceased, (S. C. Chamberlain, administratrix,) Treverton, and J. Miller, Reading, Pa. Vehicle-brake	341,093	May 4	160	48	35	534
Chamberlain, Charles S., deceased, (S. C. Chamberlain, administratrix,) Treverton, Pa. Draft mechanism for vehicles	341,094	May 4	161	48	35	534
Chamberlain, Edmund D., Westfield, N. J. Ink-pad holder	340,761	Apr. 27	2381	627	35	445
Chamberlain, George A., *et al.* (See Brown, Edward L., assignor.)						
Chamberlain, Hiram S. (See Sears, William G., assignor.)						
Chamberlain, Marcus W., assignor to E. A. and F. S. Ely, Branchville, N. J., and P. A. Ely, Madison, N. Y. Elevator and carrier	344,941	July 6	198	51	36	37
Chamberlain, Roscoe. (See Austin and Chamberlain.)						
Chamberlain, Sabina C., administratrix. (See Chamberlain and Miller.)						
Chamberland, Charles E., Paris, France. Filter	336,089	Feb. 16	1429	377	34	769
Chamberland, Charles E., Paris, France. Filtering compound	336,385	Feb. 16	1869	.....	34	7[illegible]
Chamberland, Charles E., Paris, France. Filtering compound	336,386	Feb. 16	1870	.....	34	787
Chamberland, Damas M., Duluth, Minn. Fabric-turfing implement	351,963	Nov. 2	339	94	37	521
Chamberlayne, Edward L., Buffalo, N. Y. Compound spring-balance	343,946	June 15	1172	429	35	1327
Chamberlin, Charles W., Lawark, Ill. Carpet-rag attachment for sewing-machines	344,348	June 29	2251	578	35	1443
Chamberlin, Frank P., Carlisle, Ohio. Shaft-support for vehicles	335,339	Feb. 2	358	93	34	595
Chamberlin, Franklin L., Cleveland, Ohio. Cartridge-loading machine	336,384	Feb. 16	1866	489, 490	34	786
Chamberlin, Levi, and A. S. Turnbull, Ypsilanti, Mich. Rotary steam-engine	346,531	Aug. 3	105	28	36	480
Chambers, Arthur, New York, N. Y. Boot or shoe	347,090	Aug. 10	854	226	36	629
Chambers, James M. (See Meyer and Chambers.)						
Chambers, James M., St. Louis, Mo., assignor of one-half to St. Louis Cooperage Company. Apparatus for heating and drying barrels	348,888	Sept. 7	474	125	36	1134
Chambers, John D. (See Kane, Bart, assignor.)						
Chambers, Robert E. (See Summit, Christian A., assignor.)						
Chambers, Thaddeus, Philadelphia, Pa. Hoisting device for sail-boats	344,306	June 22	2189	561, 562	35	1426
Chambers, Thaddeus, assignor of one-half to D. K. Gilbert, Philadelphia, Pa. Steering apparatus	336,291	Feb. 16	1750	458	34	763
Chambers, William B., assignor of one-half to W. J. Quinlan, Decatur, Ill. Check-row corn-planter	334,416	Jan. 19	1310	355	34	257
Chamness, Eli M. (See Borchers and Chamness.)						
Champion, Antoine J., *et al.* (See Amouroux, Elie, assignor.)						
Champion Bar and Knife Company. (See Webster, John F., assignor.)						
Champion, Charles. (See Metcalfe, John, assignor.)						
Champion, John P., assignor of two-thirds to J. L. Green and J. A. Smith, Gainesville, Ga. Nut-lock	333,502	Jan. 5	8	3	34	4
Champion, John P., assignor of one-half to R. C. Little & Co., Gainesville, Ga. Car-brake	336,090	Feb. 16	1430	378	34	709
Champion Safety Lock and Novelty Company. (See Rosentreter, Frank L., assignor.)						
Champion Shoe Burnishing Machine Company. (See Parkhurst, Emmons M., assignor.)						
Champlin, Amos F. (See Heath and Champlin.)						
Champlin, Henry W., Chelsea, Mich. Hoisting apparatus	338,929	Mar. 30	2807	740	34	1458
Chance, Oliver K., Osakis, Minn. Force-pump	340,092	Apr. 20	1423	360	35	265
Chancellor, Joshua G., and E. C. Henry, Bloomington, Ill.; said Chancellor assignor to said Henry. Hand fire-engine	345,571	July 13	1105	282, 283	36	204
Chandler, E. Bruce, *et al.* (See Firman, Leroy B., assignor.)						
Chandler, F. M. (See Eubanks, Thomas J., assignor.)						
Chandler, Frank B. (See Fillebrown and Chandler.)						
Chandler & Price. (See Price, William H., Jr., assignor.)						
Chandler, Theophilus P., Jr., Philadelphia, Pa. Electric or other railway	346,465	Aug. 3	18	5	36	464
Chandler, Theophilus P., Jr., Philadelphia, Pa. Railway	346,724	Aug. 3	345	94	36	528
Channell, John D., Nevada City, Cal. Belting	344,363	June 29	2549	651	35	1429
Channell, John D., Nevada City, Cal. Ore-concentrator	347,993	Aug. 24	2158	574	36	876
Chantrell, John, Reading, Pa. Tool-handle	343,224	June 8	652	162	35	1134
Chantrell, John, Reading, Pa. Tool-tang	343,225	June 8	674	163	35	1134
Chantrell, John, assignor to Reading Hardware Company, Reading, Pa. Tool-handle	337,242	Mar. 2	480	126	34	1014
Chantrell, John, assignor to Reading Hardware Company, Reading, Pa. Brace-chuck	337,243	Mar. 2	481	127	34	1015
Chantrell, John, assignor to Reading Hardware Company, Reading, Pa. File-handle	337,244	Mar. 2	482	127	34	1015
Chantrell, John, assignor to Reading Hardware Company, Reading, Pa. File-handle	337,245	Mar. 2	483	127	34	1015
Chantrell, John, assignor to Reading Hardware Company, Reading, Pa. Nail-extractor	346,426	July 27	2314	596	36	432
Chaplin, Charles O., Hartland Corners, N. Y. Sand-band for wheel-hubs	354,181	Dec. 14	791	210	37	1137
Chaplin, Orril R., Boston, Mass. Shoe-nail	335,563	Feb. 9	666	175	34	566
Chaplin, Orril R., Boston, Mass. Shoe-nailing machine	343,363	June 8	876	221, 222	35	1174
Chapman, A. A. (See Gifford, George T., assignor.)						
Chapman & Armstrong Manufacturing Company. (See Chapman and Dalton, assignors.)						
Chapman, Charles H., Groton, assignor to Eureka Spindle Company, Ayer, Mass. Spindle and bobbin	340,093	Apr. 20	1424	360	35	266
Chapman, Charles H., Groton, assignor to Eureka Spindle Company, Ayer, Mass. Spindle-bolster	340,658	Apr. 27	2235	586, 587	35	419
Chapman, Charles H., Groton, assignor to Eureka Spindle Company, Ayer, Mass. Spindle-bolster	341,995	May 18	1399	374	35	784
Chapman, Frederick, Brooklyn, N. Y. Street-washer	341,405	May 4	609	166	35	615
Chapman, George E., London, England. Scrap-album	335,683	Feb. 9	834	221	34	596
Chapman, George P., Evanston, Wyo. Ter. Track-clearer	347,636	Aug. 10	752	200	36	614
Chapman, Horace P., assignor of one-third to S. M. Jones, Akron, Ohio. Middlings-purifier	345,954	July 20	1655	427	35	310

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Chapman, Jay W. (See Waterman and Chapman.)						
Chapman, John C., Boston, Mass. Metal-bending machine	350,115	Oct. 5	25	7	37	8
Chapman, John C., Boston, Mass. Metallic packing for piston-rods	350,116	Oct. 5	26	8	37	8
Chapman, Joseph A., assignor of one-third to T. E. Ryan, Norwich, Conn. Kink-preventer for silk-spinning machinery	350,345	Oct. 5	327	93	37	67
Chapman, Joseph L., Haddonfield, N. J. Stop-off valve for gas	334,639	Jan. 19	1623	432	34	314
Chapman, Joseph L., Haddonfield, N. J. Automatic stop-valve	334,640	Jan. 19	1624	432, 433	34	314
Chapman, Matthew T., Aurora, Ill. Tube-well and pumping mechanism for the same	349,339	Sept. 21	1076	277	36	1260
Chapman, Samuel A., Waterbury, assignor to J. C. Hammond, Jr., Rockville, and T. E. King, Westport, Conn. Catch-plate for shoe-clasps	346,983	Aug. 10	686	182	36	600
Chapman, Samuel A., and D. F. Dalton, assignors to Chapman & Armstrong Manufacturing Company, Waterbury, Conn. Suspender-buckle	335,056	Jan. 26	2175	578	34	422
Chapman, Thomas L., Richmond, Va., assignor of one-half to C. Lloyd, Williamsport, Pa. Lifting-jack	336,793	Feb. 23	2429	639	34	894
Chapman, William J., Rutland, Vt. Steam-boiler	351,686	Dec. 21	1521	403	37	1297
Chappée, Armand, Le Mans, France. Portable baking-oven	336,550	Feb. 23	2095	551	34	833
Chappel, Lester H. (See Piccard and Chappel.)						
Chappell, Charles E. (See Nicolls, Charles H., assignor.)						
Chappell, Clifton T., Macon, Ga. Car-coupling	340,762	Apr. 27	2381	627, 628	35	445
Charbonneau, Treffié. (See Phillip, Bouchard, and Charbonneau.)						
Charbonnier, Lucie. (See Paillot and Charbonnier.)						
Chard, Richard J., New York, N. Y. Lubricating compound	344,079	June 22	1879	.....	35	1370
Charles, Edgar A. (See Smith and Charles.)						
Charles, James, Ridgeville, Ind. Electro-therapeutic appliance	355,059	Dec. 28	2042	537	37	1406
Charles, Philip H., *et al.* (See Shank, Charles A., assignor.)						
Charles, Thomas. (See Nutting, Samuel E., assignor.)						
Charlton, James, and H. C. Lynch, assignors of one-third to W. F. Himstedt, Houston, Tex. Funnel attachment	346,265	July 27	2090	538	36	400
Charman, Edmund, Boston, Mass. Apparatus for facilitating copying of pictures	353,919	Dec. 7	388	102	37	1078
Charmantier, Léon, and S. De Cazenave, Paris, France. Manufacture of stained-glass windows	346,984	Aug. 10	686	.....	36	600
Charpantier, Jules V., New Orleans, La. Apparatus for facilitating the multiplication of numbers	343,796	June 15	1491	376	35	1291
Charpantier, Jules V., New Orleans, La. Calculator	344,624	June 29	2629	680	35	1515
Charter, John, Sterling, Ill. Gas-engine	335,564	Feb. 9	667	176	34	567
Chase, Andrew J., Boston, Mass. Refrigerating buildings and vessels	346,354	July 27	2206	566	36	422
Chase, Andrew J., Boston, and C. P. Smith, Fitchburg, Mass. Method of and means for refrigeration	348,824	Sept. 7	378	103	36	1118
Chase, Charles. (See Sargent and Chase.)						
Chase & Co. (See Chase, Oliver R., assignor.)						
Chase, Edwin R. (See Thuston and Chase.)						
Chase, Enoch, Milwaukee, Wis. Brick or other kiln	338,036	Mar. 16	1565	406	34	1220
Chase, Frank, Boston, Mass. Lasting tack-strip	337,662	Mar. 9	1055	271	34	1123
Chase, Frank, Boston, Mass. Nipper or wiper for lasting-machines	337,924	Mar. 16	1400	363	34	1191
Chase, Frank, Boston, Mass. Lasting-machine for boots or shoes	337,925	Mar. 16	1402	363, 364	34	1191
Chase, Frank, Boston, Mass. Pegging-machine	338,930	Mar. 30	2808	740, 741	34	1458
Chase, Frank, Boston, Mass. Lasting-machine	340,860	Apr. 27	2506	660	35	468
Chase, George C., New York, N. Y. Bin	346,191	July 27	1920	511	36	379
Chase, Herbert G., Fitchburg, Mass. Metallic eyeglass-case	355,203	Nov. 23	2067	532	37	871
Chase, Horace P., New Bedford, Mass. Spindle-bearing for spinning-machines	354,887	Dec. 28	1802	476	37	1362
Chase, J. Herbert, Brooklyn, N. Y. Valve for organ-bellows	345,673	July 20	1264	327	36	240
Chase, J. Herbert, Brooklyn, assignor to Mechanical Orguinette Company, New York, N. Y. Valve for musical instruments	335,271	Feb. 2	263	69	34	487
Chase, J. Herbert, Brooklyn, assignor to Mechanical Orguinette Company, New York, N. Y. Mechanical musical instrument	335,272	Feb. 2	263	69	34	487
Chase, James. (See Dexter and Chase.) (Reissue.)						
Chase, John W., assignor to F. A. Holcomb, Grand Rapids, Mich. District-telegraph	346,355	July 27	2207	566	36	422
Chase, L. W., *et al.* (See Messer, Daniel F., assignor.)						
Chase, Nehemiah, *et al.* (See Harty, William, assignor.)						
Chase, Norman F., Montrose, N. Y. Automatic attachment for locomotives	343,362	June 8	875	220, 221	35	1173
Chase, Oliver R., Boston, Mass. Banjo	343,564	June 15	1167	294	35	1234
Chase, Oliver R., assignor to Chase & Co., Boston, Mass. Mixing-machine	343,565	June 15	1168	294	35	1234
Chase, Richard F. M., New York, N. Y. Belting for machinery	336,990	Mar. 2	143	39	34	951
Chase, Sanford C., Boston, Mass. Garment-supporter	351,163	Oct. 19	1517	397	37	291
Chase, Sidney A., assignor of one-half to W. R. Mapes, Evart, Mich. Telegraphic relay	342,576	May 25	2239	591	35	944
Chase, Sidney A., assignor of one-half to W. R. Mapes, Evart, Mich. Fire-alarm signal-box	345,572	July 13	1106	283	36	205
Chase, Sidney A., assignor of one-half to W. R. Mapes, Evart, Mich. Fire-alarm-telegraph system	350,804	Oct. 12	968	267, 268	37	188
Chase, Wellington, Coldwater, Mich. Sleigh-body	342,899	June 1	174	43	35	1037
Chase, William D., Hackensack, N. J. Clock	337,377	Mar. 9	667	174	34	1056
Chatelard, Arthur. (See De Villeroche and Chatelard.)						
Cheek, Thomas H., Marietta, Ga. Water-gage	353,920	Dec. 7	389	103	37	1078
Cheeseman, Sherwood E., Kansas City, Mo. Cartridge-loading implement. (Reissue)	10,732	July 27	2373	608	36	452
Cheesman, Sarah E., Snow Shoe, Pa. Catch for breastpins	353,401	Nov. 30	2347	626	37	929
Cheever, Charles A., trustee. (See Woolson, Orosco C., assignor.)						
Cheever, John H. (See Smith, John J. C., assignor.)						
Cheever, John H. (See Smith, John J. C., and M., assignors.)						
Cheever, John O., assignor to himself and H. T. Litchfield, Boston, Mass. Rotary pump	349,270	Sept. 14	1003	256	36	1237
Cheevers, John M. (See Lord and Cheevers.)						
Chemical Electric Light and Power Company. (See Goldner, William C., assignor.)						
Chemical Electric Light and Power Company. (See Jarriant, Benoit, assignor.)						
Chemical Hand Fire Extinguisher Company. (See Ballou, Russell A., assignor.)						
Cheney, Charles W., Athol, Mass. Lawn-mower	342,900	June 1	174	44	35	1037
Cheney, Flavius, assignor to American Globe and School Supply Company, Seneca Falls, N. Y. Blackboard-eraser	345,830	July 20	1485	385	36	279
Cheney, Joseph W., Palmer, Mass. Harness attachment	351,851	Nov. 2	180	49	37	492
Cheney, Norman H., and J. F. Boylen, Taunton, Mass. Saddle for top-rolls	333,600	Jan. 5	137	37	34	28
Cheney, Walter L., Hartford, Conn. Injector	344,475	June 29	2421	623	35	1475

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cheney, Walter L., Philadelphia, Pa. Scale for measuring gas pipe and fittings	344,721	June 29	2746	712	35	1536
Chenoweth, Lewis F., Millerton, Kans. Hog-pen	349,480	Sept. 21	1296	337	36	1302
Cherrier, Francis E., Francestown, N. H., assignor of one-half to G. H. Bixby, Boston, Mass. Horseshoeing-stand	339,375	Apr. 6	373	91	35	69
Cherry, Felix F., assignor to M. F. Cherry, Stonewall, N. C. Planter	341,452	May 11	677	182	35	638
Cherry, John A., Roads, Mo. Corn-planter	334,746	Jan. 26	1774	472	34	350
Cherry, Mary F. (See Cherry, Felix F., assignor.)						
Chesebro, Frank A., Boston, Mass. Inhaler	351,577	Oct. 26	2144	555	37	410
Chesebro, James F., Minneapolis, Minn. Vaporizing-inhaler	349,065	Sept. 14	755	193	36	1188
Chesebrough, Robert A., New York, N. Y. Steam generator and superheater	344,476	June 29	2422	623	35	1475
Cheshire Watch Company. (See Yarrington, Charles H., assignor.)						
Chesnut, Oliver W. (See Scott and Chesnut.)						
Chester, Ellis M., *et al.* (See Marker, Frank H., assignor.)						
Chester, Richard, Lake View, Ill. Water cooler and filter	354,687	Dec. 21	1521	404	37	1297
Chester, Samuel M., Cincinnati, Ohio. Carriage-top	335,426	Feb. 2	473	122	34	526
Chester, Samuel M., Cincinnati, Ohio. Vehicle running-gear	347,159	Aug. 10	947	253	36	648
Chester, Stephen M., Elizabeth, N. J., assignor to C. Rockhill, New York, N. Y. Coating paper and other material with wax	353,122	Nov. 23	1941	520	37	846
Cheswright, Charles, Leith Villa, Parkhurst Road, County of Middlesex, England. Machine for perforating the sides of capsules for bottles	345,365	July 13	784	198	36	147
Chew, Matthias M., Williamstown, N. J. Cranberry-picker	334,565	Jan. 19	1521	407	34	294
Chew, Matthias M., Williamstown, N. J. Pump	350,805	Oct. 12	1001	268	37	189
Chew, Rebecca T., Girard, Ohio. Safety button-fastener	342,182	May 18	1653	442	35	832
Chezom, Andrew, Sergeant Bluff, Iowa. Weed-cutter	350,117	Oct. 5	27	8	37	8
Chicago Glycerine Company. (See Porter, Charles L., assignor.)						
Chicago Novelty Tin Can Manufacturing Company. (See Petterson, Ludwig, assignor.)						
Chicago Raw Hide Manufacturing Company. (See Krueger, August C., assignor.)						
Chicago Stamping Company. (See Flint, William W., assignor.)						
Chichester, Lewis S., assignor to C. M. E. Schroeder, Jersey City, N. J. Air-compressor	333,994	Jan. 12	682	186, 187	34	136
Chickering, Charles F., New York, N. Y. Piano-forte	350,292	Oct. 5	261	75	37	54
Child, Frank E., assignor to H. Howard, Providence, R. I. Button	348,658	Sept. 7	174	47	36	1078
Child, Franklin D., West Newton, Mass. Cotton-gin	349,692	Sept. 28	1572	408	36	1364
Child, Frederick W., Greenwich, Conn. Tabular calculator	343,566	June 15	1169	294, 295	35	1234
Child, Frederick W., Greenwich, Conn. Engine-counter	351,164	Oct. 19	1517	397	37	291
Child, George F., Springfield, Ohio. Adjustable chair	336,387	Feb. 16	1871	490, 491	34	787
Children, Edwin, Danleith, Ill. Cultivator	334,641	Jan. 19	1625	433	34	314
Childs & Co., J. Morris. (See Childs and Smith, assignors.)						
Childs, J. Morris, Utica, N. Y. Harrow	346,266	July 27	2091	538	36	400
Childs, J. Morris, Utica, N. Y. Harrow	348,544	Sept. 7	5	2	36	1049
Childs, J. Morris, and D. B. Smith, assignors to J. M. Childs & Co., Utica, N. Y. Mechanism for hanging and centering grindstones and frames therefor	350,972	Oct. 19	1234	328	37	239
Childs, William H. H., New York, N. Y. Moth and disinfectant paper	351,424	Oct. 26	1911	497	37	366
Chilson, Joseph N., Streator, Ill. Draw-bar	336,388	Feb. 16	1878	491	34	788
Chilton, Franklin H., assignor to Empress Embroiderer Company, New York, N. Y. Embroidering attachment for sewing-machines	342,183	May 18	1655	442	35	832
Chinnery, George W., assignor of one-half to F. P. Griffith, London, England. Portable apparatus for making and supplying aerated drinks	344,439	June 29	2375	611, 612	35	1467
Chinnock, Charles E., Brooklyn, N. Y. Cash-carrier	345,884	July 20	1558	402	36	292
Chipley, William L., Lamont, Mo. Egg boiler and steamer	341,878	May 18	1252	336	35	758
Chipman, Willard W., Everett, Mass. Door-hanger	338,931	Mar. 30	2810	741	34	1459
Chittenden, Harvey M., Danbury, Conn. Machine for felting hat-bodies	344,166	June 22	1995	511, 512	35	1391
Chivill, John, assignor to Webster & Comstock Manufacturing Company, Chicago, Ill. Fire-bucket	353,733	Dec. 7	116	32	37	1027
Chol, Emmanuel, and D. Monnier, Thibodeaux, La. Burglar-alarm	342,577	May 25	2241	595	35	945
Chope, Robert C., Syracuse, N. Y. Railway-gate	333,829	Jan. 5	459	125	34	85
Chormann, Ernest G., Philadelphia, Pa., assignor to Chormann-Mitchell Manufacturing Company, of New Jersey. Composition for decorative purposes	316,841	Aug. 3	482	.....	36	555
Chormann-Mitchell Manufacturing Company. (See Chormann, Ernest G., assignor.)						
Christensen, August C., Brooklyn, N. Y. Gas and steam piston meter	340,763	Apr. 27	2383	628	35	445
Christie, Herman H., Herkimer, N. Y. School-slate	339,618	Apr. 13	769	190	35	142
Christie, Jacob, Long Island City, assignor to S. Sterling, Brooklyn, N. Y. Grate	352,223	Nov. 9	736	197	37	601
Christie, Thomas K., Detroit, Mich. Hydrant	349,206	Sept. 14	916	235	36	1220
Christman, Augustus G., assignor of one-half to N. S. Althouse, Reading, Pa. Plow-jointer	345,770	July 20	1402	363	36	265
Christman, Augustus G., assignor to N. S. Althouse, Reading, Pa. Combined cultivator and hoe	347,320	Aug. 17	1179	315	36	699
Christoph, Charles, St. Louis, Mo. Street-sweeping machine	354,011	Dec. 7	524	142, 143	37	1101
Christy, Frederick C., Chicago, Ill. Soap-mold	339,376	Apr. 6	374	91	35	70
Christy, James, Jr. (See Denmead and McAllister, assignors.)						
Christy, Thomas J., Lebanon, Ill. Whiffletree-evener spring-casing	336,991	Mar. 2	144	39	34	952
Christy, William T., and J. W. Kohn, Newark, N. J. Pillow-sham holder	336,509	Feb. 16	2032	534	34	815
Chrystal, Michael R. (See Bonnichsen and Chrystal.)						
Chrystal, William J., Glasgow, county of Lanark, Scotland. Manufacture of bichromate of soda	342,578	May 25	2242	.....	35	945
Chunard, E. Melchor, Stroudsburg, Pa. Sash-holder	353,287	Nov. 30	2178	584	37	899
Church, Duane H., Waltham, Mass. Dial-train for time-pieces	339,377	Apr. 6	376	92	35	70
Church, Duane H., Newton, Mass. Going-barrel for watches	339,378	Apr. 6	377	93	35	70
Church, Duane H., Newton, Mass. Watch-case pendant	347,994	Aug. 24	2159	575	36	887
Church, Henry A., Providence, R. I. Button-fastener	353,921	Dec. 7	390	103	37	1078
Church, Henry W., Graniteville, Mass. Wool-washing machine	339,379	Apr. 6	378	93	35	70
Church, James E., Minneapolis, Minn. Burglar-alarm	338,388	Mar. 23	2044	536	34	1316
Church, Louis J., Washington, D. C. Nutmeg-grater	337,378	Mar. 9	668	175	34	1056
Church, William R., Yorkville, Ill. Road-cart	355,060	Dec. 28	2043	537	37	1406
Churchill, Bartholomew, assignor to Travis & Murray Manufacturing Company, New York, N. Y. Extension gas-chandelier	350,806	Oct. 12	1002	268	37	189
Churchill, Frank C. (See Carter and Churchill.)						
Churchill, Frank C., Lebanon, N. H. Overall-strap	341,129	May 4	217	65	35	545
Churchill, Frank C., Lebanon, N. H. Safety button-hole loop	341,879	May 18	1253	336	35	758
Churchill, James D. (See Durham and Churchill.)						
Churchill, Joshua W., Clarks Green, Pa. Lifting-jack	347,570	Aug. 17	1533	408	36	764

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Drg.	Official Gazette. Vol.	Page.
Churchill, William, Yarmouth, Nova Scotia, Canada. Machine for making pans	340,659	Apr. 27	2236	587	35	420
Chvala, Frank, Cooperstown, Wis. Device for supporting lanterns	339,148	Apr 6	45	15	35	12
Ciencoski, William, Kouts, Ind. Rowing apparatus	334,935	Jan. 26	2002	534	34	393
Cifre, Andres, Haverhill, Mass. Necktie-fastener	336,212	Feb. 16	1626	424	34	742
Cilley, George W., Norwich, Conn. Fire-arm	336,894	Mar. 2	12	4	34	929
Cilley, George W., Norwich, Conn. Revolver	339,149	Apr. 6	47	15	35	12
Cilley, George W., assignor to Hopkins & Allen Manufacturing Company, Norwich, Conn. Revolver	350,346	Oct. 5	329	93	37	67
Cincinnati Flying Target Company. (See Spangler, Albert E., assignor.)						
Cincinnati Neck Yoke Company. (See Buob and Jochum, assignors.)						
Cincinnati Neck Yoke Company. (See Sterner and Hawes, assignors.)						
Cincinnati Screw and Tap Company. (See Holz and Mueller, assignors.)						
Cissel, Richard S. T., *et al.* (See Murray, Peter, Jr., assignor.)						
Cissel, Richard S. T., Elizabeth, N. J. Damper	349,921	Sept. 28	1896	491	36	1425
Cissel, Robert B., *et al.* (See Murray, Peter, Jr., assignor.)						
Citizens Match Company. (See Norris and Hagan, assignors.)						
Clacher, Neil A., Chicago, Ill. Lozenge-machine	338,483	Mar. 23	2174	568	34	1340
Claflin, Charles R B., Jr. (See Flagg and Claflin.)						
Clague, William H. H., Rochester, N. Y. File-box	340,094	Apr. 20	1424	360	35	266
Clair, Joshua R., Philadelphia, Pa. Tension-wheel	338,484	Mar. 23	2177	569	34	1341
Clapham, Thomas, Roslyn, N. Y. Lee-board for small vessels	346,642	Aug. 3	247	68	36	508
Clapp, Bela P., Pawtucket, R. I. Apparatus for distilling ammoniacal waters	335,427	Feb. 2	474	{123 / 123}	34	526
Clapp, Benjamin W., and S. Ainsworth, Saratoga Springs, N. Y. Toboggan	349,481	Sept. 21	1297	337	36	1302
Clapp, James H., assignor to J. L. Board, Chicago, Ill. Soap-press	340,979	May 4	13	4	35	507
Clapp, John, and W. J. Keep, assignors to Michigan Stove Company, Detroit, Mich. Stove fire-pot	347,995	Aug. 24	2160	575	36	887
Clapp, John I. (See Heymann, Edward and F. W., assignors.)						
Claque, Wegman, Schlicht & Co. (See Schlicht, Paul J., assignor.)						
Clark, Aaron T., Yonkers, N. Y. Machine for blocking hats	355,254	Dec. 28	2330	613	37	1464
Clark, Alexander H., Fond du Lac, Wis. Stuffing-box	337,663	Mar. 9	1056	271	34	1123
Clark, Alexander H., Fond du Lac, Wis. Stuffing-box	344,349	June 29	2251	578	35	1444
Clark, Alvan G., Cambridgeport, Mass. Photographic shutter	341,130	May 4	217	66	35	545
Clark, Benjamin F. (See Mansure, Robert, assignor.)						
Clark, Benjamin S. (See Freeman, Warren P., assignor.)						
Clark, Champ, *et al.* (See Platt, Albert L., assignor.)						
Clark, Charles A. (See Boyden, Clark, and Trump.)						
Clark, Charles E., Belmont, N. Y. Feed mechanism for saw-mill carriages	351,165	Oct. 19	1518	398	37	291
Clark, Charles S. (See Harvey and Clark.)						
Clark, Commodore B., Williams, Cal. Gate	340,861	Apr. 27	2507	660	35	468
Clark & Company, George M. (See Kaczerowski, Franz, assignor.)						
Clark, Daniel D., Oberlin, and W. G. King, Cleveland, Ohio. Optometer	342,682	May 25	2391	{633 / 634}	35	973
Clark, David O., assignor of one-half to E. E. Dow, Haverhill, Mass. Shoe-nail	337,814	Mar. 16	1257	326	34	1164
Clark, Eaton K., Seymour, Iowa. Washing-machine	352,734	Nov. 16	1401	379	37	736
Clark, Frank A., Lawrence, Mass. Machine for balling yarn	336,389	Feb. 16	1879	491	34	788
Clark, Frank E., assignor of one-half to J. P. Barnett, Brooklyn, N. Y. Bundling wall-paper	335,684	Feb. 9	835	222	34	597
Clark, Frank M., Tilton, N. H., and F. R. Low, Chelsea, Mass. Boiler-tube cleaner	336,292	Feb. 16	1751	458	34	763
Clark, Frank M., Tilton, N. H., and F. R. Low, Chelsea, Mass. Control-gear for elevators	344,942	July 6	200	51	36	37
Clark, Frank P. (See Partrick, Hawley, assignor.)						
Clark, Frank S., and J. A. Bachman, Austin, Tex. Locking device for baling-press doors	336,293	Feb. 16	1752	458	34	763
Clark, Fred. Luling, Tex. Nut-lock	340,764	Apr. 27	2384	628	35	445
Clark, Gates A., Rochester, N. Y. Furnace	333,995	Jan 12	683	187	34	136
Clark, George F., Ravenswood, W. Va. Harrow	354,772	Dec. 21	1643	435	37	1320
Clark, George H., Newburyport, assignor to Whitin Machine Works, Whitinsville, Mass. Top-roll saddle for spinning-machines	345,831	July 20	1486	385	36	279
Clark, George M. (See Briggs and Clark.)						
Clark, George T., Toledo, Ohio. Station-indicator	354,771	Dec. 21	1642	435	37	1320
Clark, George W., Brooklyn, N. Y. Pulley-block	334,071	Jan. 12	799	219	34	156
Clark, Henry A., Brookline, assignor, by mesne assignments, to Eastern Electric Cable Company, Boston, Mass. Electrical conductor	336,992	Mar. 2	145	39	34	952
Clark, Henry D., assignor to himself and B. P. Ward, Rochester, N. Y. Combined fare-box and lantern	335,340	Feb. 2	359	93	34	506
Clark, Henry F., Poughkeepsie, N. Y. Cartridge	339,728	Jan. 5	321	88	34	60
Clark, Henry F., Poughkeepsie, N. Y., assignor to Palmer Torpedo Railway Signal Company, Plainfield, N. J. Electric alarm for torpedo railway-signals	341,553	May 11	812	217	35	663
Clark, Herbert M., Oshkosh, Wis. Vehicle-axle	334,566	Jan. 19	1523	407	34	295
Clark, Herman D., Mount Carmel, Conn. Machine for winding coverings upon thread, &c.	343,161	June 8	565	142	35	1118
Clark, Horace J., Westfield, N. Y. Rock-drill	351,310	Oct. 19	1715	{450 / 451}	37	326
Clark, James H., Chicago, Ill. Sewerage system	354,688	Dec. 21	1523	404	37	1297
Clark, James R., Watson, N. Y. Sand-band for vehicles	340,286	Apr. 20	1711	436	35	318
Clark, James T., and C. C. Clawson, Newark, N. J. Mill for grinding coffee, spice, &c.	349,693	Sept. 28	1573	408	36	1364
Clark, James W., Etna, Ohio. Fence	339,266	Apr. 6	218	54	35	41
Clark, John, *et al.* (See Stevens, Charles V., assignor.)						
Clark, John, Greenville, Cal. Automatic gate	337,556	Mar. 9	930	238	34	1100
Clark, John H., Boston, Mass. Gastenpine	344,440	June 29	2 76	612	35	1468
Clark, John H., Boston, Mass. Electric elevator	353,123	Nov. 23	1943	520	37	846
Clark, John H., Boston, assignor to O. Ames, Easton, Mass. Gas-engine	347,469	Aug. 17	1392	371	36	737
Clark, John H., Boston, assignor to O. Ames, Easton, Mass. Reversible gas-engine	353,402	Nov. 30	2348	627	37	929
Clark, John K., Buffalo, N. Y. Wrench	342,824	June 1	72	18	35	1019
Clark, John K., Buffalo, N. Y. Door-latch	344,722	June 29	2748	712	35	1536
Clark, John K., Buffalo, N. Y. Railway tie or support	350,478	Oct. 12	534	149	37	106
Clark, John W. (See Collins and Clark.)						
Clark, John W., Hamilton, Ohio. Fence-making apparatus	353,019	Nov. 23	1791	481	37	817
Clark, Joseph, Brooklyn, N. Y. Steering-propeller	337,479	Mar. 9	834	211	34	1082
Clark, Judson, Newburyport, Mass. Nailing-jack	342,579	May 25	2243	595	35	945
Clark, L. B., *et al.* (See Beale, Alfred, assignor.)						
Clark, Lemuel B., *et al.* (See Beale, Alfred M. A., assignor.)						
Clark, Lewis E., Lynn, Mass. Water-faucet	343,106	June 1	471	120	35	1092
Clark, Louis, Milwaukee, Wis. Suspenders	343,797	June 15	1492	376	35	1291

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Clark, Louis, Jr. (See Weinberg and Clark.)						
Clark, Maurice C., Derby, assignor to Birmingham Iron Foundry, Birmingham, Conn. Apparatus for manufacturing vulcanized rubber belting	348,659	Sept. 7	175	47	36	1078
Clark, Myron W., Parma, Mich. Elevator	341,639	May 11	930	246 / 247	35	687
Clark, Myron W., Parma, Mich. Flour-bolt	341,880	May 18	1254	336	35	758
Clark, R. Neilson, and N. H. Cone, Leadville, Colo. Ore-concentrator	345,114	July 6	437	112	36	80
Clark, Reuben W. (See Washburn, George A., assignor.)						
Clark, Rezin, Bolivar, Ohio. Device for twisting wire	345,366	July 13	766	198	36	147
Clark, Robert E., Fort Motte, S. C. Cotton chopper and cultivator	354,689	Dec. 21	1525	404	37	1298
Clark, Samuel J., Bunker Hill, Ind. Spring bed-bottom	349,980	Sept. 28	1984	513	36	1441
Clark, Walter. (See Glass and Clark.)						
Clark, Walter A., Chicago, Ill. Hub-attaching device	351,095	Oct. 19	1428	374	37	273
Clark, Walter A., Chicago, Ill. Hub-attaching device	351,495	Oct. 26	3021	524	37	387
Clark, Warren G., Troy, N. Y. Curry-comb	355,894	Feb. 9	1151	306	34	654
Clark, William, Newark, N. J. Traverse mechanism for thread-winding machines, &c.	340,862	Apr. 27	2508	660 / 661	35	468
Clark, William A. (See Hazzard, William H., assignor.)						
Clark, William R., assignor of one-half to W. C. Kohl, Schoolcraft, Mich. Hat and coat hook	350,807	Oct. 12	1003	268	37	189
Clark, William W., assignor of one-half to J. C. Banks and E. J. Smith, Chicago, Ill. Signal-lantern	352,040	Nov. 2	449	122	37	543
Clarke, Alexander D., New York, N. Y. Ore-concentrator	347,770	Aug. 24	1833	488	36	827
Clarke, Alexander D., New York, N. Y. Machine for concentrating gold, &c	347,771	Aug. 24	1834	488	36	827
Clarke, Alfred, Lowell, Mass. Metal-planing machine	346,090	July 27	1837	474 / 475	36	352
Clarke, Alfred L., Springfield, Ohio. Wheel-fender for railway-cars	339,857	Apr. 13	1099	273	35	201
Clarke Automatic Steam-Valve Company. (See Clarke, George, assignor.)						
Clarke, Benjamin S., *et al.* (See Tylee, James E., assignor.)						
Clarke, Charles L., Orange, N. J. Device for controlling the movements of the armatures of electro-magnets	343,008	June 1	315	82	35	1064
Clarke, Charles L., East Orange, N. J. Electric-clock system	347,572	Aug. 17	1556	408	36	764
Clarke, Charles L., East Orange, N. J., assignor to Telemeter Company, New York, N. Y. Indicating apparatus	347,571	Aug. 17	1534	408	36	764
Clarke, Charles M., Pittsburg, Pa. Bicycle-seat	334,164	Jan. 12	942	255	34	181
Clarke, Christopher, Northampton, Mass. Invalid-chair	347,321	Aug. 17	1182	316	36	700
Clarke, David W., Tidioute, Pa. Neck-yoke	353,441	Nov. 30	2402	642	37	940
Clarke, Francis R., Reddish, county of Lancaster, England. Mechanism for actuating signal-wires	338,389	Mar. 23	2045	536	34	1317
Clarke, George, assignor to Clarke Automatic Steam-Valve Company, Cincinnati, Ohio. Steam-actuated valve	344,032	June 22	1804	464	35	1356
Clarke, George H. (See Roe, John, assignor.)						
Clarke, George H. (See Rogers, Charles D., assignor.)						
Clarke, Henry, Chicago, Ill. Permutation-lock	338,338	Mar. 23	1966	517 / 518	34	1303
Clarke, James L., Leamington, county of Warwick, Eng and. Apparatus for sharpening pencils	346,356	July 27	2209	566	36	423
Clarke, John V., Watertown, N. Y. Catch-basin	345,115	July 6	438	113	36	80
Clarke, John V., Watertown, N. Y. Box for the stop-cocks of service-pipes	349,567	Sept. 21	1413	365	36	1325
Clarke, Joseph H. (See Millard and Clarke.)						
Clarke, Joseph H. (See Way and Clarke.)						
Clarke, Joseph W., assignor of one-third to N. B. Glover, Newnan, Ga. Machine for sprinkling fluid poison	345,413	July 13	857	214	36	159
Clarke, Reuben, assignor of one-half to J. G. Darling and D. McFarlane, Toronto, Ontario, Canada. Sash-balance	341,731	May 11	1057	280	35	712
Clarke, Robert, Graves-end, N. Y. Service-tank for water-closets	354,536	Dec. 21	1292	344	37	1256
Clarke, Samuel, Child's Hill Works, county of Middlesex, England. Infant's food-warmer or night-light apparatus	334,747	Jan. 26	1775	472	34	350
Clarke, Samuel, Child's Hill Works, county of Middlesex, England. Candle	343,567	June 15	1173	295	35	1234
Clarke, Samuel, Child's Hill Works, county of Middlesex, England. Candle-lamp and chandelier	352,296	Nov. 9	831	222 / 223	37	618
Clarke, Thomas, and W. S. Flynn, Jersey City, N. J. Feed-water heater	347,228	Aug. 10	1039	277	36	664
Clarke, Thomas T., Meldrum, Kilbeggan, county of Westmeath, Ireland. Apparatus for feeding steam-boilers	346,146	July 27	1920	495	36	368
Clarke, William B., French Lick, Ind. Burglar-alarm	350,118	Oct. 5	28	8	37	8
Clarke, William E., Providence, R. I. Garment-supporter	347,871	Aug. 24	1982	525	36	854
Clarke, William H., Jr., assignor of one-third to C. C. Poole, Chicago, Ill. Plow	333,601	Jan. 5	138	38	34	28
Clarkson, William H., New York, N. Y. Copy-holder for type-writers	336,551	Feb. 23	2096	551 / 552	34	833
Clarkson, William H., New York, and R. M. Fryer, Brooklyn, N. Y. Copy-holder for type-writing machines	353,622	Nov. 30	2673	716 / 717	37	991
Clason, Abraham T., Danbury, Conn. Machine for felting hats	338,140	Mar. 16	1703	443	34	1247
Clason, Abraham T., Danbury, Conn. Device for supporting hats	340,419	Apr. 20	1887	485	35	352
Clason, Abraham T., Danbury, Conn. Machinery for felting, planking, sizing, &c., hats	348,825	Sept. 7	379	103	36	1118
Class, John F., Pleasant Hill, Ohio. Railway turn-table	352,970	Nov. 23	1719	461 / 462	37	804
Class, William F., assignor, by mesne assignments, to C. Eberlein, Chicago, Ill. Beer-forcing apparatus	342,329	May 25	1884	499	35	882
Claudin, Edward D. (See Claudin, John L. and E. D.)						
Claudin, John L. and E. D., Morton, Ill. Combined pulverizer, harrow, and cultivator	347,573	Aug. 17	1538	409	36	765
Claus, Adolph, Lowell, Mass. Loom-shuttle	344,625	June 29	2330	680	35	1516
Claus, Carl F., London, England. Purifying coal-gas and obtaining ammonia and other products therefrom	337,246	Mar. 2	484	127	34	1015
Claus, Carl F., London, England. Obtaining sulphur from hydrogen sulphide	349,981	Sept. 28	1985	.....	36	1142
Claus, Carl F., London, England. Obtaining sulphur from sulphureted hydrogen	354,393	Dec. 14	10e3	.....	37	1212
Clausen, Adler C. (See Slafter and Clausen.)						
Claussen, Edward R. (See Kimmel and Claussen.)						
Clawson, Clement C. (See Clark and Clawson.)						
Clawson, Linus P., assignor to Black & Clawson Company, Hamilton, Ohio. Jordan engine for grinding paper-stock	341,223	May 4	357	99	35	570
Clay, Henry T., Philadelphia, Pa. Street-conduit for electric and cable railways	338,485	Mar. 23	2177	569	34	1341
Clay, J. Colby, Wells, Nev. Car-coupling	343,434	June 8	977	244	35	1191
Clay, John, Camptonville, Cal. Roller-cultivator	337,480	Mar. 9	835	211	34	1083

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Clay, John, Jr., *et al.* (See Thomson, John T., assignor.)						
Clay, Thomas, Paterson, N. J. Warping-machine	338,713	Mar. 30	2499	661, 662	34	1402
Clay, William W. (See Davidson and Clay.)						
Claycomb, William T., Stephensport, Ky. Turn-plow and double-shovel frame	334,847	Jan. 26	1893	505	34	373
Clayton, Herbert, Cincinnati, Ohio. Hood for fire-places	346,267	July 27	2092	538	36	401
Clayton, James, Brooklyn, N. Y. Regulator for pumps or compressors	351,043	Oct. 19	1358	357	37	261
Clayton, Joshua E., and S. F. Mackie, Salt Lake City, Utah Ter. Settler	344,519	June 29	2491	641, 642	35	1487
Clayton, Joshua E., and S. F. Mackie, Salt Lake City, Utah Ter. Concentrator	344,520	June 29	2494	642, 643	35	1488
Clayton, Robert G., deceased, (A. K. Russell administrator.) Chicago, Ill., assignor of one-half to R. G. Hill, Lebanon, Ky. Rocking-chair	335,428	Feb. 2	475	123	34	526
Clayton, William H., and B. L. Embry, Villa Rica, Ga. Sewing-machine-motor attachment	343,887	June 15	1605	408	35	1313
Cleary, Hugh, Wheeling, W. Va. Tool-holder for grindstones	354,690	Dec. 21	1526	405	37	1298
Cleary, Richard, St. Charles, Mo. Combined harrow and pulverizer	336,794	Feb. 23	2430	639	34	894
Cleaveland, John B., Indianapolis, Ind. Wire-stretcher	338,486	Mar. 23	2178	563	34	1341
Cleaveland, John B., Indianapolis, Ind. Wire-stretcher	345,367	July 13	787	199	36	147
Cleaver & Hollis. (See Salmon and Haislett, assignors.)						
Clebert, Zenon O., Donaldsonville, La. Plow	338,932	Mar. 30	2811	741	34	1459
Clegg, John, Providence, R. I. Plumber's furnace	340,765	Apr. 27	2385	629	35	446
Clemence, Addison B. (See Hall, Clemence, and Setterwall.)						
Clemenger, F. J. (See Brooder, John D., assignor.)						
Clemens, Julius, *et al.* (See Lindner, Ferdinand, assignor.)						
Clement & Dunbar. (See Dunbar, John H., assignor.)						
Clement & Dunbar. (See Reid and Dunbar, assignors.)						
Clement, Engel, assignor of one-half to P. Reckinger, St. Paul, Minn. Mechanical movement	350,479	Oct. 12	536	149, 150	37	106
Clement, Frank H., Rochester, N. Y. Buzz-planer	354,773	Dec. 21	1644	435	37	1321
Clement, Henry, *et al.* (See McLain, James W., assignor.)						
Clement, Ira T., *et al.* (See McLain, James W., assignor.)						
Clement, James, *et al.* (See Kenton, Levi C., assignor.)						
Clements, John, assignor to J. Cunningham, Son & Company, Rochester, N. Y. Draft attachment for vehicles	348,545	Sept. 7	7	2	36	1050
Clements, William L., Bay City, Mich. Pile-driver	350,347	Oct. 5	330	94	37	67
Clements, William L., Bay City, Mich. Portable rail-saw plant	353,922	Dec. 7	391	103	37	1078
Clemons, Henry, Downing, Mo. Wire-stretcher	343,009	June 1	318	82	35	1064
Clemson, George N., Middletown, N. Y. Saw	334,567	Jan. 19	1523	407	34	295
Clemson, George N., Middletown, N. Y. Saw	336,697	Feb. 23	2309	604	34	871
Clemson, George N., Middletown, N. Y. Sash-fastener	343,756	June 15	1446	361	35	1282
Clemson, George N., Middletown, N. Y. Door-check	344,564	June 29	2550	659	35	1499
Clemson, George N., Middletown, N. Y. Saw	349,143	Sept. 14	836	213	36	1204
Clerc, Frank L., assignor of one-half to G. T. Lewis, Philipsburg, Pa. Coal-mining machine	334,642	Jan. 19	1626	433	34	315
Clerc, Paul, Paris, France. Air-pump	341,453	May 11	679	182	35	638
Cleveland Electric Motor Company. (See Stockwell, Levi W., assignor.)						
Cleveland, Erastus L., assignor of two-thirds to M. P. Howley and S. Meik, Pittsburg, Pa. Car-truck	354,594	Dec. 21	1382	366	37	1271
Cleveland Faucet Company. (See Weatherhead, Albert J., assignor.)						
Cleveland Hardware Company. (See Brown, Samuel E., assignor.)						
Cleveland Malleable Iron Company. (See Simpson, John, assignor.)						
Cleveland, Thomas B., Newark, N. J. Button or stud	334,349	Jan. 12	1223	329	34	234
Cliff, Edward, Oswego, assignor of one-half to R. Vose, New York, N. Y. Combined rule, calipers, and square	335,565	Feb. 9	670	176	34	567
Cliff, Edward, Oswego, N. Y., assignor of one-fourth to O. A. Haynes, St. Louis, Mo. Spring for vehicles	342,731	May 25	2470	654, 655	35	987
Cliff, Edward, assignor to Cliff & Righter Co., Oswego, N. Y. Wagon bolster-spring	346,725	Aug. 3	347	94	36	529
Cliff & Righter Co. (See Cliff, Edward, assignor.)						
Clifford, John, assignor to L. Wolff Manufacturing Company, Chicago, Ill. Water-closet	335,895	Feb. 9	1152	306	34	654
Clifford, John, assignor to L. Wolff Manufacturing Company, Chicago, Ill. Water-closet	340,287	Apr. 20	1712	436	35	318
Clifford, Neal, St. Joseph, Mo. Chimney-cowl	344,565	June 29	2550	659	35	1499
Clifford, Patrick, and J. Coupal, Wollaston Heights, Mass. Micrometer-gage	335,110	Feb. 2	13	4	34	443
Clifford, Thomas, Mount Savage, Md. Water-heater for boilers	347,772	Aug. 24	1836	489	36	828
Clift & Co., I. D. (See Colby, John N., assignor.)						
Clifton, Charley D. (See Shugart and Clifton.)						
Clifton, Edward, Lowell, Mass. Apparatus for heating wire	343,010	June 1	318	82	35	1065
Clifton, Edward, Lowell, Mass. Apparatus for reeling or winding wire	345,832	July 20	1486	385	36	279
Clifton, Jackson M., Aunt, Tenn. Mail-carrier	346,357	July 27	2210	567	36	423
Clifton, Joseph E., Geneseo, Ill. Spring rail-frog for railways	335,341	Feb. 2	361	93	34	506
Clifton, Joseph H., Weston, W. Va. Fire-escape	335,896	Feb. 9	1154	306	34	654
Cline, George J., Goshen, Ind. Carpet-sweeper	350,040	Sept. 28	2058	532	36	1455
Cline, George J., assignor to I. X-L. Pump Company, Goshen, Ind. Wash-basin	335,057	Jan. 26	2176	578	34	422
Cline, Leon, St. Louis, Mo. Washing-machine	338,714	Mar. 30	2502	662	34	1403
Cline, Leon, assignor of one-fourth to S. W. Cline, Chicago, Ill. Stove for burning charcoal and cork	343,623	June 15	1250	314	35	1248
Cline, Milan S., Bristow, Iowa. Sulky-harrow	347,773	Aug. 24	1837	489	36	828
Cline, Samuel W. (See Cline, Leon, assignor.)						
Cline, Wesly M., Rogersville, Tenn. Churn	340,194	Apr. 20	1574	398	35	293
Clingman, John, Dayton, Ohio. Gas-stove	337,379	Mar. 9	669	175	34	1056
Clinton, James H., St. Louis, Mo. Extracting glycerine from fatty substances	336,795	Feb. 23	2431	.....	34	894
Clinton Wire Cloth Company. (See Brown, Robert T., assignor.) (Reissue.)						
Clinton Wire Cloth Company. (See Lee, Orange S., assignor.)						
Clinton Wire Cloth Company. (See Newton, Lewis W., assignor.)						
Clinton Wire Cloth Company. (See Parker, John W., assignor.)						
Clinton Wire Cloth Company. (See Scarles, Benjamin, assignor.)						
Clipp, Hamilton, Leipsic, Ind. Egg-tester	354,966	Dec. 28	1911	504	37	1383
Clippinger, Amos B., Centralia, Kans. Harrow	353,734	Dec. 7	117	32	37	1028
Cloke, John. (See Auble, James H., assignor.)						
Clokey, William J. (See Garvin and Clokey.)						
Close, Phillip C., Augusta, Ga. Pitman	337,380	Mar. 9	670	175	34	1056
Close, Phillip C., Augusta, Ga. Pitman	337,557	Mar. 9	933	239	34	1100
Close, Philipp C., Augusta, assignor of one-third to J. S. Bean and F. T. Lockhart, Richmond County, Ga. Sewage and night-soil incinerating apparatus	352,857	Nov. 16	1557	420	37	765
Closs, Peter, Cambridgeport, assignor to A. J. Lloyd, Boston, Mass. Eyeglass-case	349,267	Apr. 6	219	55	35	41

Alphabetical list of patentees—Continued.

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Closson, William B. (See Palmer, Cecil, assignor.)						
Cloud, William H., Detroit, Mich. Pump	345,116	July 6	440	113	36	80
Clough, Aaron S., Meredith, N. H. Combined table, blackboard, and molding-board for making relief-maps, &c	339,741	Apr. 13	949	233	35	173
Clough, Jefferson M., assignor to Winchester Repeating Arms Company, New Haven, Conn. Machine for finishing gun-barrels	337,247	Mar. 2	489	128	34	1016
Clous, William I., Reading, Pa. Ironing-board	336,608	Feb. 23	2369	664	34	871
Cloutier, Bernard, Minneapolis, Minn. Cockle-separator	334,643	Jan. 19	1658	434	34	315
Clow, William M., East Wheatland, Ill. Anchoring device for wire fences	338,037	Mar. 16	1566	406	34	1220
Clow, William M., East Wheatland, Ill. Stay for wire fences	342,580	May 25	2244	596	35	945
Clow, William M., Wheatland, Ill. Wire fence gate	354,095	Dec. 14	648	175	37	1133
Clow, William M., Wheatland, Ill. Wire-fence coupler	354,096	Dec. 14	650	176	37	1133
Cloyd, Henry C., Union City, Ind. Flooring-jack	338,933	Mar. 30	2811	741	34	1459
Cloyes, James H. (See Lane and Cloyes.)						
Cloyes, James H., Kalamazoo, Mich. Two-wheeled vehicle	349,207	Sept. 14	917	236	36	1220
Cloyes, James H., Kalamazoo, Mich. Two-wheeled vehicle	349,208	Sept. 14	918	236	36	1220
Cluever, Henry, Albany, and N. Thelen, Schenectady, N. Y. Railway-gate	347,574	Aug. 17	1539	409	36	765
Cluever, John H., Albany, N. Y. Corkscrew	344,566	June 29	2551	659	35	1499
Clune, Michael. (See Baar, Gerhard L., assignor.)						
Clune, Michael, Indianapolis, Ind. Sofa-bed	337,481	Mar. 9	836	212	34	1083
Cluny, William B., Fall River, Mass. Wash-boiler	339,858	Apr. 13	1099	274	35	202
Clute, Charles E., Waterford, N. Y. Box covering and trimming machine	335,429	Feb. 2	476	123 / 124	34	526
Clute, John, assignor to Campbell & Clute, Cohoes, N. Y. Machine for uniting knit fabrics	344,897	July 6	144	36 37	36	26
Clute, John, assignor to Campbell & Clute, Cohoes, N. Y. Machine for uniting knit fabrics. (Reissue)	10,763	Sept. 21	1545	399	36	1353
Clute, John, assignor to Campbell & Clute, Cohoes, N. Y. Machine for uniting knit fabrics. (Reissue)	10,764	Sept. 21	1547	399 / 400	36	1353
Clute, Nicholas J., Chicago, Ill. Making laundry-soap, &c	347,027	Aug. 10	753		36	612
Cluthe, Charles, Toronto, Ontario Canada. Ventilator	345,117	July 6	441	113 / 114	36	81
Clutter, Emanuel, and A. Mockenhaupt, assignors to North Western Straw Fuel Company, Pierre, Dak. Ter. Straw-burner	352,607	Nov. 16	1224	332	37	702
Coale, Joseph M., Baltimore, Md. Safety-valve	338,827	Mar. 30	2665	701 / 702	34	1439
Coas, Edward K., Gloucester, Mass. Machine for making tubes	344,350	June 29	2253	578 / 579	35	1444
Coates, George H., Worcester, Mass. Finger-nail cutter	342,780	June 1	10	3	35	1008
Coates, George H., Worcester, Mass. Finger-nail cutter	350,720	Oct. 12	878	235	37	167
Coates, Joseph R. T. (See Kleckner and Coates.)						
Coats, Albert J., Eagle, Wis. Combination stove-rack and shelf	348,889	Sept. 7	475	126	36	1135
Coats, Elmer E. (See Trinkle, Petitt, and Coats.)						
Coats, Henry C., and H. B. Reiber, Pleasant Hill, Ohio. Fence	341,224	May 4	358	99	35	571
Coatsworth, Reuben H., Buffalo, N. Y. Harness	347,229	Aug. 10	1040	277	36	664
Cobb, Chauncey, *et al.* (See Fisher, John R. and L. T., assignors.)						
Cobb, Daniel L., Ypsilanti, Mich. Farm-gate	343,798	June 15	1493	376	35	1291
Cobb, Delphin B., Brooklyn, N. Y. Tube-packing for surface-condensers	334,512	Jan. 19	1450	389	34	282
Cobb, Delphin B., Brooklyn, N. Y. Tube-packing for surface-condensers	341,554	May 11	813	217	35	663
Cobb, Edward S., Terre Haute, Ind. Micrometer-calipers	335,214	Feb. 2	186	50	34	474
Cobb, Henry B., Wilmington, Del. Manufacturing dies for producing perforated patterns	346,380	Aug. 3	165	44	36	491
Cobb, John P., College City, Cal. Machine for setting and sharpening saws	354,691	Dec. 21	1528	405	37	1298
Cobb, Rollin A., *et al.* (See Winfield, William C., assignor.)						
Cobbley, James *et al.* (See Cotter, Edward J., assignor.)						
Coble, Thomas H. (See Ritzman, Jackson, assignor.)						
Coburn, Frances J., and E. M. Dean, Denver, Colo. Composition of matter to be used for journal-boxes	350,911	Oct. 19	1148		37	223
Cochen, Eugene H., Brooklyn, N. Y. Combined comb and comb-cleaner	336,380	Apr. 6	370	93	35	71
Cocheu, Jacob, Brooklyn, N. Y. Device for cleaning slates	352,946	Nov. 23	1686	452	37	798
Cochley, Jacob H., *et al.* (See Furey, Cyrus R., assignor.)						
Cochran, John C., Ripley, Ohio. Sewing-machine stand	337,381	Mar. 9	671	176	34	1056
Cochran, John C., Ripley, Ohio. Sewing-machine	341,881	May 18	1256	337	35	758
Cochran, Josephine G., Shelbyville, Ill. Dish-washing machine	355,139	Dec. 28	2158	568 / 569	37	1429
Cochran, Oscar, *et al.* (See Sharp, Taylor E., assignor.)						
Cochrane, Charles, Stourbridge, county of Worcester, England. Desiccating the air-supply to furnaces	341,316	May 4	491	133	35	594
Cochrane, Horace, Philadelphia, Pa. Hat-tip	336,213	Feb. 16	1627	425	34	742
Cochrane, James, and H. F. Kirk, New York, N. Y.; said Kirk assignor to said Cochrane. Cabinet-bedstead	336,993	Mar. 2	146	40	34	952
Cochrane, James L. (See Krajewski, Thomas F., assignor.)						
Cochrane, John, Jr., Malden, Mass. Apparatus for steaming fabrics or yarns	348,616	Sept. 7	115	33	36	1068
Cockcroft, Thomas, Birkenhead, county of Chester, England. Filling and corking machine	341,406	May 4	610	167	35	615
Codd, Hiram, London, England. Bottle	345,277	July 13	666	169	36	126
Coddington, Frank J. (See Olin and Coddington.)						
Coddington, George W., Middletown, Ohio. Fruit-can fastener	336,796	Feb. 23	2432	639	34	895
Coddington, George W., Middletown, Ohio. Former-head for glass jars	341,317	May 4	493	134	35	594
Coddington, Milton W., Rutherford, N. J. Car-coupling	351,964	Nov. 2	340	94	37	521
Coder, Jeremiah, Monclova, Ohio. Fence-post	350,973	Oct. 19	1235	328	37	229
Codling, Robert B., Bristol, Conn. Apparatus for carving	340,268	Apr. 20	1713	436	35	318
Codman & Shurtleff. (See Shurtleff, Asahel M., assignor.)						
Codwise, Beverly R., Montrose, Md. Game-board	340,980	May 4	14	4	35	507
Coe, Frederick W. (See Moulton and Coe.)						
Coe, Henry I. (See Thackston, Richard D., assignor.)						
Coe, James B. (See Wilson and Coe.)						
Coe, James E. (See Johnston, Lysander, assignor.)						
Coen, George W., assignor to himself and S. M. Bushnell, Monticello, Ind. Reclining rocking-chair	338,038	Mar. 16	1567	406	34	1220
Coerper, Carl, Cologne, Germany. Armature for dynamo-electric machines	337,558	Mar. 9	934	239	34	1100
Coerper, Carl, Cologne-on-the-Rhine, Prussia, assignor to Helios Actiengesellschaft für Elektrisches Licht und Telegraphenbau, Ehrenfeld and Cologne, Germany. Dynamo-electric machine	353,414	Nov. 30	2365	630	37	933
Coffee, Andrew J., Portland, Oreg. Electric horse-unhitcher	339,043	Mar. 30	2977	787	34	1487

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Pages.
Coffee, Andrew J., Portland, Oreg. Electric signal-recorder	339,381	Apr. 6	380	93, 94	35	71
Coffee, Edward Z., Philadelphia, Pa. Composition for preserving leather	346,581	Aug. 3	166	.....	36	492
Coffin, Charles L., Detroit, Mich. Purifying and crystallizing essential oils	336,622	Feb. 23	2290	.....	34	850
Coffin, Francis A., Indianapolis, Ind. Cabinet-desk	338,039	Mar. 16	1568	407	34	1120
Coffin, Francis A., Indianapolis, Ind. Cabinet-desk	338,632	Mar. 23	2371	624	34	1174
Coffin, Francis A., Indianapolis, Ind. Lock for rotating desks	344,943	July 5	200	52	36	37
Coffin, Francis H., Portland, Me. Temporary binder	337,664	Mar. 9	1057	272	34	1124
Coffin, John W., Oskaloosa, Iowa. Sliding and rolling gate	348,108	Aug. 24	2318	622	36	917
Coffman, Frank A., *et al.* (See Van Ostrand, Thomas, assignor.)						
Coggeshall, Charles P., Boston, Mass. Umbrella	354,537	Dec. 21	1203	344	37	1256
Coggins, O. Chester, assignor to C. Pierpont & Co., New Haven, Conn. Carriage-top	347,926	Mar. 16	1404	364	34	1192
Coghill, Alexander S., Rathmines, and J. A. C. Anthony, Sandymount, county of Dublin, Ireland. Machine for printing and cutting stepped indexes	351,249	Oct. 19	1631	428	37	311
Coghlan, David F., and T. H. Sears, Holyoke, Mass. Steam-boiler	350,912	Oct. 19	1148	306	37	223
Coglizer, Samuel W., Weeping Water, Nebr. Trough for watering live stock	351,852	Nov. 2	181	50	37	492
Cogswell, Asa F., W. Young, and J. R. Haldeman, Kansas City, Mo. Electric gas-lighting apparatus	341,882	May 18	1259	337	35	739
Cohen, Morris C., Winfield, Kans. Lace and embroidering stand	352,396	Nov. 9	957	256	37	644
Cohen, T. Theodor, Philadelphia, Pa. Ventilating bulk-windows, stores, &c	341,318	May 4	494	134	35	394
Cohlman, William, Philadelphia, Pa. Trousers or overalls	352,297	Nov. 9	832	224	37	619
Cohn, Abraham E., assignor of one-half to A. and H. Myers, Philadelphia, Pa. Spring-roller for sash-balances	344,626	June 29	2331	681	35	1516
Cohn, Albert L. (See Mitchell, Frederick J., assignor.)						
Cohn & Co., M. (See Baker, Frank M., assignor.)						
Cohn, Sigmund, Milwaukee, Wis. Cigar-molding machine	337,665	Mar. 9	1058	272	34	1123
Coit, John W. L., and J. R. McNamara, Norwich, Conn. Beer-drawing apparatus	335,566	Feb. 9	671	177	34	567
Coit, John W. L., and J. R. McNamara, Norwich, Conn. Device for tapping beer-casks, &c	349,210	Sept. 14	920	236	36	1220
Cokely, Michael. (See Wheeler and Cokely.)						
Colahan, Charles, Cleveland, Ohio. Harvester and binding machine	340,095	Apr. 20	1426	360, 361	35	266
Colahan, Charles, Cleveland, Ohio. Grain-binding harvester	340,096	Apr. 20	1427	361	35	267
Colbert, Daniel G., Grand Rapids, Ohio. Washing-machine	337,046	Mar. 2	221	58	34	966
Colbert, Lewis H., Bluffton, Ind. Fence	348,318	Aug. 31	2624	707	36	984
Colbourne, Mark J., Three Runs, assignor of one-half to J. W. Merrey, Beech Creek, Pa., Car-coupling	349,694	Sept. 28	1576	408, 409	36	1365
Colburn, James S. and J. C., Altoona, Pa. Funnel-stand	351,578	Oct. 26	2145	555	37	411
Colburn, John C. (See Colburn, James S. and J. C.)						
Colburn, Lyman S., Oberlin, Ohio. Roller-skate wheel	339,382	Apr. 6	382	94	35	71
Colburn, Lyman S., Oberlin, Ohio. Car-brake shoe	347,419	Aug. 17	1314	350	36	723
Colburn, William. (See Dretherton and Colburn.)						
Colby, Calvin, *et al.* (See Houghton, Darius, assignor.)						
Colby, Edward J., Chicago, Ill. Time-lock for toy banks	351,359	Oct. 26	1787	470	37	345
Colby, Edward J., Chicago, Ill. Lock and key	354,097	Dec. 14	651	176	37	1134
Colby, Edward J., Chicago, Ill. Kite	354,098	Dec. 14	652	176	37	1134
Colby, Gilbert A., Chicago, Ill. Furnace	341,883	May 18	1260	338	35	739
Colby, John D., Lowell, Mass. Spindle-bolster for spinning-machines	342,581	May 25	2245	596	35	946
Colby, John N., New London, assignor of one-half to I. D. Clift & Co., Mystic River, Conn. Air-gun	341,884	May 18	1261	338	35	739
Colby, Joseph O., Boston, Mass. Lamp	338,830	Mar. 30	2670	702, 703	34	1433
Coldren, William P., Philadelphia, Pa. Fruit-jar	336,552	Feb. 23	2098	553	34	833
Coldwell, Thomas and W. H., Newburg, N. Y. Lawn-edge trimmer	340,430	Apr. 20	1888	485	35	352
Coldwell, William H. (See Coldwell, Thomas and W. H.)						
Cole, Adam E. (See Eppler and Cole.)						
Cole, Carey W., West Hartford, Mo. Gate-hinge	348,381	Aug. 31	2710	728	36	998
Cole, Cary O. (See Jordan and Cole.)						
Cole, Carey O., Letts, Iowa, assignor of one-half to E. G. Grosjean, Mount Eaton, Ohio. Automatic cigar-seller	352,397	Nov. 9	958	257	37	645
Cole, Charles H., Little Rock, Ark. Carpet-lining	355,140	Dec. 28	2161	570	37	1430
Cole, Charles L., Bushnell, assignor of one-half to W. A. Stine, Peoria, Ill. Coffee and peanut roaster	340,289	Apr. 20	1715	437	35	318
Cole, Daniel B., Memphis, Mich. Plant and tree protector	342,582	May 25	2246	596	35	946
Cole, Darwin B., Meriden, N. H. Paper-receptacle	350,808	Oct. 12	1004	269	37	190
Cole, David. (See Stutsman and Cole.)						
Cole, E. Merritt. (See Bowker, Cole, and Smith.)						
Cole, Edward C. (See Tyler, Aaron J., assignor.)						
Cole, Edward C., *et al.* (See Robbins, Arthur C., assignor.)						
Cole, Edward H., Brooklyn, N. Y. Stuffing-box	344,816	July 6	17	5	36	5
Cole, Elizabeth J., assignor to H. G. Underwood, Milwaukee, Wis. Frame for making rugs	345,029	July 6	332	84	36	61
Cole, George S., The Dean, near Cirencester, county of Gloucester, England. Tree-guard	349,086	Sept. 14	756	193	36	1189
Cole, H. Earl, Allegheny City, Pa. Seed or grain distributing device	336,390	Feb. 16	1880	492	34	788
Cole, Henry C., Wallingford, Vt. Shovel	352,224	Nov. 9	737	197	37	602
Cole, Hiram, assignor to Allen Brothers, Sandy Hill, N. Y. Fiber-cleaning separator	336,294	Feb. 16	1753	458, 459	34	763
Cole, James J., Indianapolis, and T. A. Cole, Greenwood, Ind. Speculum for the throat	350,809	Oct. 12	1005	269	37	190
Cole, James W., Nashville, Tenn. Oil-stone holder	337,559	Mar. 9	935	239	34	1100
Cole, James W., assignor of two-thirds to G. T. Moore and C. J. King, Westfield, Mass. Car-coupling	338,828	Mar. 30	2668	702	34	1432
Cole, James W., assignor of two-thirds to G. T. Moore and C. J. King, Westfield, Mass. Draw-bar for cars	338,829	Mar. 30	2669	702	34	1432
Cole, John J., Terre Haute, Ind. Device for measuring car-wheels	354,595	Dec. 21	1385	367	37	1272
Cole, John S., Hooksett, N. H. Liquid measure	350,810	Oct. 12	1006	269	37	190
Cole, Jonah R., New York, assignor to W. H. H. Rogers, Brooklyn, N. Y. Folding box	343,757	June 15	1447	361	35	1382
Cole, Mary E., Letts, Iowa. Sash-fastener	345,483	July 13	953	240	36	177
Cole, Mary J., Grand Rapids, Mich. Trunk	348,188	Aug. 31	2447	657	36	947
Cole, Moses S., Rivas, Nicaragua. Aerial vessel	352,298	Nov. 9	833	224	37	619
Cole, Moses S., Rivas, Nicaragua. Propelling-wheel	352,299	Nov. 9	834	224, 225	37	619
Cole, P. Fletcher, Newark, N. J. Glove, &c	334,513	Jan. 19	1451	389	34	282
Cole, Russel, Terre Haute, Ind. Folding camp-stool	352,608	Nov. 16	1225	332	37	702

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Pages.
Cole, Thomas A. (See Cole, James J. and T. A.)						
Cole, Thomas Z., New Orleans, La., assignor of one-half to H. Wilson, Denver, Colo. Conveyer for dredging and ditching machines	342,583	May 25	2247	596, 597	35	946
Cole, Thomas Z., New Orleans, La., assignor of one-half to H. Wilson, Denver, Colo. Dredging-machine	342,732	May 25	2472	655, 666, 667	35	987
Cole, Wesley, Lawrence, Kans. Vehicle-spring	345,118	July 6	443	114	36	81
Cole, William E., Montgomery, Ala. Lumber-drier	340,660	Apr. 27	2238	587	35	420
Cole, William R., *et al.* (See Cole, William R., assignor.)						
Cole, William R., assignor to himself, F. G. Smith, and G. W. Moore, trustees, Detroit, Mich. Telephone-transmitter	351,250	Oct. 19	1632	429	37	312
Cole, William R., assignor to W. R. Cole, F. G. Smith, and G. W. Moore, trustees, Detroit, Mich. Telephone	352,735	Nov. 16	1402	379	37	736
Cole, William R., assignor to himself, F. G. Smith, and G. W. Moore, trustees, Detroit, Mich. Microphone-transmitter	352,806	Nov. 16	1496	404	37	753
Cole, William W., Philadelphia, Pa. Lubricator	348,451	Aug. 31	2811	755	36	1018
Colebrook, Cemer T., Islington, county of Middlesex, England. Rotary pump or similar apparatus	345,885	July 20	1561	402	36	292
Coleman, Abner, Taunton, Mass. Mechanism for operating engine-house doors	350,913	Oct. 19	1149	306	37	223
Coleman, Caryl, assignor to American Endolithic Company, New York, N. Y. Producing designs, &c., upon surfaces	349,340	Sept. 21	1078	------	36	1260
Coleman, F. E., *et al.* (See Dugaw, James, assignor.)						
Coleman, Francis W., Rodney, Miss. Handle for cans	336,699	Feb. 23	2310	604	34	872
Coleman, Frank P., Brockport, N. Y. Stay-roller for sliding doors	341,640	May 11	932	247	35	687
Coleman, George W., Cincinnati, Ohio. Gas-stove	349,209	Sept. 14	919	236	36	1220
Coleman, Henry G., Gordonton, N. C. Tether	336,295	Feb. 16	1755	459	34	763
Coleman, John, Lynchburg, Va. Vehicle-axle	351,425	Oct. 26	1911	497	37	366
Coleman, Minor S., Cotopaxi, Colo. Hay and cotton press	342,427	May 25	2037	537	35	907
Coleman, Minor S., Cotopaxi, Colo. Hay and cotton press	354,304	Dec. 14	970	258	37	1190
Coleman, Robert H. (See Andrews, Edward, assignor.)						
Coleman, William E., Schooley's Mountain, N. J. Drinking straw or tube holder for tumblers or other glasses	344,567	June 29	2552	660	35	1499
Coleman, William O., Grand Rapids, Mich., assignor to E. C. Poole, Cincinnati, Ohio. Seed-cotton cleaner	343,228	June 8	658	164	35	1135
Coleman, William T. (See Neuenschwander, Rudolph G., assignor.)						
Coler, Peter P., Clyman, Wis. Grain-binder	336,895	Mar. 2	13	4, 5, 6	34	929
Coler, Peter P., Clyman, Wis. Grain-binder	341,131	May 4	218	66, 67	35	545
Coles, David H., New York, N. Y. Feeding mechanism for sewing-machines	335,018	Jan. 26	2116	564	34	413
Coles, David H., New York, N. Y., assignor to himself, A. G. Darwin, Glen Ridge, J. B. Beach, Bloomfield, N. J., and H. W. Guernsey, Brooklyn, N. Y. Shuttle-carrying mechanism for sewing-machines	335,017	Jan. 26	2115	563, 564	34	412
Coles, David H., New York, N. Y., assignor to himself, A. G. Darwin, Glen Ridge, and J. C. Beach, Bloomfield, N. J. Quilting-machine	340,863	Apr. 27	2512	661, 662	35	468
Coles, John E., New York, N. Y. Fruit-lifter	352,736	Nov. 16	1402	370	37	737
Coles, Samuel, Valhalla, N. Y. Road-cart	340,766	Apr. 27	2386	629	35	446
Colesworthy, Charles W., *et al.* (See Russell, Manuel, assignor.)						
Colhapp, John L., Chicago, Ill. Machine for manufacturing plug-tobacco	348,617	Sept. 7	118	33	36	1069
Colladay, Stephen B., *et al.* (See Forrest, William W., assignor.)						
Collamore, Gilman, *et al.* (See Humans, William, assignor.)						
Collamore, William L., Warren, R. I. Steam-engine governor	348,265	Aug. 31	2555	687	36	967
Colles, Edward G. T., Chicago, Ill. Combined feed-water purifier and boiler-cleaner	343,435	June 8	977	244	35	1192
Colles, Edward G. T., Chicago, Ill. Live-steam purifier	343,436	June 8	982	245	35	1192
Colles, Edward G. T., Chicago, Ill. Feed-water heater	351,360	Oct. 26	1789	470	37	345
Collet, Thomas M. (See Houghton and Collet.)						
Collie, John W., Wild Cherry, Ark. Chain halter	354,394	Dec. 14	1084	290	37	1212
Collier, John W., Lockport, N. Y. Pump	334,936	Jan. 26	2003	534	34	393
Collier, Phoebe. (See Collier, Thomas, assignor.)						
Collier, Robert B. (See Good and Collier.)						
Collier, Samuel R., Xenia, Ohio. Hay-tedder	339,542	Apr. 13	950	233	35	173
Collier, Thomas, assignor to P. Collier, Racine, Wis. Combined mangle and wringer	346,427	July 27	2315	596	36	442
Colleson, Samuel A., Somerville, assignor to G. James, Boston, Mass. Heel-lift cutter	351,741	Nov. 2	17	5	37	462
Collings, William H., Collingswood, N. J. Construction and operation of vacuum-pans	335,430	Feb. 2	478	124	34	527
Collins, Charles, Doctor Town, Ga. Shaking apparatus	350,811	Oct. 12	1007	269	37	190
Collins, Charles H. S., Cleveland, Ohio. Core-box planer	345,278	July 13	668	169	36	127
Collins, Charles W., Allegheny City, assignor of one-half to H. H. Hooton, Pittsburg, Pa. Cement for pipe-joints	352,449	Nov. 9	1023	275	37	657
Collins, David M., Lowell, Mass. Operating picker-staffs in power-looms	333,729	Jan. 5	321	88	34	60
Collins, Edward, New York, assignor of one-half to J. K. Frothingham, Brooklyn, N. Y. Scroll-sawing machine	340,097	Apr. 20	1429	361	35	267
Collins, Eli A., assignor to himself and C. E. Bryant, Huntington, Ind. Ice-tongs	339,044	Mar. 30	2978	788	34	1488
Collins, Eugene F., Anson, Me. Hoof-pad	338,250	Mar. 23	1850	486	34	1283
Collins, Everell S., Meadville, Pa. Circular sawing machine	344,568	June 29	2553	660	35	1500
Collins, Franklin H., *et al.* (See Russell, Manuel, assignor.)						
Collins, Frederick, St. Joseph, Mich. Attachment for focusing photographic cameras	341,885	May 18	1262	338	35	759
Collins, Frederick, St. Joseph, Mich. Photographic-camera attachment	341,886	May 18	1262	338, 339	35	759
Collins, Frederick, St. Joseph, Mich. Photographer's camera attachment	351,853	Nov. 2	182	50	37	492
Collins, George E., assignor of two-thirds to A. J. Weatherhead and J. Mayer, Cleveland, Ohio. Beer apparatus	342,733	May 25	2477	657, 658	35	988
Collins, George E., and A. J. Weatherhead, Cleveland, assignors of one-third to J. J. Mayer, Cuyahoga County, Ohio. Combined venting and draft tube	341,555	May 11	814	217	35	664
Collins, George E., and E. H. Weatherhead, Cleveland, Ohio. Bung	342,184	May 18	1657	442, 443	35	832
Collins, Henry, *et al.* (See Murray, William, assignor.)						
Collins, Henry and J. W., Pawtucket, R. I. Bobbin-supporting spindle and bolster therefor for winding-machines	345,030	July 6	333	84	36	61
Collins, Horatio E., assignor to himself and O. Hartman, Detroit, Mich. Straw-cutter	345,484	July 13	954	241	36	177
Collins, Jacob T., and E. B. Grant, Byesville, Ohio. Fire-screen	337,001	Aug. 10	855	227	36	630
Collins, John, Malden, Mass. Mitten and knitting the same	353,020	Nov. 23	1792	481	37	817
Collins, John H., and G. E. Odell, Salem, Mass.; said Odell assignor to said Collins. Puzzle	343,516	June 8	1093	274	35	1212
Collins, John J., Washington, D. C. Mechanism for converting motion	347,230	Aug. 10	1041	278	36	664
Collins, John S., and E. J. Lyons, Brooklyn, N. Y. Clothes-line pulley	349,482	Sept. 21	1298	337	36	1302
Collins, Joseph E., and J. W. Clark, Oak Centre, Wis. Hay-knife	342,185	May 18	1658	443	35	832

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Collins, Joseph S., assignor of two-thirds to J. G. Ulmer and J. H. Johnson, Philadelphia, Pa. Machine for sewing on buttons	350,453	Oct. 5	485	136 137	37	93
Collins, Joseph W. (See Collins, Henry and J. W.)						
Collins, Joseph W., *et al.* (See Murray, William, assignor.)						
Collins, Olmstead, assignor of one-half to A. P. Dodge, Chicago, Ill. Wire straightener and cutter	348,660	Sept. 7	176	48	36	1078
Collins, Peter. (See Walters, Alfred, assignor.)						
Collins, Sam F., Binghamton, N. Y. Hot-water apparatus	354,305	Dec. 14	971	258	37	1190
Collins, Stephen, Clarksville, Tenn. Fence	353,665	Dec. 7	17	5	37	1010
Collins, William H., Chicago Ill. Telephone-transmitter	352,119	Nov. 9	577	154	37	574
Collison, Edward E., Jr., Erin, Tenn. Instantaneous shutter for cameras	341,887	May 18	1265	339	35	760
Collmer, Charles E. (See Reyher, William H., assignor.)						
Collum, George S., assignor, by mesne assignments, to S. A. Collum, Hartford, Conn. Candy-manufacturing machine	336,839	Feb. 23	2492	656	34	906
Collum, Sarah A. (See Collum, George S., assignor.)						
Collyer, Charles W., assignor to J. R. Baldwin, trustee, Lynn, Mass. Seam rubbing or pressing machine	341,407	May 4	611	167 168	35	615
Collyer, Henry M. (See Crawford, Middleton, assignor.)						
Colman, Hutson B., Kalamazoo, Mich. Windmill	346,582	Aug. 3	166	45	36	492
Colman, Hutson B., and G. Turner, Kalamazoo, Mich.; said Turner assignor to said Colman. Power-windmill	337,482	Mar. 9	838	212	34	1083
Colony, Josiah D., Philadelphia, Pa. Writing-case	336,391	Feb. 16	1882	492	34	788
Colony, Josiah D., Philadelphia, Pa. Combined water-cooler and refrigerator	342,330	May 25	1896	499	35	882
Colony, Josiah D., Philadelphia, Pa. Refrigerator	348,109	Aug. 24	2320	622	36	918
Colquhoun, Cecil H., St. Andrew's Bay, Fla. Hydraulic gate or water-regulator	348,266	Aug. 31	2557	687	36	967
Colquitt, Hugh H., Atlanta, Ga. Fertilizer	346,024	July 20	1757	.....	36	327
Colston, R. T. (See Perry, Alonzo H., assignor.)						
Colton, Arthur L., Milwaukee, Wis. Device for holding and filing letters, blanks, &c	339,859	Apr. 13	1100	274	35	202
Colton & Company, G. D. (See Colton, Octavius J., assignor.)						
Colton, George A., Syracuse, N. Y. Tool-holder	340,098	Apr. 20	1430	361	35	267
Colton, Octavius J., assignor to G. D. Colton & Company, Galesburg, Ill. Corn-planter	349,836	Sept. 28	1795	464	36	1405
Colts Patent Fire-Arms Manufacturing Company. (See Davis, Carroll A., assignor.)						
Colts Patent Fire-Arms Manufacturing Company. (See Ehbets, Carl J., assignor.)						
Colts Patent Fire-Arms Manufacturing Company. (See Franklin and Ehbets, assignors.)						
Colts Patent Fire-Arms Manufacturing Company. (See Peard, James J., assignor.)						
Columbia Rubber Company. (See Jacobs, Joseph M., assignor.)						
Columbus Watch Company. (See Owen, Walter W., assignor.)						
Columbus Watch Company. (See Wheeler, Philip H., assignor.)						
Colville, John, Brunswick, Ga. Return-crate	339,045	Mar. 30	2979	788	34	1488
Colwell, Augustus W. (See Newhall and Colwell.)						
Colwell Lead Company. (See Hooper, John, assignor.)						
Colwell Lead Company. (See Tracy, Christopher C., assignor.)						
Combes, Frank A., Cleveland, Ohio. Ruler	336,700	Feb. 23	2311	605	34	872
Combination Button Company. (See Palmer, Noyes F., assignor.)						
Combination Gas Machine Company. (See Allender and Henderson, assignors.)						
Combs, George W., Leavenworth, Kans. Roller-mill	342,498	May 25	2136	565	35	925
Combs, Hiram S., assignor to F. H. Leavenworth, Detroit, Mich. Roller-skate	333,996	Jan. 12	685	187	34	137
Combs, John M. (See Shears, Albert L., assignor.)						
Combs, Nelson D., assignor to himself and A. W. Culver, Hawthorne, Iowa. Gate	348,489	Aug. 31	2863	770	36	1027
Comegys, Cornelius G., Cincinnati, Ohio. Attachment for steam-boilers	348,546	Sept. 7	8	2	36	1050
Comer, Henry B., Philadelphia, Pa. Registering-door for street-cars	343,329	June 8	660	164	35	1135
Comes, K. Lester, Danbury, Conn. Barber's register	341,556	May 11	815	217	35	664
Comfort, John. (See Perrigo, Ephraim H., assignor.)						
Comings, William R., London, England. Glove-fastener	353,845	Dec. 7	273	72	37	1056
Comins, Frank B., New Bedford, Mass. Shoe-lace fastening	340,557	Apr. 27	2094	540	35	396
Comins, John P., Elizabeth, N. J. Iron coated fire-back	342,066	May 18	1509	.....	35	804
Commelin, Edmond. (See De Virloy, Commelin, and Bailbache.)						
Commercial Telegram Company. (See Dyer, Richard N., assignor.)						
Commercial Telegram Company. (See Field, Stephen D., assignor.)						
Commercial Telegram Company. (See Healy, Clarence L., assignor.)						
Comniskey, Frank W., Brooklyn, N. Y. Spoon	349,144	Sept. 14	837	213	36	1204
Compagnie de Fives Lille. (See Dumoulin, Adrien J. A., assignor.)						
Comparet, Lewis G., Des Moines, Iowa. Window-shutter	353,735	Dec. 7	118	33	37	1028
Complete Combustion Company. (See Post and Sawyer, assignors.)						
Compressed Steel Company. (See Billings and Hinsdale, assignors.)						
Compton, Alfred G., New York, N. Y. Weeding implement	350,186	Oct. 5	125	35	37	26
Compton, James S. (See Blakeney and Compton.)						
Compton, William A., Liberty Corner, N. J. Indented embossing-cutter	335,897	Feb. 9	1155	306	34	655
Compton, William A., Liberty Corner, N. J. Recessed embossing-tool	335,898	Feb. 9	1156	307	34	655
Compton, William A., Liberty Corner, N. J. Embossing wood. (Reissue)	10,685	Feb. 9	1396	369	34	697
Compton, William A., Liberty Corner, N. J. Embossing wood. (Reissue)	10,686	Feb. 9	1397	369	34	697
Comstock, Charles M., Windsor, N. Y. Whip-snap	354,395	Dec. 14	1084	291	37	1212
Comstock, William A., Chicago, Ill. Box-band	353,540	Nov. 30	2550	680	37	968
Comstock, William H., Norwich, Conn. Door-knob	354,937	Jan. 26	2004	534	34	393
Conacher, Alexander, Augusta, Ga. Refrigerating-machine	352,041	Nov. 2	451	122 123	37	543
Conard, Léon P., No. 11 Old North Street, Red Lion Square, county of Middlesex, England, assignor to G. W. Mable, Brooklyn, N. Y., and G. Dickman, West Norwood, England. Button or stud	353,778	Dec. 7	172	47	37	1039
Conaway, James, *et al.* (See Redmond, Daniel M., assignor.)						
Conaway, John F., *et al.* (See Redmond, Daniel M., assignor.)						
Conde, W. W. (See Merchant, Robert A., assignor.)						
Conderman, Martin I., Hornellsville, N. Y. Potato-digger	341,454	May 11	680	182 183	35	638
Condit, Alonzo S. (See Higgins and Condit.)						
Condit, Ezekiel C., Kansas City, Mo. Heating-furnace	334,644	Jan. 19	1630	434	34	315
Condit, Ezekiel C., Kansas City, Mo. Urinal	349,030	Sept. 14	678	174	36	1175
Condon, John T., Kingsley, Iowa. Hame-tug	337,248	Mar. 2	492	128	34	1016
Condon, John T., Kingsley, Iowa. Express-car	352,858	Nov. 16	1558	421	37	765
Condon, John W., Logansport, Ind., assignor to Scott Manufacturing Company of Baltimore City. Domestic hand-press	340,907	Apr. 27	2568	676	35	479
Cone, Norris H. (See Clark and Cone.)						
Cone, Owen S. M., St. Paul, Minn. Combined baby-jumper, &c	347,092	Aug. 10	856	227	36	630

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Conery, Rilon H. (See Trobridge and Conery.)						
Congar, Orville H., Pasadena, Cal. Grafting implement	340,699	Apr. 27	2292	604	35	428
Congar, Orville H., Pasadena, Cal. Grafting implement	340,700	Apr. 27	2294	604	35	428
Congdon, Isaac H., Omaha, Nebr. Sliding-door fastener	346,192	July 27	1980	511	36	380
Conger, Albert R., Eaton, Ohio. Fence-machine	340,421	Apr. 20	1889	485	35	352
Conger, George H. (See Roswell and Conger.)						
Conger, Job C., and G. W. Henderson, Columbia, Mo. Conveyer	351,965	Nov. 2	340	94	37	521
Conkle, Harry C., Philadelphia, Pa. Dumping-wagon	343,011	June 1	322	83	35	1065
Conkle, William H., Washington, D. C. Syringe	337,249	Mar. 2	492	123	34	1017
Conklin, Edward R., Wauseon, Ohio. Wheel-cultivator	346,193	July 27	1982	512	36	380
Conklin, Joseph I., Jr., assignor of one-half to Lewis & Fowler Manufacturing Company, Brooklyn, N. Y. Electric telegraph-relay	353,288	Nov. 30	2181	584	37	809
Conklin, Ledun M., and S. Terwilliger, Matteawan, N. Y. Hat-forming machine	337,382	Mar. 9	672	176	34	1057
Conklin, Samuel A., *et al.* (See Smith, Daniel J., assignor.)						
Conklin, Theodore F., Fond du Lac, Wis. Caster	349,982	Sept. 28	1986	513	36	1442
Conkling, Edward A., Madisonville, Ohio. Bottle-packing box	334,748	Jan. 26	1756	452	34	351
Conkling, Llewellyn W., Chicago, Ill. Exercising-machine	351,311	Oct. 19	1718	451	37	327
Conlee, Harrison, Petersburg, Ill. Instrument for obtaining lengths and bevels of rafters.	348,723	Sept. 7	958	69	36	1005
Conley, John, Pullman, Ill. Compound tool	333,830	Jan. 5	460	125	34	85
Conley, Joseph F., Minneapolis, Minn. Billiard-table leveler	342,331	May 25	1887	499	35	882
Conn, Charles G., Elkhart, Ind. Cornet	343,888	June 15	1606	408	35	1313
Conn, Charles G., Elkhart, Ind. Wind-instrument	343,889	June 15	1607	409	35	1313
Conn, Charles G., Elkhart, Ind. Truck	343,890	June 15	1607	409	35	1314
Conn, Charles G., Elkhart, Ind. Drum-head tightener	353,204	Nov. 23	2068	552	37	871
Conn, John, Valparaiso, Ind. Door-check	343,298	June 8	768	192	35	1154
Connell, James D., New Orleans, La. Spark-arrester	339,268	Apr. 6	220	55	35	41
Connelly, John S. (See Connelly, Thomas E., assignor.)						
Connelly, John S., Brooklyn, N. Y. Brake for cars	352,225	Nov. 9	739	198	37	661
Connelly, John S., Brooklyn, assignor of one-half to T. E. Connelly, New York, N. Y. Street-car motor	345,379	July 13	668	169	36	127
Connelly, John S., Brooklyn, N. Y., assignor of one-half to T. E. Connelly, Pittsburg, Pa. Gas-governor	345,369	July 13	790	199	36	149
Connelly, John S., Brooklyn, assignor of one-half to T. E. Connelly, New York, N. Y. Car-motor	347,470	Aug. 17	1396	372	36	733
Connelly, John W. (See Peterson and Connelly.)						
Connelly, Thomas E. (See Connelly, John S., assignor.)						
Connelly, Thomas E., Pittsburg, Pa., assignor of one-half to J. S. Connelly, New York, N. Y. Automatic gas-governor	345,368	July 13	788	199	36	149
Connelly, Thomas H., Phœnix Park, Pa. Device for transmitting power	354,692	Dec. 21	1530	406	37	1299
Conner, Albert C., assignor to Hoosier Drill Company, Richmond, Ind. Wire-and-slat-fence machine	346,429	July 27	2319	597	36	443
Conner, Albert C., and J. M. Westcott, assignors to Hoosier Drill Company, Richmond, Ind. Wire-and-slat-fence machine	346,428	July 27	2316	597	36	442
Conner, Allen. (See Dare, John S., Sr., assignor.)						
Conner, David, Groton, Conn., and F. A. S. Perry, New York, N. Y. Combined shutter hover and fastener	354,396	Dec. 14	1085	291	37	1212
Conner, Frederick H., Worcester, Mass. Pipe-cutter	338,716	Mar. 30	2504	663	34	1403
Conner, Joseph, assignor to J. Matthews, New York, N. Y. Bottle-stopper	351,496	Oct. 26	2022	525	37	387
Conner, Lendell A., Jr. (See Cotterill and Conner.)						
Conner, William, assignor of one-half to S. Sparks, Pearson, Ohio. Car-coupling	340,099	Apr. 20	1431	362	35	267
Conner, William P., assignor to School Furnishing Company, Bloomsburg, Pa. Foot-rest for school-desks	338,487	Mar. 23	2179	570	34	1341
Conner, William P., assignor to School Furnishing Company, Bloomsburg, Pa. Folding top for school-desks	338,715	Mar. 30	2503	662	34	1403
Connery, James W., Philadelphia, Pa. Steam-boiler	349,568	Sept. 21	1414	366	36	1325
Connett, Matthew F., Jr., assignor of one-half to H. B. Buck and W. Schulze, Springfield, Ill. Machine for turfing fabrics	337,306	Mar. 2	573	151	34	1032
Connolly, M. Daniel, Philadelphia, Pa., and T. A. Connolly, Washington, D. C., assignors, by mesne assignments, to Rocker Spring Company, Chicago, Ill. Tilting or rocking chair	354,042	Dec. 7	566	154	37	1109
Connolly, M. Daniel, Philadelphia, Pa., and T. A. Connolly, Washington, D. C., assignors, by mesne assignments, to Rocker Spring Company, Chicago, Ill. Spring attachment for rocking-chairs	354,043	Dec. 7	569	154, 155	37	1109
Connolly, M. Daniel, Philadelphia, Pa., and T. A. Connolly, Washington, D. C., assignors, by mesne assignments, to Rocker Spring Company, Chicago, Ill. Spring attachment for chairs	354,044	Dec. 7	571	155	37	1109
Connolly, Patrick, Brooklyn, N. Y. Clamp for wash-basins, &c	347,921	Aug. 24	2054	545	36	863
Connolly, Thomas A. (See Connolly, M. Daniel and T. A.)						
Connolly, William, South Norwalk, Conn. Bobbin-winder	335,019	Jan. 26	2118	564	34	413
Connolly, William, South Norwalk, Conn. Bobbin-winder	336,296	Feb. 16	1755	459	34	764
Conover & Co., J. S. (See MacKusick, Elmer F., assignor.)						
Conover, David, Mount Vernon, Ind. Churn	340,767	Apr. 27	2386	629	35	446
Conover, George W., Philadelphia, Pa. Tobacco-pipe	348,189	Aug. 31	2148	658	36	947
Conover, Jacob A., Rochester, N. Y. Hobby-horse	348,513	Aug. 31	2902	780	36	1031
Conover, James F., New York, N. Y. Music-rack for pianos	352,300	Nov. 9	836	225	37	620
Conover, Stephen B., assignor to himself and L. Bedell, New York, N. Y. Machine for cutting oval shell dishes	335,431	Feb. 2	479	124, 105	34	527
Conpropst, Thomas M., Boston, Mass., assignor to Singer Manufacturing Company of New Jersey. Presser-foot for sewing-machines	338,163	Mar. 16	1732	452	34	1253
Conrad, Martin. (See Hotz and Conrad.)						
Conrad, Martin, Chicago, Ill. Wagon	334,350	Jan. 12	1224	330	34	235
Conrad, Martin, assignor of one-half to Schuttler & Hotz, Chicago, Ill. Dumping-cart	341,834	May 11	1187	317, 318	35	733
Conrad, Martin, and C. Hotz, Chicago, Ill. Wagon-hub	355,141	Dec. 28	2162	570	37	1430
Conrad, Samuel, Kirk's Mills, Pa. Holdback for vehicles	346,268	July 27	2093	538	36	401
Conrath, Marlborough, North Audley Street, county of Middlesex, England. Material for decorating walls and other surfaces	350,480	Oct. 12	537	.....	37	107
Conrath, Marlborough, North Audley Street, county of Middlesex, England. Making counterpart embossing-rollers	350,481	Oct. 12	538	.....	37	107
Conroy, John, Bay City, Mich. Heating apparatus	345,833	July 20	1488	385	36	279
Conroy, Thomas. (See Doherty, John, assignor.)						
Conroy, Thomas F. (See Wells, Henry P., assignor.)						
Conroy, Thomas J., New York, N. Y. Fishing-fly book	335,506	Feb. 2	579	151	34	544
Conroy, William J., Liberty Corner, N. J. Vehicle-spring	350,660	Oct. 12	796	216	37	152

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Consolidated Railway Telephone and Signal Company. (See Vogel, William, assignor.)						
Consolidated Refrigerating Company. (See Johnson, Henry C., assignor.)						
Consolidated Refrigerating Company. (See Wren William C., assignor.)						
Consolidated Safety Valve Company. (See Richardson, George W., assignor.)						
Contant, Claude. (See Simon and Contant.)						
Conver, Peter, assignor of one-half to L. B. Young, Farmington, Ill. Watch-movement	334,749	Jan. 26	1777	473	34	351
Converse, B. C. (See Rogers, Timothy, assignor.)						
Converse, Bolivar C. (See Mains and Converse.)						
Converse, Bolivar C., Springfield, Ohio. Harrow	346,895	Aug. 10	569	152, 153	36	578
Converse, Edmund C., Pittsburg, Pa. Joint for gas-mains	348,951	Sept. 14	565	150	36	1157
Converse, George C., assignor, by mesne assignments, to L. Converse, Brookfield, Mass. Circular-knitting machine	339,046	Mar. 30	2980	788	34	1488
Converse, George C., assignor, by mesne assignments, to L. Converse, Brookfield, Mass. Circular-knitting machine	351,624	Oct. 26	2210	572	37	423
Converse, Henry W., Chicago, Ill. Oversleeve	348,618	Sept. 7	119	34	36	1069
Converse, Lucy. (See Converse, George C., assignor.)						
Converse, Lyman P., New York, N. Y. Air-heater for stoves	336,392	Feb. 16	1883	492	34	789
Converse, Maschil D., Yonkers, N. Y. Snap-hook	340,558	Apr. 27	2095	540	35	396
Converse, Morton E., Winchendon, Mass. Toy	348,952	Sept. 14	566	150	36	1157
Converse, Morton E., Winchendon, Mass. Table	350,578	Oct. 12	673	184	37	129
Converse, Morton E., Winchendon, Mass. Clamp	350,579	Oct. 12	674	184	37	129
Convert, Adolf, and E. Rueff, New York, N. Y. Apparatus for distributing, &c., liquid carbonic acid	334,351	Jan. 12	1227	330	34	235
Convis, Perry T., Frankfort, Ind. Holdback	348,953	Sept. 14	568	151	36	1157
Conway, Jesse, assignor of one-half to J. N. Conway, Baltimore, Md. Mechanical movement	342,734	May 25	2478	658	35	989
Conway, Jesse, assignor of two-thirds to J. N. Conway and J. S. Bullock, Baltimore, Md. Nut-lock	336,037	Feb. 9	1334	353	34	686
Conway, John N., *et al.* (See Conway, Jesse, assignor.)						
Conway, Wilson J., Milwaukee, Wis. Construction of flooring and sheathing	340,559	Apr. 27	2096	540	35	396
Conwell, Elmer E., Pittsburg, Kans. Folding table	353,923	Dec. 7	393	104	37	1079
Cook, Abner S., Burlington, Iowa. Letter-box	350,041	Sept. 28	2059	532	36	1456
Cook, Charles C., Baltimore, Md. Cigar	346,025	July 20	1758	452	36	327
Cook, Cornelius, Fremont, Nebr. Snow-plow	346,726	Aug. 3	348	94	36	529
Cook, Dey, St. Joseph, Mo. Spring for vehicles	340,560	Apr. 27	2097	540, 541	35	397
Cook, Egbert C., Oak Park, Ill. Hammock stretcher or adjuster	337,815	Mar. 16	1258	326	34	1165
Cook, Francis H., Rutland, Vt. Feed mechanism for stone-sawing machines	336,840	Feb. 23	2494	656, 657	34	906
Cook, Frank A. (See Gould and Cook.)						
Cook, Frank H. (See Gould and Cook.)						
Cook, Frederic, New Orleans, La. Cuff-button	351,579	Oct. 26	2145	555	37	411
Cook, Frederic, and B. Thoens, New Orleans, La. Feed-water regulator	354,099	Dec. 14	653	177	37	1134
Cook, Frederic, and B. Thoens, New Orleans, La.; said Thoens assignor to said Cook. Feed-water regulator	342,684	May 25	2394	634, 635	35	973
Cook, Frederick. (See Warner and Cook.)						
Cook, Frederick, Taylorville, Ill. Harvester	354,397	Dec. 14	1086	291, 292	37	1212
Cook, George W., assignor to M. Cummings, Chicago, Ill. Rope check or lock	349,031	Sept. 14	679	175	36	1175
Cook, Gustavus, Watertown, N. Y. Spirit-level	353,846	Dec. 7	275	73	37	1057
Cook, Henry, Philadelphia, Pa. Amalgamator	351,580	Oct. 26	2146	556	37	411
Cook, Henry C. (See Stuart, Levi B., assignor.)						
Cook, Henry F., New York, N. Y. Car-brake	347,575	Aug. 17	1541	409, 410	36	766
Cook, Henry F., assignor to Fabys Watch Case Company, Sag Harbor, N. Y. Watch-case spring	339,860	Apr. 13	1102	275	35	202
Cook, Hiram D., Dry Brook, N. Y., assignor to S. Pennock & Sons Company, Kennett Square, Pa. Road-scraper	342,068	May 18	1515	404	35	805
Cook, John A., Buffalo, N. Y. Revolving blotter	342,781	June 1	11	4	35	1008
Cook, Joseph A., Auburn, N. Y. Salt-drier	337,560	Mar. 9	936	239	34	1101
Cook, Joseph A., Auburn, N. Y. Apparatus for the manufacture of sugar and salt	342,683	May 25	2393	634	35	973
Cook, Joseph A., Auburn, N. Y. Apparatus for the manufacture of sugar	343,108	June 1	473	120	35	1092
Cook, Joseph S., Atlanta, Ga. Shaft-coupling	355,062	Dec. 28	2044	537	37	1407
Cook, Leroy, Worcester, Mass. Bale-tie	349,569	Sept. 21	1415	366	36	1326
Cook, Moses G., Ashfield, Mass. Weighing-scale	349,570	Sept. 21	1416	366, 367	36	1326
Cook, Philander B., Hastings, Minn. Whiffletree-hook	347,774	Aug. 24	1838	489	36	828
Cook, Richard T., Virginia City, Mont. Ter. Neck-yoke	334,938	Jan. 26	2005	534	34	393
Cook, Sabina W., Dayton, Wash. Ter. Washing-machine	355,061	Dec. 28	2044	537	37	1407
Cook, Stephen S., Philadelphia, Pa. Boiler-tube cleaner	346,727	Aug. 3	349	95	36	529
Cook, Thomas A., Ottawa, Ontario, and F. Labelle. Hull, Quebec; said Labelle assignor to said Cook and J. Coursolle, Ottawa, and J. H. Kerr, Hull, Canada. Match-machine	345,485	July 13	955	241, 242	36	177
Cook, Thomas W. G., New York, N. Y. Button	350,042	Sept. 28	2060	532	36	1456
Cook, Truman D., Topeka, Kans. Boring and routing bit	340,100	Apr. 20	1432	362	35	267
Cook, William, and C. E. Burt, New Lisbon, Ind. Machine for weaving fences	342,069	May 18	1516	405	35	806
Cook, Winfield S. (See Westbrook and Cook.)						
Cooke, Adniram, Rochester, N. Y. Reversible seat	341,319	May 4	495	134	35	594
Cooke, David B., *et al.* (See Stiles, Frederick, assignor.)						
Cooke, Edward C., assignor of one-half to W. W. Woodford, Unionville, Conn. Frame for neck-wear	334,352	Jan. 12	1228	330	34	235
Cooke, George A., Hope, N. J. Fence	343,107	June 1	472	120	35	1092
Cooke, George E., Clarksville, Tenn. Riving-machine	335,795	Feb. 9	1004	266	34	627
Cooke, George E., Clarksville, Tenn. Shingle-sawing machine	342,067	May 18	1509	403, 404	35	804
Cooke, Henry D. (See Maloney, James A., assignor.)						
Cooke, John W., Plainville, Conn. Artificial mother	333,602	Jan. 5	140	38	34	28
Cooke, Robert W. (See Vansant and Cooke.)						
Cooke, Watts, and D. Carlough, Paterson, N. J. Machine for upsetting eye-bars	345,573	July 13	1107	283	36	205
Cooke, William, Orr Lake, assignor of two-thirds to J. T. Lennox and A. Simpson, Barrie, Ontario, Canada. Steam-boiler	341,132	May 4	225	67	35	546
Cookerly, Charles E., Kansas City, Mo. Buttoner	354,306	Dec. 14	972	258	37	1190
Cookson, Frederick N., Wolverhampton, county of Stafford, England. Type-writing machine	344,627	June 29	2632	681, 682	35	1516
Cool, Peter, Manhattan, Kans. Lock	345,119	July 6	444	115	36	81

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cool, Peter, assignor to J. H. Broadus, Manhattan, Kans. Car wheel and axle	344,768	June 29	2811	728	35	1547
Cooley, Charles H. (See Trude and Cooley.)						
Cooley, Harry W., Easton, Pa. Metal loop and catch	347,471	Aug. 17	1397	372	36	738
Cooley, Henry W. (See Loomis and Cooley.)						
Cooley, Ide V., Berlamont, Mich. Clothes-drier	344,698	June 29	2636	682	35	1516
Cooley, James A., Knoxville, Tenn. Railway-fence	351,096	Oct. 19	1429	375	37	273
Cooley, Orville, assignor to Johnston Harvester Company, Batavia, N. Y. Cord-holder for grain-binders	335,273	Feb. 2	264	69, 70	34	488
Cooley, Orville, assignor to Johnston Harvester Company, Batavia, N. Y. Chain belt-tightener	339,861	Apr. 13	1103	275	35	202
Cooley, Orville, assignor to Johnston Harvester Company, Batavia, N. Y. Harvester-reel	344,441	June 29	2378	612	35	1468
Cooley, Orville, assignor to Johnston Harvester Company, Batavia, N. Y. Cord-holder for grain-binders	345,674	July 20	1264	327, 328	36	240
Cooley, Orville, assignor to Johnston Harvester Company, Batavia, N. Y. Grain-binding harvester	350,812	Oct. 12	1008	270	37	190
Cooley, Orville, assignor to Johnston Harvester Company, Batavia, N. Y. Cord-holder for grain-binders	352,081	Nov. 2	508	136	37	554
Cooley, S. W. (See Jones, David, assignor.)						
Coolidge, Calvin, Cleveland, Ohio. Carriage-wheel	353,779	Dec. 7	174	47	37	1039
Coolidge, Charles R. (See Romans, John B., assignor.)						
Coolidge, T. S., *et al.* (See McMillan, John L., assignor.)						
Coombe, Elijah. (See Beeler, John, assignor.)						
Coombs, Frank A., *et al.* (See Mahlon, James W., assignor.)						
Coombs, Samuel, Kensington Road, county of Surrey, England. Door-check	349,384	Sept. 21	1166	302	36	1277
Coombs, Thomas P., assignor of one-half to G. E. Brown, Woburn, Mass. Rotary engine	336,896	Mar. 2	19	6	34	930
Coon, Albert A., Hutsonville, Ill. Wrench	352,518	Nov. 16	1105	299	37	681
Coon, James H., Des Moines, Iowa. Double-walled magazine for burning hay	346,985	Aug. 10	688	183	36	600
Coon, John. (See Munday and Coon.)						
Coon, Roscoe, J. H. Hedges, and W. M. Bernard, San Francisco, Cal. Car-coupling	336,091	Feb. 16	1431	378	34	709
Cooney, Patrick J., St. Louis, Mo. Brake for hose-carriages	341,455	May 11	6-2	183	35	638
Cooney, Patrick J., St. Louis, Mo. Stop for reels of hose-carriages	341,456	May 11	682	183	35	639
Cooper, Albert. (See Metzger and Cooper.)						
Cooper, Albert C., *et al.* (See Eddleman, Francis N., assignor.)						
Cooper, Alfred J., Duryea, Pa. Vehicle-spring	351,581	Oct. 26	2148	556	37	411
Cooper, Benjamin F., Center, Tex. Hydraulic motor	341,732	May 11	1058	280, 281	35	713
Cooper, Charles A., New York, N. Y. Safety-fastening for lace-pins, &c	353,052	Nov. 23	1850	500	37	827
Cooper, Charles J., Chicago, Ill. Buckle	334,750	Jan. 26	1778	473	34	351
Cooper, Charles W., Brooklyn, N. Y. Apparatus for elevating water	343,568	June 15	1174	296	35	1234
Cooper, Charles W., Brooklyn, N. Y. Hydraulic engine	343,569	June 15	1176	296, 297	35	1234
Cooper, Charles W., New York, N. Y. Valve mechanism for engines	344,080	June 22	1879	483	35	1370
Cooper, Edward F. (See Shaffer, Joseph, assignor.)						
Cooper, Gage M., Port Huron, Mich. Grate for stoves	341,733	May 11	1059	281	35	713
Cooper, George H., New Westminster, British Columbia, Canada. Steam-boiler	339,383	Apr. 6	383	94	35	71
Cooper, George L., assignor to E. Miller & Company, Meriden, Conn Lamp-shade ornament	353,480	Nov. 30	2461	657	37	951
Cooper, George N., Haverhill, assignor, by mesne assignments, to Wire Goods Company, Worcester, Mass. Wire-nail machine	333,730	Jan. 5	323	89	34	60
Cooper, Henry M., and L. J. Kohl, assignors to F. A. Sears and J. T. Steel, New Albany, Ind. Burglar-alarm	347,688	Aug. 17	1716	458	36	798
Cooper, James A., Lima, Ohio. Store-counter	346,896	Aug. 10	572	153	36	579
Cooper, James C., *et al.* (See Eddleman, Francis N., assignor.)						
Cooper, James H., *et al.* (See Eddleman, Francis N., assignor.)						
Cooper, James J. (See Porter, Alonzo W., assignor.)						
Cooper, John. (See Smith, Philip, assignor.)						
Cooper, John W., Boston, Mass. Piano-case	348,110	Aug. 24	2321	622	36	918
Cooper, John W., Boston, Mass. Piano-action	348,111	Aug. 24	2323	623	36	918
Cooper, Jordon, Lansdale, Pa. Strap clamping and stretching device	335,179	Feb. 2	133	33	34	465
Cooper, Richard, Greenville, Tex. Cotton-scraper	335,507	Feb. 2	580	152	34	544
Cooper, Theodore, New York, N. Y. Draw-bridge, turn-table, &c	350,528	Oct. 12	599	166	37	116
Cooper, Thomas G., Jarvis, Ontario, Canada. Memorandum-book	336,393	Feb. 16	1824	493	34	789
Cooper, Thomas O., Wilmington, Del. Cable-grip	350,813	Oct. 12	1009	270	37	191
Cooper, William D., Wayne, Mich. Speculum	350,721	Oct. 12	879	235	37	167
Cope, Benjamin. (See Allen, Enoch, assignor.)						
Cope, Henry F., assignor to Detroit Stove Works, Detroit, Mich. Device for operating sectional blowers	345,574	July 13	1109	283	36	205
Copeland & Bacon. (See Bacon, Earle C., assignor.)						
Copeland, Charles, Barker Creek, Mich. Crutch	348,267	Aug. 31	2558	687	36	967
Copeland, Charles F., *et al.*, trustees. (See Fiske, Henry P., assignor.)						
Copeland, David W., Syracuse, N. Y., assignor to Copeland Manufacturing Company. Railway-gate	353,481	Nov. 30	2461	657, 658	37	951
Copeland, George W. (See Woodward and Copeland.)						
Copeland, George W., Malden, Mass., assignor, by mesne assignments, to Copeland Improved Lasting and Tacking Company, of Maine. Tack-strip	354,462	Dec. 14	1177	315	37	1228
Copeland Improved Lasting and Tacking Company. (See Copeland, George W., assignor.)						
Copeland Manufacturing Company. (See Bickford, John L., assignor.)						
Copeland Manufacturing Company. (See Copeland, David W., assignor.)						
Copeland Manufacturing Company. (See Preston, King H. C., assignor.)						
Copers, John S., New Orleans, La. Automatic electrical signal-coupler	352,990	Nov. 23	1750	469	37	809
Copes, Robert. (See Zeigler and Copes.)						
Copland, Henry S. S., and J. C. Gilmour, London, England. Car-coupling	346,986	Aug. 10	689	183	36	600
Copper, Frank P., and A. Bair, Tiffin, Ohio. Signal-lantern	345,575	July 13	1109	284	36	205
Copper, Luther S., Cleveland, Ohio. Bicycle-saddle	351,251	Oct. 19	1633	429	37	312
Copper, Luther S., assignor of one-half to F. W. Bowler, Cleveland, Ohio. Saddle-spring for bicycles	350,868	Oct. 12	1088	290	37	206
Coram, Joseph A. (See Dennis and Coram.)						
Corbett, Edgar M., Brooklyn, N. Y. Scissors	346,583	Aug. 3	167	45	36	492
Corbett, George, Bradford, Pa. Pipe-derrick	346,466	Aug. 3	19	5	36	464
Corbett, Henry H. (See Parker, John J., assignor.)						
Corbett, John T., Aurora, Ill. Feeding fuel	340,101	Apr. 20	1433	362	35	267
Corbett, John T., Aurora, Ill. Fire-box for boilers	340,102	Apr. 20	1434	362	35	268
Corbett, William J., Tucson, Ariz. Ter. Swimming apparatus	335,015	Jan. 26	2112	563	34	412
Corbin, Amasa, Jr., Gouverneur, N. Y. Disk harrow and seeder	351,625	Oct. 26	2215	573	37	423

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Corbin, Amasa, Jr., assignor to St. Lawrence Manufacturing Company, Gouverneur, N. Y. Combined land-roller and seeder	350,914	Oct. 19	1150	306	37	224
Corbin Cabinet Lock Company. (See Mix, Frank W., assignor.)						
Corbin, Jay S., Gouverneur, N. Y. Disk harrow	341,888	May 18	1267	339 / 340	35	760
Corbin, P. & F. (See Boncsteel, Albert E., assignor.)						
Corbin, P. & F. (See Mix and Arens, assignors.)						
Corbus, John. (See Ramsey, John W., assignor.)						
Corby, Thomas W., Grosse Pointe, Mich. Brick-mold	352,042	Nov. 2	452	123	37	544
Corcoran, John C. (See Corcoran, Patrick W., assignor.)						
Corcoran, John H., Oakland Valley, Iowa. Machine for winding or stretching fence-wire	344,629	June 29	2637	682	35	1516
Corcoran, Patrick W., Seneca, Ill. Harness-saddle	337,047	Mar. 2	222	58	34	966
Corcoran, Patrick W., Seneca, Ill. Harness check-hook	352,519	Nov. 16	1106	299	37	681
Corcoran, Patrick W., assignor of one-half to J. C. Corcoran, Seneca, Ill. Hame-clip	353,249	Nov. 23	2121	568	37	882
Cordes, August W. (See De Lemos and Cordes.)						
Cordier, Charles X., *et al.* (See Reinhardt, James H., assignor.)						
Cordner, John G. (See Evans and Cordner.)						
Cordon, François. (See Scotland and Cordon.)						
Corey, George D., Lowell, Mass. Fruit-jar	349,630	Sept. 21	1490	386	36	1341
Corey, James B. (See Masters and Corey.)						
Corfield, Charles S. (See Calef, Joseph W., assignor.)						
Corkhill, Henry R., Rochester, N. Y. Machine for packing tobacco in bags	341,457	May 11	6-3	184	35	639
Corkhill, Henry R., Sr., Rochester, N. Y. Feeder and paster for paper-bag machines	350,974	Oct. 19	1236	328 / 329	37	239
Corkhill, Thomas E., Jr., Mount Ayr, Iowa. Car-coupling	350,529	Oct. 12	600	166	37	116
Corley, Martin F., La Salle, Ill. Head-protector for horses	341,186	May 18	1659	443	35	832
Corliss, Charles P., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Stop-watch	339,862	Apr. 13	1104	275	35	202
Corliss, Charles P., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Stem-winding and setting watch	345,619	July 13	1163	298 / 299	36	216
Corliss, George H., Providence, R. I. Dash-pot	333,831	Jan. 5	461	125	34	86
Corliss, George H., Providence, R. I. Stuffing-box for steam-engines	333,832	Jan. 5	463	125	34	86
Corliss, George H., Providence, R. I. Steam-boiler	333,833	Jan. 5	464	126	34	86
Corliss, George H., Providence, R. I. Governor-regulation	333,834	Jan. 5	465	126	34	86
Corliss, George H., Providence, R. I. Steam-engine governor	333,835	Jan. 5	466	126	34	87
Corliss, George H., Providence, R. I. Governor for steam-engines	344,249	June 22	2108	539	35	1412
Cormack, George H., Rockford, Ill. Grain-cutting machine	351,312	Oct. 19	1719	451 / 452	37	327
Cormack, George H., Rockford, Ill. Preparing grain products	353,924	Dec. 7	394	104	37	1079
Corman, Charles A., Cochituate, Mass. Punching and eyeleting machine	348,190	Aug. 31	2149	658	36	947
Cornell, Charles W., Wauseon, Ohio. Clamp	342,187	May 18	1660	443	35	833
Cornell, Elijah B., assignor to E. B. Cornell Manufacturing Company, (limited,) Philadelphia, Pa. Air-injector for furnaces	353,351	Nov. 30	2270	606	37	914
Cornell, Evan W., Adrian, Mich. Automatic grain-weigher	346,728	Aug. 3	350	95	36	529
Cornell Manufacturing Company, E. B. (See Cornell, Elijah B., assignor.)						
Cornely, Emil, Paris, France. Feed-motion for sewing or embroidering machines	336,554	Feb. 23	2100	552	34	834
Cornely, Emil, Paris, France. Embroidering-machine	338,488	Mar. 23	2180	570	34	1342
Cornely, Emil, Paris, France. Method of and machine for fixing cords or braids to textile fabrics, &c.	340,422	Apr. 20	1800	486	35	352
Cornely, Emil, Paris, France. Embroidering-machine	345,886	July 20	1563	402 / 403	36	292
Cornely, Emil, Paris, France. Stop-motion mechanism for sewing and embroidering machines	345,887	July 20	1565	403	36	293
Cornely, Emile, Paris, France. Thread-cutting apparatus for sewing and embroidering machines	346,091	July 27	1839	475	36	353
Cornett, Robert H., Livingston, Kans. Laundering-machine	351,626	Oct. 26	2218	573	37	424
Cornils, Peter V., Chicago, Ill. Car-coupling	348,954	Sept. 14	568	151	36	1157
Cornman, Theodore, *et al.* (See Kyle, Edward E., assignor.)						
Cornish, John B., Barnstable, Mass. Combined collar-button and necktie-fastener	352,301	Nov. 9	837	225	37	620
Cornish, Oscar S., *et al.* (See Curtis, David W., assignor.)						
Cornuelle, Louis, Madisonville, Ohio. Privy-vault and water-closet	341,458	May 11	686	184	35	639
Corpening, Edward M., Bridgeport, W. Va. Fence	350,119	Oct. 5	29	8	37	8
Corrugated Wire Fastening Company. (See Weeks, Horace, assignor.)						
Corsbie, James H. (See Brewer and Corsbie.)						
Corscadden, Robert, Providence, R. I. Apparatus for collecting and drying sedimentary matter of sewage, &c.	340,290	Apr. 20	1716	437 / 438	35	318
Corser, Edson J., assignor of one-half to S. N. Gallup, Macedon, N. Y. Seed-drill	341,373	May 4	564	155 / 156	35	606
Corson, William P., assignor of one-half to H. Gardner, New York, N. Y. Milling-tool for heels of boots and shoes	347,689	Aug. 17	1717	458	36	798
Corthell, Samuel N., Quincy, Mass. Heel-trimming cutter	343,758	June 15	1448	361	35	1282
Cortright, Lewis D., Chicago, Ill. Ridge and valley for roofing	333,603	Jan. 5	141	38	34	28
Cortright, Lewis D., Hyde Park, Ill. Machine for making ridges and valleys for buildings	343,700	June 15	1359	339	35	1266
Cortright, Lewis D., Hyde Park, Ill. Machine for making roofing-plates for buildings	343,701	June 15	1360	339	35	1266
Cory, Edward S., assignor of one-half to H. M. Reynolds, Big Rapids, Mich. Sash-fastener	341,557	May 11	816	218	35	664
Cosart, John H., Lyons, N. Y. Sluice	336,314	Feb. 16	1628	423	34	742
Cosby, Laura E., Oakland City, Ind. Burglar-alarm	344,630	June 29	2-39	6-2	35	1517
Cosford, Joseph C., and J. P. Kern, Marquette, Mich. Steam-engine governor	335,892	Feb. 9	1147	305	34	653
Cosgrove, Edward J., Augusta, Ga. Automatic air and steam brake	343,230	June 8	661	165	35	1135
Cosper, William H. (See Wilcox, William B., assignor.)						
Cass, Charles G., Lima, Ohio. Sand-reel for Artesian wells	353,205	Nov. 23	2069	552	37	871
Cossitt, Franklin M. (See Eastman and Cossitt.)						
Costa, Bartholomeo. (See Catrari, Antonio, assignor.)						
Costain, Richard J., assignor of one-half to A. Whitney, Hartford, Conn. Roller-skate	337,742	Mar. 9	1153	299	34	1139
Costello, John, Wabasha, and J. M. Aker, Reed's Landing, Minn. Sled-brake	347,322	Aug. 17	1182	316	36	700
Costello, John, assignor of one-half to C. L. Watson and F. A. Newell, Attleborough, Mass. Cuff-button	350,915	Oct. 19	1153	307	37	224
Costello, Michael W., Boston, Mass. Ventilating chimney-cowl	339,663	Apr. 13	1105	275	35	203
Costen, Samuel B., assignor to H. H. and W. D. Costen, Scranton, Pa. Rack or stand for holding manuscript or other matter to be copied	354,045	Dec. 7	571	155	37	1109
Coster, William E., assignor of one-half to A. Bogardus, Philadelphia, Pa. Combined walking-stick and brush	343,012	June 1	323	83	35	1065
Costiesco, Antoine, Jassy, Roumania. Field-graphometer	351,690	Oct. 26	2302	598	37	441

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Pages.
Coston, H. H., *et al.* (See Costen, Samuel B., assignor.)						
Coston, W. D., *et al.* (See Costen, Samuel B., assignor.)						
Coté, Louis, St. Hyacinthe, Quebec, Canada. Heel-counter machine	341,459	May 11	687	184	35	640
Coté, Louis, St. Hyacinthe, Quebec, Canada. Heel-counter	350,618	Oct. 12	733	199	37	141
Côté, Louis, assignor of one-half to F. A. Barber, Lynn, Mass. Machine for marking shoe-vamps	348,514	Aug. 31	2903	780	36	1034
Côté, Misaël. (See Rousseau, Goodale, and Côté.)						
Cothren, William H. (See Robinson and Cothren.)						
Cotner, David R., Bardwell, Ky. Trace-carrier	354,[illegible]	Dec. 28	1912	504	37	1384
Cotter, Cyrus H., *et al.* (See Lottridge, William, assignor.)						
Cotter, Edward J., Frackville, assignor to J. J. Keating, M. J. Wayne, and J. Cobbley, Mahanoy Plane, Pa. Squib	337,307	Mar. 2	576	151	34	1032
Cottrell, Charles A., and L. A. Conner, Jr., Washington, D. C. Lead-pencil	340,423	Apr. 20	1892	486	35	352
Cottle, Jethro C., New York, N. Y. Article of jewelry	353,482	Nov. 30	2463	638	37	951
Cotton, Abraham R., Versailles, Ky. Tobacco-elevator	342,070	May 18	1517	405	35	806
Cotton Harvester Company. (See Mason, Charles T., Jr., assignor.)						
Cotton, John E., Fairfield, Me. Folding table	345,620	July 13	1166	300	36	216
Cottrau, Alfredo, Naples, Italy. Bridge, pier, or similar structure	337,666	Mar. 9	1059	272, 273, 274	34	1123
Cottrell, Abraham, Lansing, Mich. Gunstock	345,120	July 6	444	115	36	81
Cottrell, Calvert B. (See Stillman, Charles A., assignor.)						
Cottrell, Calvert B. (See Taylor, George F., assignor.)						
Cottrell, Calvert B. (See Walther, John, assignor.)						
Cottrell, Calvert B., Stonington, Conn. Stop-cylinder printing-machine	338,390	Mar. 23	2047	537	34	1317
Cottrell, Calvert B., Stonington, Conn. Sheet-straightener for sheet-delivery apparatus for printing-machines	338,391	Mar. 23	2052	538	34	1318
Cottrell, Calvert B., Stonington, Conn. Cylinder printing-machine	338,392	Mar. 23	2053	538	34	1318
Cottrell, Calvert B., Stonington, Conn. Stop-cylinder printing-machine	347,922	Aug. 24	2056	545, 546	36	868
Cottrell, Christopher C. (See Smith, Clayton P., assignor.)						
Cottrell, George R., New York, N. Y. Method of and apparatus for carbureting and mixing gas and air	340,211	Sept. 14	921	237	36	1221
Cottrell, Herbert, Newark, N. J. Expanding mandrel	340,291	Apr. 20	1720	438	35	319
Cottrell, Herbert, Newark, assignor to L. A. Sayre, Madison, N. J. Fruit-paring machine	340,937	Apr. 27	2608	687	35	486
Cottrell, Herbert, assignor to L. A. Sayre, Newark, N. J. Ice-creeper	351,966	Nov. 2	342	95	37	522
Couch, George S., Minneapolis, Minn. Combined ink eraser and burnisher	345,031	July 6	334	84	36	61
Couchois, Garrett J., Chicago, Ill., assignor to Perfection Tucker Company. Tucking attachment for sewing-machines	354,100	Dec. 14	654	177	37	1134
Couchois, Garrett J., Chicago, Ill., assignor to Perfection Tucker Company. Plaiting attachment for sewing-machines	354,101	Dec. 14	658	177	37	1135
Coudyser, Adolph, Hartford, Conn. Polycycle	345,414	July 13	858	214	36	159
Coughlin, William J. (See Curtin, Richard J., assignor.)						
Coulon, Georges, Paris, France. Locking-bolt	352,398	Nov. 9	960	257	37	645
Couls, George R. (See Bryant, Finlayson, and Couls.)						
Coulston, J. Warren. (See Walton, Thomas H., assignor.)						
Coultaus, Joseph A., Brooklyn, N. Y. Lamp-burner	336,297	Feb. 16	1758	459, 460	34	764
Coultaus, Joseph A., assignor to himself, D. M. and A. W. Rollins, Brooklyn, N. Y. Machine for winding wire upon hose	338,489	Mar. 23	2181	570, 571	34	1342
Coultaus, Joseph A., assignor to himself, D. M. and A. W. Rollins, Brooklyn, N. Y. Door-check	346,194	July 27	1984	512	36	380
Coultaus, Joseph A., assignor to himself, D. M. and A. W. Rollins, Brooklyn, N. Y. Bolt	347,996	Aug. 24	2161	575	36	887
Coulter, John A., Leanna, Kans. Band-cutter and feeder	343,985	June 22	1737	447	35	1345
Coulter, Joseph F., Burlington, Iowa. School desk and seat	335,508	Feb. 2	381	152	34	544
Coulter, William B., Bristol, Conn. Fastening device	342,332	May 25	1888	500	35	882
Countryman, George W., Birmingham, Iowa. Car-coupling	345,771	July 20	1404	364	36	265
Coupal, Joseph. (See Clifford and Coupal.)						
Coupal, Joseph. (See Coupal, Peter A. and J.)						
Coupal, Joseph, and R. Stephenson, Quincy, Mass. Machine for making and driving staples	351,361	Oct. 26	1791	470, 471	37	346
Coupal, Peter A., Boston, Mass. Staple forming and driving machine	347,323	Aug. 17	1183	316, 317	36	700
Coupal, Peter A., Boston, Mass., assignor to Boot and Shoe Sole Laying Machine Company, Portland, Me. Sole-laying machine	353,251	Nov. 23	2122	568, 569	37	882
Coupal, Peter A., Boston, Mass., and C. D. Wood, Lincoln, R. I., assignors to Boot and Shoe Sole Laying Company, Portland, Me. Sole-laying machine	335,016	Jan. 26	2113	563	34	412
Coupal, Peter A., Boston, and J. Coupal, Quincy, Mass. Cutting needle	353,250	Nov. 23	2122	568	37	882
Coupland, Charles, Seymour, Conn. Apparatus for steaming cloth	350,187	Oct. 5	126	35, 36	37	26
Courlander, Louis, Croydon, county of Surrey, England. Device for measuring circles and ovals	352,520	Nov. 16	1107	300	37	681
Coursen, Robert R., Newark, N. J. Mason's hawk	348,268	Aug. 31	2559	688	36	968
Coursolle, Joseph, *et al.* (See Cook and Labelle, assignors.)						
Courson, Jeremiah, Prairie View, Kans. Attachment for grain-drills	340,103	Apr. 20	1435	363	35	268
Court, Charles, assignor to S. Hersee, H. C. Williams, and S. Hersey, London, England. Operating on and treatment of vegetable fibrous substances	333,731	Jan. 5	325	89	34	61
Court, John W., Brooklyn, N. Y. Wire-nail machine	346,467	Aug. 3	20	6	36	464
Courtenay, William. (See Putnam, Theodore A. B., assignor.)						
Courtney, Charles E., Union Springs, N. Y. Velocipede	348,619	Sept. 7	120	34	36	1069
Courtney, Herbert F., Boston, Mass. Expansible bolt	352,226	Nov. 9	740	198	37	602
Courtney, John P. (See McDonald and Courtney.)						
Courtright, Edgar. (See Kynoch and Courtright.)						
Couse, Frederick P., Westfield, Mass. Snapper attachment for whips	341,795	May 11	1134	290	35	727
Couvier, Gustave V. A., Fils, and G. Gourand, Seloncourt, (Doubs,) France. Sorting-machine for classifying wooden stuffs	347,264	Aug. 10	1085	290, 291	36	673
Covel, Milo, Chicago, Ill. Saw-swaging device	342,188	May 18	1661	444	35	833
Covel, Milo, Chicago, Ill. Saw-swaging machine	345,121	July 6	445	115	36	81
Covell, Edgar C., *et al.* (See Sheehan, William E., assignor.)						
Covell, William W., assignor to F. I. Marcy, Providence, R. I. Hinged shoe-button	350,120	Oct. 5	30	9	37	9
Covert, Enoch, Farmer Village, N. Y. Combined gag-runner and rosette-fastening	350,043	Sept. 28	2061	533	36	1456
Covert, James E., Greenville, Mich. Gate	340,424	Apr. 20	1893	486	35	352
Cowan, Hugh C., Oxford, Ohio. Brick, concrete-block, &c.	338,490	Mar. 23	2183	571	34	1342
Cowdery, George, Burwood, T. Perry, Dubbo, and J. B. Hyslop, Nyngan, New South Wales. Car-axle box	339,269	Apr. 6	221	55	35	41

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cowen, Robert, Cambridge, Mass., assignor to Boston Woven Hose Company, Portland, Me. Steam-hose and manufacture of the same	344,250	June 22	2111	539	35	1412
Cowen, William C., Hyde Park, Mass. Car-coupling	334,751	Jan. 26	1779	473	34	351
Cowell, Newell P., and J. W. Pinkham, assignors to Cowell Platform and Coupling Company, Cleveland, Ohio. Car-coupling	335,992	Feb. 9	1272	337	34	674
Cowell Platform and Coupling Company. (See Cowell, Renssclaer A., assignor.)						
Cowell Platform and Coupling Company. (See Cowell and Pinkham, assignors.)						
Cowell Platform and Coupling Company. (See Marden and Littlefield, assignors.)						
Cowell, Renssclaer A., assignor to Cowell Platform and Coupling Company, Cleveland, Ohio. Car-coupling	335,993	Feb. 9	1273	337	34	675
Cowell, William H., Logan, Ohio. Raising steam in locomotive-boilers	347,420	Aug. 17	1315	351	36	723
Cowl, Walter Y., New York, N. Y. Incubator	337,308	Mar. 2	577	152	34	1032
Cowles, Alfred H. (See Cowles, Eugene H. and A. H.)						
Cowles, Alfred H., Cleveland, Ohio. Electric furnace and operating the same	335,058	Jan. 26	2177	578, 579	34	422
Cowles, Arthur F., *et al.* (See Switzer, John J., assignor.)						
Cowles Electric Smelting and Aluminium Company. (See Bradley and Crocker, assignors.)						
Cowles Electric Smelting and Aluminium Company. (See Mabery, Charles F., assignor.)						
Cowles, Eugene H., *et al.* (See Buckley, William F., assignor.)						
Cowles, Eugene H. and A. H., Cleveland, Ohio. Electric furnace for metallurgic operations	335,059	Jan. 26	2180	579	34	423
Cowles, Henry A. (See Upson and Cowles.)						
Cowles, Lewis R., and S. D. Butts, near Clifford, Ind. Wire-fence machine	353,206	Nov. 23	2070	553	37	871
Cowper, Edward A., Westminster, county of Middlesex, England, assignor to B. Good, New York, N. Y. Electric telegraph	353,541	Nov. 30	2550	680, 681	37	968
Cox, Albert W., Hastings, Nebr. Spring link and bar for chains	347,421	Aug. 17	1317	351	36	724
Cox, Albert W., Hastings, Nebr. Spring link and bar for chains	347,422	Aug. 17	1317	351	36	724
Cox, Alfred, Juliustown, N. J. Straddle-row wheel-cultivator	341,889	May 18	1270	340	35	761
Cox, Charles B., San Marcial, N. Mex. Ter. Irrigation of land	334,645	Jan. 19	1631	435	34	315
Cox, H. M. (See Miles, Edward J., assignor.)						
Cox, Harry B., Cincinnati, Ohio. Electric bell-cord	340,425	Apr. 20	1893	487	35	353
Cox, Harry B., Cincinnati, Ohio. Coupling for electric bell-cords	340,426	Apr. 20	1894	487	35	353
Cox, Harry B., Cincinnati, Ohio. Electric bell-cord	350,293	Oct. 5	261	76	37	54
Cox, Harry B., Cincinnati, Ohio. Electric battery	350,294	Oct. 5	263	.....	37	54
Cox, Harry B., Cincinnati, Ohio. Circuit-closer	352,043	Nov. 2	454	123	37	544
Cox, Harry B., Cincinnati, Ohio. Electro-mechanical whistle	352,044	Nov. 2	456	124	37	544
Cox, Henry F., Philadelphia, Pa. Railway switch and signal interlocking apparatus	336,701	Feb. 23	2311	605	34	872
Cox, Henry F., Philadelphia, Pa. Railway switch and signal interlocking	336,702	Feb. 23	2314	606	34	872
Cox, James M., Camilla, Ga. Cotton-gin	342,333	May 25	1889	500	35	883
Cox, John D., Winfield, Mo. Fence-post	340,292	Apr. 20	1721	438	35	390
Cox, John H., and E. S. Willey, Fairmount, Md. Steering apparatus	333,923	Jan. 5	585	160	34	110
Cox, Joseph L., assignor to Duplex Printing Press Company, Battle Creek, Mich. Web-controlling device for printing-machines	347,690	Aug. 17	1718	458, 459	36	798
Cox, Joshua J., and A. J. Allison, Pittsburg, Kans. Hose-coupler	350,188	Oct. 5	127	36	37	27
Cox, Lewis S., Philadelphia, Pa. Shirt-waist	344,251	June 22	2112	540	35	1412
Cox, Riley, Boise City, Idaho Ter. Harrow	350,295	Oct. 5	263	76	37	54
Cox, Stephen J. (See Stewart, George W., assignor.)						
Cox, Stephen J., New York, N. Y. Water-closet mat or toilet-protector	349,784	Sept. 28	1724	445	56	1390
Cox, Thomas, Gloster, Mont. Ter. Miner's candlestick	347,691	Aug. 17	1720	459	36	799
Cox, Thomas and Thomas, Jr., Gloster, Mont. Ter. Car starter and brake	350,661	Oct. 12	798	217	37	152
Cox, Walter B. (See McDonough and Cox.)						
Cox, Walter B., and J. McDonough, New York, N. Y. Mowing-machine	341,374	May 4	566	156	35	607
Cox, Walter J., Wichita, Kans. Window-shade	340,981	May 4	15	4	35	508
Cox, William H., Virden, Ill. Gate	336,471	Feb. 16	1987	520, 521	34	807
Cox, William M. (See Bagby, Nathaniel, assignor.)						
Coxe, Eckley B., Drifton, Pa. Coal-breaker	350,814	Oct. 12	1012	271	37	191
Coxey, Jasper S. (See Beggs and Coxey.)						
Coy, Frederick W., Boston, Mass. Heel-strip blank	345,122	July 6	447	115	36	82
Coy, Frederick W., assignor to G. H. P. Flagg, trustee, Boston, Mass. Roll for polishing-machines	352,227	Nov. 9	741	198	37	602
Coyle, Andrew M., Washington, D. C. Steam trap	333,924	Jan. 5	586	161	34	110
Coyle, Charles J., assignor to E. Jennings, A. B. Pullman, and A. Longstreet, Chicago, Ill. Securing bosoms to shirt-bodies	337,383	Mar. 9	674	176, 177	34	1057
Coyle, William W., East Springfield, Ohio. Log-turner	339,864	Apr. 13	1106	276	35	203
Coyne, James F., Chicago, Ill. Marble-sawing machine	334,217	Jan. 12	1028	274	34	199
Crabb, William. (See Nourse, James K. P., assignor.)						
Crabb, William, Newark, N. J. Corkscrew	337,309	Mar. 2	579	152	34	1033
Crabb, William, Newark, N. J. Making cotton-picker teeth	345,772	July 20	1405	364	36	265
Crabb, William, Newark, N. J. Machine for flattening the shanks of picker-teeth	354,463	Dec. 14	1178	316	37	1229
Crabbe, James W., Brooklyn, N. Y. Siding and roofing board	337,310	Mar. 2	581	153	34	1033
Crabtree, Hamilton S., Anna, Ill. Wagon-end-gate	335,685	Feb. 9	836	222	34	597
Crabtree, John, Philadelphia, Pa. Tool-holder	349,925	Sept. 28	1898	492	36	1426
Crabtree, Thomas A., East Surry, assignor of one-half to B. Morrill, Blue Hill, Me. Umbrella	355,142	Dec. 28	2163	570	37	1430
Craft, William S., Washington, Pa. Guard or screen for fire-places	333,925	Jan. 5	589	161	34	110
Crafts, Francis H., Williamsport, Pa. Hat	338,584	Mar. 23	2301	602	34	1362
Crafts, Samuel P., Hamden, Conn. Portable brick-kiln furnace	337,927	Mar. 16	1405	364	34	1192
Cragg, Samuel W. (See Brin, Léon Q. and A., assignors.)						
Cragin, George P., assignor to C. D. Baker and I. L. Cragin, Fergus Falls, Minn. Nut-lock	340,661	Apr. 27	2239	587, 588	35	420
Cragin, George P., assignor to C. D. Baker and I. L. Cragin, Fergus Falls, Minn. Nut-lock	340,662	Apr. 27	2240	588	35	420
Cragin, George P., assignor to C. D. Baker and I. L. Cragin, Fergus Falls, Minn. Nut-lock	340,663	Apr. 27	2241	588, 589	35	420
Cragin, Ida L., *et al.* (See Cragin, George P., assignor.)						
Cragin, Patrick H. (See Russell and Cragin.)						
Craig, Abraham, and J. H. Eastman, assignors to Boston Clock Company, Boston, Mass. Clock-winding mechanism	343,947	June 15	1674	429	35	1327
Craig, Alvin M., assignor of one-half to C. P. Hobart, Southington, Conn. Lamp-burner	344,081	June 22	1881	483	35	1370
Craig, Elizabeth A., Arlington, Kans. Feed-trough	333,604	Jan. 5	142	38	34	29
Craig, Ellsworth. (See Siegenthaler and Craig.)						
Craig, George W., Grimm's Landing, W. Va. Weighing-scale	336,472	Feb. 16	1988	521	34	807
Craig, John. (See Stairs and Craig.)						
Craig, John A., Lauderdale, Miss. Car-coupling	343,109	June 1	474	120	35	1093
Craig, John C., assignor of one-half to E. D. Hand, Fenelon Falls, Ontario, Canada. Combined latch and lock	338,141	Mar. 16	1704	443, 444	34	1247

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Craig, John P., and T. F. Strachan, Jr., Buffalo, N. Y. Extension fire-ladder	338,717	Mar. 30	2505	663	34	1403
Craig, John W., Kirkwood, Ill. Farm-gate	346,806	Aug. 3	433	119	36	544
Craig, Warren H., Lawrence, Mass. Steam-engine lubricator	340,486	Apr. 20	1986	509 510	35	369
Craig, William, Brooklyn, N. Y. Condenser for steam pumps	346,195	July 27	1985	512	36	381
Craig, William, Brooklyn, N. Y. Circulating water in boilers	350,722	Oct. 12	880	236	37	167
Craig, William, Brooklyn, N. Y. Apparatus for producing circulation in steam-boilers	351,041	Oct. 19	1360	357 358	37	261
Craik, Andrew, Williamsport, Pa. Sectional steam-boiler	334,568	Jan. 19	1524	408	34	295
Craik, Andrew, assignor to Riley & Melhuish, Williamsport, Pa. Balanced valve	334,690	Jan. 19	1692	452	34	326
Cram, Edmund C. (See Dannell, David E., assignor.)						
Cram, Edmund C. (See Startzman and Cram.)						
Cram, William, assignor of three-fourths to Wise Bros., Baltimore, Md. Trip for operating button-attaching machines	353,623	Nov. 30	2676	717	37	991
Craine, George, Fairfield, Iowa. Fence-post	341,796	May 11	1134	300	35	727
Cram, Alonzo W., Haverhill, Mass. Elbow for stove-pipes	340,487	Apr. 20	1998	510	35	370
Cram, Alonzo W., Haverhill, Mass. Spice-box	355,255	Dec. 28	2231	613	37	1464
Cram, Elisha S., *et al.* (See Sheehan, William E., assignor.)						
Cramer, Anthony F., Detroit, Mich. Device for cooling storage-chambers	346,807	Aug. 3	435	119	36	544
Cramer, Charley, Clarington, Ohio. Shutter-worker	346,643	Aug. 3	248	68	36	509
Cramer, George P., and F. B. Langworthy, Indian Ford, Wis. Harness-buckle	339,528	Apr. 6	596	144	35	110
Cramer, Hans C. F., Cincinnati, Ohio. Device for regulating the flow of liquids in ice-machines	343,437	June 8	985	245	35	1192
Cramer, Peter T., Chicago, Ill. Shipping-tray	347,324	Aug. 17	1185	317	36	700
Crampton, Albert. (See Belden, Emerson, assignor.)						
Crandal, George L., Binghamton, N. Y. Fishing-line reel	336,092	Feb. 16	1432	378	34	710
Crandall, Charles, Newport, R. I. Axle-lubricator	345,213	July 6	567	145	36	103
Crandall, Henry B., assignor of two-thirds to W. F. Head and W. H. Woolland, Cortland, N. Y. Carriage-seat iron	347,775	Aug. 24	1839	489	36	898
Crandall, Lucien S., Syracuse, N. Y. Inking apparatus for type-writing machines	342,244	May 18	1736	461	35	847
Crandall, Lucien S., Syracuse, N. Y. Telegraph key and register	344,351	June 29	2255	579	35	1445
Crandall, Nathan W., assignor of two-thirds to G. W. Jopson, Meriden, Conn. Fabric-turfing implement	348,724	Sept. 7	259	69	36	1095
Crandall, Nathan W., and G. W. Jopson, Meriden, Conn. Pocket-knife	338,251	Mar. 23	1852	486	34	1284
Crandall, William E., New York, N. Y. Velocipede	350,723	Oct. 12	882	236	37	168
Crandell, E. James. (See Kilmer and Crandell.)						
Crandell, George T., Omaha, Nebr. Stove-door	343,986	June 22	1738	447	35	1345
Crandell, William C., Jr., assignor of one-half to S. D. Strohm, Philadelphia, Pa. Railway-signaling	342,499	May 25	2137	565 566	35	925
Crane & Breed Manufacturing Company. (See Breed and Ober, assignors.)						
Crane & Breed Manufacturing Company. (See Crane and Jewett, assignors.)						
Crane & Bro., Z., Jr. (See Crane, Zenas, Jr., assignor.)						
Crane Brothers Manufacturing Company. (See Bassett, Norman C., assignor.)						
Crane Brothers Manufacturing Company. (See Papikofer, Otto, assignor.)						
Crane Brothers Manufacturing Company. (See Reynolds, George H., assignor.)						
Crane, Charles R., Chicago, Ill. Steam-engine	342,782	June 1	12	4	35	1009
Crane Chemical Company, Frederick. (See Crane, Frederick, assignor.)						
Crane & Co. (See Crane, Edward N., assignor.)						
Crane & Co. (See Turton, Benjamin, assignor.)						
Crane, Edward N., assignor to Crane & Co., Newark, N. J. Bridle-bit	350,348	Oct. 5	331	94	37	67
Crane, Frederick, Summit, assignor to F. Crane Chemical Company, Springfield, N. J. Apparatus for japanning	350,869	Oct. 12	1089	291	37	206
Crane, George W., Minneapolis, Minn., assignor to Paige Manufacturing Company, Painesville, Ohio. Horse-power	340,938	Apr. 27	2609	688	35	486
Crane, James A., assignor of one-half to R. B. Crane, Westfield, Mass. Paper back for book-covers	343,438	June 8	987	245	35	1193
Crane, James A., assignor of one-half to R. B. Crane, Westfield, Mass. Paper back for book-covers	343,439	June 8	988	246	35	1193
Crane, Joseph M. (See Mack and Ward, assignors.)						
Crane, Martin H., and D. M. Jewett, assignors to Crane & Breed Manufacturing Company, Cincinnati, Ohio. Coffin	351,742	Nov. 2	18	5	37	462
Crane, Mary, administratrix. (See Platts and Crane.)						
Crane, Richard T. (See Hayden, James T., assignor.)						
Crane, Robert, Philadelphia, Pa. Water-supply system	345,773	July 20	1407	364 365	36	266
Crane, Robert B. (See Crane, James A., assignor.)						
Crane, Thomas R., Heathsville, Va. Combined seed-distributer, harrow, and roller	345,214	July 6	569	145	36	103
Crane, William H., Auburn, N. Y. Combined sleigh and carriage	352,450	Nov. 9	1024	276	37	658
Crane, William J., New York, N. Y. Advertising device	340,701	Apr. 27	2295	604	35	429
Crane, William M., *et al.* (See Palson, Magnus J., assignor.)						
Crane, William S., and A. Eden, Detroit, Mich. Cracker-machine	339,072	Apr. 13	1249	312	35	229
Crane, Zenas, Jr., assignor to Z. Crane, Jr., & Bro., Dalton, Mass. Watermarked paper	353,666	Dec. 7	18	6	37	1010
Craney, Thomas, Bay City, Mich. Furnace-stoker	344,631	June 29	2640	683	35	1517
Craney, Thomas, Bay City, Mich. Salt-grainer	344,632	June 29	2641	683	35	1517
Craney, Thomas, Bay City, Mich. Salt-grainer	344,633	June 29	2642	683	35	1517
Craney, Thomas, Bay City, Mich. Salt-making apparatus	344,634	June 29	2643	683	35	1518
Craney, Thomas, Bay City, Mich. Steam-generator	344,635	June 29	2644	684	35	1518
Cranford, H. L. (See Meyers, John G., assignor.)						
Cranmer, James M., Rockford, Mich. Rein-holder	350,121	Oct. 5	31	9	37	9
Cranston, James F., Springfield, Mass. Painting-machine	339,529	Apr. 6	596	144	35	110
Crary, Cushman W. (See Gage and Crary.)						
Crary, Hamilton, assignor to J. H. Smith, Chicago, Ill. Burnishing-machine	342,783	June 1	13	5	35	1009
Crary, John W., Bluff Springs, Fla. Incased pile	352,045	Nov. 2	457	124	37	545
Crater, William P., Salamanca, N. Y. Steam-generator	353,667	Dec. 7	19	6	37	1010
Craven, Alfred, Irvington, assignor to W. Gardam & Sons, New York, N. Y. Surveyor's target	340,702	Apr. 27	2296	605	35	429
Craver, Charles F., Grinnell, Iowa. Harvesting-machine	347,692	Aug. 17	1721	459	36	799
Crawback, James F., Jersey City, N. J. Fifth-wheel	345,621	July 13	1167	300	36	216
Crawford, Anderson, Ceres, Va. Wagon-bed	341,890	May 18	1371	340	35	761
Crawford, Charles A., Thompson, Conn. Plate-lifter	339,973	Apr. 13	1250	312	35	229
Crawford, Edward F., Honey Bend, Ill. Check-rowing attachment for corn-planters	338,339	Mar. 23	1971	518	34	1304
Crawford, Frank. (See Slack and Crawford.)						
Crawford, George D., Malden, assignor to Ross, Turner & Co., Boston, Mass. Spool-holder	341,891	May 18	1272	341	35	761
Crawford, Harry C., and E. V. Mundy, Duluth, Minn. Frying-pan and baker	347,093	Aug. 10	858	227	36	630

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Crawford, Jay B., trustee. (See Goodale, John, assignor.)						
Crawford, Middleton, Brooklyn, N. Y. Boiler-feed regulator	334,691	Jan. 19	1694	452	34	327
Crawford, Middleton, Brooklyn, N. Y. Grain-cleaning machine	348,890	Sept. 7	476	126, 127	36	1135
Crawford, Middleton, Chicago, Ill., assignor of one-half to H. M. Collyer, New York, N. Y. Grain cleaning and scouring machine	348,826	Sept. 7	380	103, 104	36	1118
Crawford, Middleton, Brooklyn, assignor to W. R. Baird, New York, N. Y. Vise	348,827	Sept. 7	383	104	36	1119
Crawford, Middleton, Brooklyn, assignor to W. R. Baird, New York, N. Y. Vise	348,828	Sept. 7	385	104	36	1119
Crawford, Norman M., Harrisburg, Pa. Signal-lantern	346,897	Aug. 10	574	153, 154	36	579
Crawford, Royal M., assignor of one-half to N. Blass, Erie, Pa. Car-coupling	353,442	Nov. 30	2403	642	37	941
Crawford, Stephen M., Saranac, Mich. Water-sprinkler	351,362	Oct. 26	1792	471	37	346
Cray, John, Paramus, N. J. Pedal attachment for pianos	351,743	Nov. 2	19	5	37	462
Crayton, William E. (See Walker and Crayton.)						
Crea, John, Allegheny, Pa. Machine for butt-welding tubes	354,102	Dec. 14	660	178	37	1135
Creager, Harry M., Cincinnati, Ohio, assignor of one-third to E. B. Fox, Louisville, Ky. Wheel-guard and track-cleaner	340,561	Apr. 27	2098	541	35	397
Creager, Jonathan, Cincinnati, Ohio. Brick-machine	354,464	Dec. 14	1180	316	37	1229
Creamer, John F. (See Van Syckle, Leonidas H., assignor.)						
Creamer, Lewis L., and F. A. Sparks, Millville, N. J. Boat-detaching device	338,164	Mar. 16	1733	452	34	1253
Creasey, Robert E., Jersey City, N. J. Apparatus for perspective drawing	349,303	Sept. 21	1037	265	36	1252
Crebb, Richard L., F. Koch, and G. W. Miller, Bridgeport, Conn. Harness attachment for vehicles	344,944	July 6	202	52	36	37
Crecelius, Louis J., and H. G. Sachleben, St. Louis, Mo. Barb-wire machine	350,413	Oct. 5	408	116, 117, 118	37	81
Cree, James T., Worcester, Mass. Shedding mechanism for looms	341,133	May 4	226	67	35	546
Creecy, Edward W. (See Deggeo, William H., assignor.)						
Creed, William, *et al.*, trustees. (See Tickle and Leonardt, assignors.)						
Creed, William, Warmatta, near Corowa, New South Wales. Wire-stretcher	342,428	May 25	2038	537	35	907
Creelman, John A. (See Graham and Creelman.)						
Creighton, J. M., *et al.* (See Wright, William A., assignor.)						
Creighton, William H. (See Carroll and Creighton.)						
Cremar, Henry, Newport, Ky. Fireman's extension-ladder	342,685	May 25	2395	635	35	974
Cremer, John H., Braddock, Pa. Apparatus for drying air	339,619	Apr. 13	769	190, 191	35	142
Crenshaw, Josephus A. (See Sharpe and Crenshaw.)						
Crepeau, Henry T., assignor to G. W. Wood and G. H. Appleton, Haverhill, Mass. Wire-nail machine	354,828	Dec. 21	1716	454, 455	37	1335
Crescent Manufacturing Company. (See Butterfield, Charles L., assignor.)						
Cresson, George V. (See Pessano, Antonio C., assignor.)						
Creswell, David S. (See Haslam, William, assignor.)						
Creuzbaur, Robert, Brooklyn, N. Y. Rotary water-meter	350,619	Oct. 12	735	199, 200	37	141
Criado, Louis F., Brooklyn, assignor to Stout, Meadowcroft & Co., New York, N. Y. Electric mouth and throat illuminator	336,510	Feb. 16	2034	534	34	816
Cribb, Ira P., Canandaigua, N. Y. Vegetable and root cutter	352,451	Nov. 9	1025	276	37	658
Crichton, George N., Parsons, Kans. Roller gate-hinge	343,759	June 15	1449	362	35	1283
Criley, Alfred H., Fort Scott, Kans. Wrench	349,249	Sept. 14	979	256	36	1232
Cripe, Emanuel F., Goshen, Ind. Grain-shifter	340,908	Apr. 27	2570	677	35	479
Crisp, John H., Chambersburg, Trenton, N. J. Sheet-metal picket-fence	346,644	Aug. 3	249	68	36	509
Crisp, Joseph E., Somerville, Mass. Machine for making shoe-lacing hooks	342,735	May 25	2479	659	35	989
Crispin, Thomas, Detroit, Mich. Elevator	354,854	Dec. 21	1744	462	37	1340
Crist, John, and F. M. Ogle, Browning, Mo. Harvester guard-finger	336,473	Feb. 16	1989	521	34	808
Crist, Josiah B., Hummelstown, Pa. Dental articulator-gage	352,859	Nov. 16	1560	421	37	765
Crister, T. J., *et al.* (See Mitchell, William A., assignor.)						
Critchlow, John M., Beaver Falls, Pa. Decomposing and carbureting natural gas	347,693	Aug. 17	1732	459	36	799
Crittenden, William H., Ruggles, Ohio. Hopple	342,334	May 25	1889	500	35	883
Croake, P. William, *et al.* (See Jones, Charles A., assignor.)						
Crocker, Benjamin D., Walla Walla, Wash. Ter. Grain-separator and elevator-feeder	343,364	June 8	884	222, 223	35	1175
Crocker, Benjamin D., Walla Walla, Wash. Ter. Cleaning grain	343,624	June 15	1251	314	35	1248
Crocker, Benjamin D., Walla Walla, Wash. Ter. Apparatus for cleaning grain	343,891	June 15	1608	409, 410	35	1314
Crocker, Eugene B. (See Dennis, Benjamin A., assignor.)						
Crocker, Eugene B., Pawtucket, R. I. Easel	338,165	Mar. 16	1734	452	34	1253
Crocker, Eugene B., Pawtucket, R. I. Cutting-pliers	345,215	July 6	571	146	36	103
Crocker, Eugene B., Pawtucket, R. I. Lever-button	352,452	Nov. 9	1026	277	37	658
Crocker, Francis B. (See Bradley and Crocker.)						
Crocker, Francis B. (See Curtis and Crocker.)						
Crocker, Francis B., assignor to Edison Machine Works, New York, N. Y. Underground electrical conductor	355,063	Dec. 28	2046	538	37	1407
Crocker, Frederick, Olean, N. Y., assignor of one-half to C. D. Robbins, Burgettstown, Pa. Pipe-coupling for gas-mains	344,723	June 29	2749	713	35	1537
Crocker, Hannah, Plainfield, N. J. Infant's toilet-table	349,875	Sept. 28	1844	476	36	1415
Crocker, Henry, Bristol, R. I. Book-holder	348,382	Aug. 31	2711	728	36	999
Crocker, Luther O., East Braintree, Mass. Ticket-punch	350,349	Oct. 5	331	94	37	67
Crocker, Orin. (See Wright, William H., assignor.)						
Crocker, Orin, Freeport, Ill. Cord and rope holder	353,925	Dec. 7	395	104	37	1079
Crocker, William O. and W. P., Turner's Falls, Mass. Producing sulphite or bisulphite of sodium	339,974	Apr. 13	1251	.....	35	229
Crocker, William O. and W. P., Turner's Falls, Mass. Making bisulphites	339,975	Apr. 13	1252	.....	35	229
Crocker, William P. (See Crocker, William O. and W. P.)						
Crockett, Charles H., and C. C. Allen, Boston, Mass. Electric alarm	346,532	Aug. 3	106	28	36	480
Crockett, Charles H., and C. C. Allen, Boston, Mass. Gas-lighting device	346,533	Aug. 3	107	28	36	480
Crockett, Horace M., Lawrence, Mass. Slipper-hanger	352,738	Nov. 16	1403	379	37	737
Crofoot, Adelbert B. (See Stelle, Edward T., assignor.)						
Crofoot, Charles G. (See Earle and Crofoot.)						
Croft, John F. (See Barber and Croft.)						
Croft, John M., London, county of Middlesex, England. Wooden pavement	343,162	June 8	566	142	35	1119
Crofut, David F., Bridgeport, Conn. Ticket-holder	349,924	Sept. 28	1898	492	36	1426
Crofut, John A. (See Wheeler, Dwight and D. C., assignors.)						
Crolius, Edwin R. (See Willets and Crolius.)						
Croly, Edwin H. (See Sharrer, Charles P., assignor.)						
Crommer, Robert, Philadelphia, Pa. Trouser clamp and hanger	352,046	Nov. 2	458	124	37	545

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Crompton, George. (See Wyman, Horace, assignor.)						
Crompton, George, Worcester, Mass. Woven fabric	335,567	Feb. 9	673	177	34	567
Crompton, George, Worcester, Mass. Woven fabric. (Reissue)	10,743	July 6	651	165	36	118
Crompton, George, and H. Wyman, Worcester, Mass. Loom for weaving tufted fabrics	343,013	June 1	324	83	35	1065
Crompton, George, and H. Wyman, Worcester, Mass., assignors to said Crompton. Mechanical movement	336,623	Feb. 23	2201	574, 575	34	850
Crompton, George, and H. Wyman, Worcester, Mass., assignors to said Crompton. Mechanical movement	336,624	Feb. 23	2203	575	34	850
Crompton, George, and H. Wyman, Worcester, Mass., assignors to said Crompton. Mechanical movement	336,625	Feb. 23	2204	575	34	851
Crompton, George, and H. Wyman, Worcester, Mass., assignors to said Crompton. Mechanical movement	339,047	Mar. 30	2982	789	34	1488
Crompton, George, and H. Wyman, Worcester, Mass., assignors to said Crompton. Mechanical movement	339,048	Mar. 30	2983	789	34	1488
Crompton, George, and H. Wyman, Worcester, Mass., assignors to said Crompton. Mechanical movement	339,620	Apr. 13	772	191	35	142
Crompton, George, and H. Wyman, Worcester, Mass., assignors to said Crompton. Loom for weaving tufted fabrics	343,110	June 1	475	121, 122, 123	35	1093
Crompton, George, and H. Wyman, Worcester, Mass.; said Wyman assignor to said Crompton. Mechanical movement	336,626	Feb. 23	2205	576	34	851
Crompton, George, and H. Wyman, Worcester, Mass.; said Wyman assignor to said Crompton. Mechanical movement	336,627	Feb. 23	2206	576	34	851
Crompton, George, and H. Wyman, Worcester, Mass.; said Wyman assignor to said Crompton. Loom for weaving tufted fabrics	343,111	June 1	484	123	35	1094
Crompton, George, and H. Wyman, Worcester, Mass.; said Wyman assignor to said Crompton. Loom for weaving tufted fabrics	343,112	June 1	487	123, 124	35	1094
Crompton, George, and H. Wyman, Worcester, Mass.; said Wyman assignor to said Crompton. Loom for weaving tufted fabrics	343,113	June 1	490	124	35	1095
Crompton, George, and H. Wyman, assignors to G. Crompton, Worcester, Mass. Mechanical movement. (Reissue)	10,735	June 8	1158	292	35	1224
Cron, Lucius C., Piqua, Ohio. Drawer-fitting machine	339,270	Apr. 6	922	56	35	41
Cronk, Charles W., and C. C. Currier, Newark, N. J. Rotary chromatic-printing machine	343,299	June 8	769	192	35	1155
Cronk Hanger Company. (See Sanford, Addison G., assignor.)						
Cronk, William, Havana, N. Y. Pliers	344,769	June 29	2812	728	35	1547
Crook, Joseph E., assignor to Atwood & Colwell, Providence, R. I. Chain	354,046	Dec. 7	573	156	37	1110
Crooke, John J. and R., New York, N. Y. Treating and desilverizing copper matte	354,182	Dec. 14	792	210	37	1158
Crooke, Robert. (See Crooke, John J. and R.)						
Crooker, Heman D. (See Hill and Crooker.)						
Crooker, William W. (See Jones, Crooker, and Artôs.)						
Crooks, Thomas R. (See Welch and Crooks.)						
Crosbie, James H., assignor of two-thirds to M. Speaks and J. S. Mitchell, Hartsell's, Ala. Sash-balance	349,922	Sept. 28	1897	491	36	1425
Crosby, Charles M., Hillsborough, Ohio. Railway-switch	349,250	Sept. 14	980	250	36	1232
Crosby, Charles M., assignor to himself, H. Asher, and C. S. Bell, Hillsborough, Ohio. Railway-switch	353,847	Dec. 7	276	73	37	1057
Crosby, Chauncey H., *et al.* (See Brooks, Edward J., assignor.)						
Crosby, J. Park, New York, N. Y. Paper-file	351,691	Oct. 26	2363	598	37	441
Crosby, Jabez W., Leeds, county of York, England. Brushing mechanism for bolting-reels	352,228	Nov. 9	741	199	37	602
Crosby, James H., Boston, Mass. Valve	344,724	June 29	2750	713	35	1537
Crosby, Stephen M., executor. (See Dennis and Coram, assignors.)						
Croschuire, Charles F. (See Thiéry and Croselmire.)						
Croshaw, Samuel E., Three Oaks, Mich. Automatic grain-measure	355,064	Dec. 28	2048	538	37	1407
Crosley, Albert B. (See Ormerod and Crosley.)						
Crosley, Powel. (See English, Andrew J., assignor.)						
Cross, Adelbert J., Sedgwick, Kans. Watering-trough	353,289	Nov. 30	2182	584	37	899
Cross, Ambrose W. (See Cross, William and A. W.)						
Cross, Anson K., Boston, Mass. Fountain-pen	348,661	Sept. 7	179	48	36	1079
Cross, Arthur E., assignor of one-half to B. F. Rex, St. Louis, Mo. Tool for finishing joints of brick walls	352,082	Nov. 2	509	137	37	555
Cross, Charles G., Longsight, Manchester, England. Implement for brushing and scraping ships' hulls	333,503	Jan. 5	9	4	34	5
Cross, David L., Austin, Tex. Steam-engine	342,335	May 25	1890	500, 501	35	883
Cross, Frank, Washington, Ind., assignor to National Manufacturing Company, Louisville, Ky. Burglar-alarm	341,460	May 11	688	185	35	640
Cross, Frank W., Washington, D. C. Ship's water-closet	354,503	Dec. 14	1238	331, 332	37	1239
Cross, Samuel B., Wellington, Kans. Field-fence-making machine	334,514	Jan. 19	1452	390	34	282
Cross, Thomas J., and J. Stout, Belmore, Ohio. Ironing-board	341,797	May 11	1135	300	35	727
Cross, William and A. W., Loughborough, county of Leicester, England. Micrometer-gage	342,245	May 18	1737	461	35	847
Cross, William C., Boston, Mass. Lasting-tool	333,605	Jan. 5	143	39	34	29
Cross, William C., Boston, Mass. Lasting boots and shoes	333,606	Jan. 5	144	39	34	29
Cross, William C., Boston, Mass. Machinery for the manufacture of satchel-bottom paper bags	336,474	Feb. 16	1991	521, 522	34	808
Cross, William C., Boston, Mass. Lasting boots and shoes	337,483	Mar. 9	838	212	34	1083
Cross, William C., Boston, Mass. Machine for lasting boots or shoes	343,440	June 8	990	246, 247	35	1193
Cross, William C., Boston, Mass. Lasting-machine	344,725	June 29	2751	713	35	1537
Crossley, Arthur, Cleckheaton, county of York, England. Machine for riveting and dressing wheels	346,987	Aug. 10	690	183	36	600
Crossley, Cecelia S. (See Crossley, Harry A., assignor.)						
Crossley, Clarence W., London, county of Middlesex, England. Apparatus for the propulsion movement and suction of air, fluids, and gases	336,215	Feb. 16	1629	425	34	743
Crossley, Harry A., assignor to C. S. Crossley, Rockport, Ohio. Combined gage-wheel and colter	336,475	Feb. 16	1993	522	34	808
Crossley, Louis J., Halifax, county of York, and J. J. Hicks, 8 Hatton Garden, county of Middlesex, England. Incandescent electric lamp	341,997	May 18	1402	374	35	784
Crossley, Louis J., R. Hanson, Halifax, county of York, and J. J. Hicks, Hatton Garden, county of Middlesex, England. Glass tube for water-gages	349,271	Sept. 14	1003	256	36	1237
Crossman, John A., and N. C. Buch, assignors to E. C. Atkins & Company, Indianapolis, Ind. Device for swaging saw-teeth	343,658	June 15	1292	325	35	1255
Croswell, Lewis P., and C. A. Funk, McLean, Ill. Wrench	340,488	Apr. 20	1989	510	35	310
Croswell, William, Boston, Mass. Mechanical toy	346,092	July 27	1840	475	36	353

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Crouan, Henry M. L., Paris, France. Hydraulic lift or hoist	344,307	June 22	2191	562, 563	35	1426
Crouch, Enoch W., Hopkinton, R. I. Butter-worker	354,504	Dec. 14	1239	332	37	1239
Crouch, George, New York, N. Y. Trunk	339,621	Apr. 13	773	191	35	142
Crouch, George, New York, N. Y. Spring-bolt	348,662	Sept. 7	180	48	36	1079
Crouch, George, New York, N. Y. Trunk-lid stay	354,596	Dec. 21	1386	367	37	1272
Crouch, George, New York, N. Y. Spring-catch for trunks, &c	354,597	Dec. 21	1387	367	37	1272
Crouch, George, New York, N. Y. Bag-catch	354,598	Dec. 21	1388	367	37	1273
Crouch, John D., New York, N. Y. Trunk	339,622	Apr. 13	774	191	35	143
Crouch, Moses L. (See Crouch, Rufus T. and M. L.)						
Crouch, Rufus T. and M. L., Plymouth, Ill. Ball-target	339,150	Apr. 6	48	15	35	12
Croup, Henry C., Butler, Pa. Cuff button and holder	345,216	July 6	572	146	36	104
Crouse, Henry M., Syracuse, N. Y. Combined tag and envelope	336,841	Feb. 23	2495	657	34	906
Crow, Abijah T., Clarinda, Iowa. Anchor for check-rowers	348,152	Aug. 24	2380	638	36	929
Crow, Austin M. (See Crow, Jacob W., assignor.)						
Crow, Jacob W., assignor of one-half to A. M. Crow, Arkadelphia, Ark. Fruit-tree and plant cover	343,533	June 8	1112	280	35	1216
Crow, Jacob W., assignor of one-half to A. M. Crow, Arkadelphia, Ark. Stringer and tie fastener	353,624	Nov. 30	2677	617	37	991
Crowe, Charles P., assignor of one-half to H. M. Smith, Mount Gilead, Ohio. Side-bar spring	338,585	Mar. 23	2302	603	34	1362
Crowell, Abner B., Richmond, Va. Hydraulic motor	352,229	Nov. 9	742	199	37	602
Crowell, Gilmer, and F. W. Gesswein, Brooklyn, N. Y. Machine for boring brushes	342,285	May 18	1803	478	35	859
Crowell, Luther C., Brooklyn, N. Y. Stereotype-plate holder	350,916	Oct. 19	1154	307	37	224
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Delivery apparatus for printing-machines	339,530	Apr. 6	598	145, 146	35	110
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Sheet-delivery mechanism	339,531	Apr. 6	603	146, 147, 148, 149	35	111
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Sheet-delivery apparatus	339,532	Apr. 6	610	149, 150	35	111
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Sheet-reversing apparatus	344,352	June 29	2259	579, 580	35	1445
Crowell Manufacturing Company. (See Kurtz, William B., assignor.)						
Crowell, Sommers, Philadelphia, Pa. Iron fence	342,429	May 25	2039	538	35	908
Crowley, Daniel, Boston, Mass. Convertible table, lounge, and desk	350,414	Oct. 5	413	118, 119	37	82
Crowley, George G., assignor to Warrior Mower Company, Little Falls, N. Y. Harrow	333,926	Jan. 5	590	161, 162	34	111
Crowley, J. W. (See Reaves, William B., assignor.)						
Crowley, John H., Philadelphia, Pa. Picker-check for looms	346,400	July 27	2276	583, 584	36	435
Crowley, John J. (See Lorden, Dennis J., assignor.)						
Crowley, Timothy. (See Klinkner, John H., assignor.)						
Crown Manufacturing Company. (See Sheldon and Peacock, assignors.)						
Crowninshield, Mary B., Washington, D. C. Darning-last	347,757	Aug. 17	1809	482	36	815
Crozier, George W., Muncie, Ind. Folding section for buggy-tops	350,530	Oct. 12	601	166	37	116
Cruice, Daniel, assignor to J. J. Slevin, New York, N. Y. Horseshoe	340,982	May 4	16	5	35	508
Cruickshank, George M., assignor to W. W. Douglas, trustee, Providence, R. I. Machine for making and trimming compound wire cables	346,645	Aug. 3	250	68	36	509
Crumbie, Alexander, Brooklyn, assignor to H. McCollum, New York, N. Y. Baker's oven	340,983	May 4	17	5	35	508
Crumbie, Thomas J. (See Nulty, James T., assignor.)						
Crump, Samuel. (See Betts, Robert W., assignor.)						
Crump, Samuel. (See Riker, Daniel J., assignor.)						
Crump, Samuel, Montclair, N. J. Paper box	348,547	Sept. 7	9	3	36	1050
Crump, Samuel, Montclair, N. J. Die for cutting paper, &c	348,548	Sept. 7	10	3	36	1050
Crump, Samuel, Montclair, N. J. Forming dies	348,549	Sept. 7	11	3	36	1050
Crump, William E., Jr., Sealy, Tex. Cork-extractor	350,350	Oct. 5	332	95	37	67
Cruttenden, Will. H. (See Card and Cruttenden.)						
Cryderman, Jacob. (See Holbrook, Byron, assignor.)						
Cryderman, Jacob, Milwaukee, Wis. Reversing-gearing for machinery	339,085	Mar. 30	3035	801, 802	34	1496
Csete, Julius, Aston, near Birmingham, county of Warwick, England. Freezing or refrigerating machine	340,031	Apr. 13	1336	334, 335	35	244
Cubley, Edwin J., Ravenswood, Ill. Drum-head strainer	350,870	Oct. 12	1091	291	37	206
Cudahy, Michael, Chicago, Ill. Refrigerator-car	342,071	May 18	1519	405	35	806
Cudell, Frank E., Cleveland, Ohio. Sewer-gas trap	348,829	Sept. 7	387	105	36	1119
Cudell, Frank E., Cleveland, Ohio. Sewer-gas trap	348,830	Sept. 7	387	105	36	1119
Cuff, Arthur S., London, England. Balcony	343,226	June 8	655	163	35	1134
Culbertson, Charles M., Sr., Chicago, Ill. Snow-plow and scraper	337,561	Mar. 9	936	240	34	1101
Culbertson, Howard, Zanesville, Ohio, assignor to Geneva Optical Company, Geneva, N. Y. Optometer	349,385	Sept. 21	1167	302	36	1277
Cull, William J., and C. F. Scattergood, Albany, N. Y.; said Scattergood assignor to said Cull. Electrical number-indicator	354,505	Dec. 14	1240	332, 333	37	1239
Cullen, James K., assignor to Niles Tool Works, Hamilton, Ohio. Metal-planing machine	344,082	June 22	1882	4 3	35	1371
Cullen, James K., and J. W. See, assignors to Niles Tool Works, Hamilton, Ohio. Gaging device for car-wheel lathes	344,083	June 22	1884	483	35	1371
Cullen, Thomas, *et al.* (See Dewey and Short, assignors.)						
Cullingworth, George R., New York, N. Y. Cross-head	343,300	June 8	770	193	35	1155
Cullingworth, George R., New York, N. Y. Rock-drill	344,477	June 29	2423	624	35	1455
Cullingworth, George R., New York, N. Y. Chuck for rock-drills	345,831	July 20	1489	386	36	279
Cullingworth, George R., New York, N. Y. Drying compressed air	355,002	Dec. 28	1958	516	37	1392
Cullingworth, George R., New York, N. Y. Engine cross-head	355,003	Dec. 28	1959	516	37	1392
Cullon, Alexander, Lindsay, Ontario, Canada. Parturition-shears	335,796	Feb. 9	1006	266	34	628
Cullum, Charles F., London, England. Combined organ and piano	346,842	Aug. 3	483	133, 134	36	555
Culmer, Jethro C., Spencer, Ind. Combination-lock	338,586	Mar. 23	2303	603	34	1362
Culp, Abraham, Mount Carmel, Pa. Frogless switch	350,662	Oct. 12	800	217	37	153
Culp, Andrew J., and A. W. Allen, Philadelphia, Pa. Winding-machine	334,569	Jan. 19	1525	408	34	295
Culp, James D., San Felipe, Cal. Electrical brush	336,897	Mar. 2	21	6	34	930
Culp, James D., San Felipe, Cal. Electrical torch for lighting gas	336,898	Mar. 2	23	7	34	931
Culver, Addison W. (See Combs, Nelson D., assignor.)						
Culver, Lucius L., St. Louis, Mo. Drop-door for ovens	344,521	June 29	2496	643	35	1488

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dig.	Official Gazette. Vol.	Official Gazette. Page.
Cumming, Findlay. (See McLean and Cumming.)						
Cumming, William B. (See McColl and Cumming.)						
Cummings, Albert G., Harrisburg, Pa. Semaphore-signal	340,489	Apr. 20	1990	510	35	370
Cummings, Albert G., Harrisburg, Pa. Semaphore-signal	340,490	Apr. 20	1991	511	35	370
Cummings, Edwin H., assignor to Lowell Machine Shop, Lowell, Mass. Yarn-separating device for spinning-machines	345,888	July 20	1566	403	36	293
Cummings, George W. (See Cummings, John R. and G. W.)						
Cummings, Henry H., Malden, Mass. Button holding and feeding attachment for sewing-machines	334,752	Jan. 26	1780	473	34	351
Cummings, Henry H., Malden, Mass. Cutting-machine	346,093	July 27	1842	475, 476	36	353
Cummings, Henry H., Malden, Mass. Sole-channeling machine	354,012	Dec. 7	526	143, 144	37	1102
Cummings, Henry H., Malden, Mass. Stopping mechanism for button-hole-stitching machines	354,103	Dec. 14	661	178	37	1135
Cummings, Henry H., Malden, W. E. Bennett and R. Thompson, assignors to Morley Sewing Machine Company, Boston, Mass. Machine for stitching buttons to fabric or other material	343,948	June 15	1676	430	35	1327
Cummings, Henry H., Malden, W. E. Bennett and R. Thompson, assignors to Morley Sewing Machine Company, Boston, Mass. Sewing-machine	343,949	June 15	1679	430, 431, 432	35	1328
Cummings, James, *et al.* (See O'Riordan, James, assignor.)						
Cummings, James W., Springfield, Ohio. Pad-hook	342,286	May 18	1807	478	35	859
Cummings, John R., assignor to American Press Association, Chicago, Ill. Clamping-tool	337,743	Mar. 9	1153	299, 300	34	1139
Cummings, John R., assignor to American Press Association, Chicago, Ill. Type	337,744	Mar. 9	1154	300	34	1140
Cummings, John R. and G. W., Chicago, Ill. Printing-block	351,313	Oct. 19	1750	452	37	327
Cummings, Josiah. (See Straw, Love, assignor.)						
Cummings, Merrick. (See Cook, George W., assignor.)						
Cummings, Montrovill D., Hope, Ohio. Iron fence-post	348,383	Aug. 31	2712	723	36	999
Cummings, Patrick, assignor to P. J. Cummings, Newton, Mass. Paddle-wheel	333,607	Jan. 5	145	40	34	29
Cummings, Patrick J. (See Cummings, Patrick, assignor.)						
Cummings, Perley D., assignor to Maine Corn Husking Machine Company, Portland, Me. Corn-husking machine	350,620	Oct. 12	738	200, 201, 202	37	142
Cummings, Uriah, Buffalo, N. Y. Manufacture of cement	342,784	June 1	15	.....	35	1009
Cummings, Uriah, Buffalo, N. Y. Manufacture of sulphuric acid	342,785	June 1	16	.....	35	1009
Cummings, Uriah, Buffalo, N. Y. Hydraulic cement	350,415	Oct 5	414	119	37	82
Cummings, William D., Pittsburg, Pa. Water-filter	350,917	Oct. 19	1156	307	37	224
Cummings, William H., Spencer, Mass. Water-filter	353,207	Nov. 23	2071	553	37	872
Cummins, John R., *et al.* (See Faires, Joseph J., assignor.)						
Cummiskey, John, *et al.* (See Adams, William D., assignor.)						
Cundell, Edward D. (See Kuyl and Cundell.)						
Cunning, James, Indianapolis, Ind. Machine for cleaning intestines	337,928	Mar. 16	1407	365	34	1192
Cunning, James, Indianapolis, Ind. Machine for cleaning intestines	354,047	Dec. 7	575	156	37	1110
Cunningham, Arthur, Louisville, Ky. Mold for casting solder-joints	337,562	Mar. 9	937	240	34	1101
Cunningham, George A. (See Cunningham, J. Calder and G. A.)						
Cunningham, J. Calder and G. A., Washington, Kans. Low-binding grain-harvester	338,219	Mar. 16	1807	471, 472	34	1267
Cunningham, Peter B. (See Barnes and Cunningham.)						
Cunningham Son & Company, James. (See Clements, John, assignor.)						
Cunningham, Thomas, Chelsea, Mass. Bracket for steam-boilers	350,416	Oct. 5	415	119	37	82
Cunningham, William, Watsontown, Pa. Boiler-feeder	346,269	July 27	2094	539	36	401
Cunningham, William R., assignor of one-half to J. Temple, Lafayette, Ind. Governor	340,032	Apr. 13	1339	335	35	244
Cunningham, William S., *et al.* (See Helms, William M., assignor.)						
Cuntz, Friedrich, Carlsbad, Bohemia, Austria-Hungary. Apparatus for rinsing or washing bottles, &c.	338,587	Mar. 23	2304	603	34	1362
Curd, William H., Lick Run, Va. Wheel	346,401	July 27	2277	584	36	436
Curley, Terence F., Brooklyn, N. Y. Safety-guard razor	349,386	Sept. 21	1168	302	36	1277
Curley, Thomas, Troy, N. Y. Lemon-squeezer	336,298	Feb. 16	1759	460	34	764
Curlin, Seth, Louisville, Ky., assignor to Curlin Switch and Crossing Company. Switch	337,745	Mar. 9	1155	300, 301	34	1140
Curlin Switch and Crossing Company. (See Curlin, Seth, assignor.)						
Curran, Franklin J., Stanford, Ky. Flying target	338,633	Mar. 23	2371	624	34	1374
Curran, Franklin J., Stanford, Ky. Target-trap	346,988	Aug. 10	691	184	36	601
Curran, John, Philadelphia, Pa. Device for passing the dead-centers of a crank-motion	350,417	Oct. 5	416	119	37	82
Curran, John J., Chicago, Ill. Lumber-drier	336,511	Feb. 16	2035	534	34	816
Currey, Thomas, *et al.* (See Megathey, William, assignor.)						
Currie, John W., Solomon City, Kans. Windmill	342,736	May 25	2481	659	35	989
Currie, William W., Smith's Falls, Ontario, Canada. Station-indicator for cars	343,760	June 15	1449	362	35	1283
Currier, Charles M., Peninsula, assignor of two-thirds to G. T. Ford, Akron, and W. H. Pixley, Peninsula, Ohio. Bobbin	344,770	June 29	2813	728	35	1548
Currier, Cyrus C. (See Cronk and Currier.)						
Currier, John O., assignor to L. E. Currier, Sangerville, Me. Disk-cultivator	333,927	Jan. 5	592	162	34	111
Currier, Lewis E. (See Currier, John O., assignor.)						
Currier, Samuel A., Concord, N. H. Butter-carrier	343,301	June 8	772	193	35	1155
Curtin, John, assignor of one-half to N. Baker, Southbridge, Mass. Eyeglasses	333,928	Jan. 5	592	162	34	111
Curry, Burwell J., Huntsville, Ala. Hay-press	350,663	Oct. 12	801	218	37	153
Curry, James H., *et al.* (See Woodward, William M., assignor.)						
Curry, James H., Wilkinsburg, Pa., assignor of two-thirds to E. J. Baker, Cleveland, and P. G. March, Cincinnati, Ohio. Lathe-chuck	353,736	Dec. 7	119	33	37	1028
Curry, John M., Framingham, Mass. Looper for sewing-machines	339,743	Apr. 13	952	234	35	173
Curry, Owen T. (See Glass, Jacob, assignor.)						
Curtice, Alexander, Evergreen, Iowa. Draft-equalizer	350,580	Oct. 12	675	184	37	129
Curtin, Austin, *et al.* (See Radzinsky, Louis D., assignor.)						
Curtin, Frank. (See Wilkinson and Curtin.)						
Curtin, Richard J., assignor of one-half to W. J. Coughlin, Lowell, Mass. Rotary brush	336,842	Feb. 23	2496	658	34	906
Curtis, Charles G. (See Wheeler and Curtis.)						
Curtis, Charles G., and F. B. Crocker, New York, N. Y., assignors to C. & C. Electric Motor Company. Dynamo-electric machine or motor	354,538	Dec. 21	1294	344, 345	37	1256
Curtis, Charles G., and S. S. Wheeler, New York, N. Y., assignors to C. & C. Electric Motor Company. Dynamo-electric machine and electric motor	354,539	Dec. 21	1297	345	37	1257
Curtis & Co. Manufacturing Company. (See Vail, Samuel S., assignor.)						
Curtis, David W., assignor of two-thirds to O. S. Cornish and W. S. Greene, Fort Atkinson, Wis. Cream-testing churn	342,336	May 25	1893	501	35	883

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Curtis, Dexter, Madison, Wis. Ankle-boot for horses	342,430	May 25	2040	538	35	908
Curtis, Francis B., East Orange, N. J. Elastic suspender-button for pants	334,497	Oct. 26	2923	525	37	367
Curtis, Henry, Chicago, Ill. Grain-adjusting device	336,553	Feb. 23	2098	552	34	833
Curtis, Henry C., Troy, N. Y. Sewing-machine gage	334,218	Jan. 12	1029	274	34	199
Curtis, Henry H., North Attleborough, Mass. Button or stud	339,151	Apr. 6	48	15	35	12
Curtis, Henry J., Hartford, Conn. Brake for tricycles	348,891	Sept. 7	479	127	36	1135
Curtis, Henry P., Boston, Mass. Tripod	340,195	Apr. 20	1575	398	35	293
Curtis, John D., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Barb-fence machine	339,086	Mar. 30	3036	802	34	1496
Curtis, John D., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Machine for manufacturing barbed fencing	340,196	Apr. 20	1576	399	35	294
Curtis, John D., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Machine for twisting and spooling wire strands	340,197	Apr. 20	1579	399, 400	35	294
Curtis, John D., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Apparatus for automatically stopping machines for making wire fencing	340,198	Apr. 20	1581	400	35	295
Curtis, John D., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Machine for making barbed fencing	340,939	Apr. 27	2610	688	35	486
Curtis, John F. (See Ashe, Robert, assignor.)						
Curtis, John H. (See Curtis, William E. and J. H.)						
Curtis, Lewis E., assignor to E. B. and G. E. Preston, Chicago, Ill. Turn-table extension-ladder	336,512	Feb. 16	2038	535	34	816
Curtis, Nelson, Boston, Mass. Steam-trap	336,628	Feb. 23	2207	576	34	851
Curtis, Nelson, Boston, Mass. Damper-regulator	346,898	Aug. 10	575	154	36	580
Curtis, Nelson, Boston, Mass. Boiler-feeder	348,892	Sept. 7	480	127, 128	36	1136
Curtis, Nelson, Boston, Mass. Boiler-feeder	348,893	Sept. 7	481	128	36	1136
Curtis, Robert W., *et al.* (See Matteson, Eugene L., assignor.)						
Curtis, Theodore A., Formosa, Fla. Leaf-holding attachment for type-writing machines	353,625	Nov. 30	2678	718	37	991
Curtis, Theodore C., Carroll, Ind. Sliding and swinging gate	349,925	Sept. 28	1899	492	36	1426
Curtis, Walter S., West Randolph, Vt. Artificial tooth	350,871	Oct. 12	1092	291	37	206
Curtis, Warren, Corinth, N. Y. Block-presser for paper-pulp mills	342,072	May 18	1520	406	35	806
Curtis, Warren, Corinth, N. Y. Block-presser for paper-pulp mills	342,073	May 18	1521	406	35	807
Curtis, Warren, Corinth, N. Y. Wood-pulp machinery	342,074	May 18	1523	406	35	807
Curtis, Warren, Corinth, N. Y. Wood-pulp machine	342,075	May 18	1524	407	35	807
Curtis, William E. and J. H., Taunton, Mass. Tap and faucet connection for beer and other barrels	335,743	Feb. 9	927	244	34	614
Curtz, Frederick F. (See Hall, Edward P., assignor.)						
Cusack, William H., assignor of one-half to J. Walter, New York, N. Y. Metallic roofing, siding, and ceiling	339,744	Apr. 13	952	234	35	173
Cushing, Alston, *et al.* (See Killam, Robert C., assignor.)						
Cushing, Augustus T., Weymouth, Mass Shoe	354,968	Dec. 28	1913	505	37	1384
Cushing, Charles A., San Francisco, Cal. Gas-stove	355,143	Dec. 28	2164	570, 571	37	1430
Cushing, George S., *et al.* (See Freese, Francis J., assignor.)						
Cushing, George W., St. Paul, Minn. Car-door fastener	337,929	Mar. 16	1408	365	34	1192
Cushing, George W., St. Paul, Minn. Air-feeder for fire-boxes	348,894	Sept. 7	485	128, 129	36	1136
Cushing, John, Houston, Tex. Combined bag and twine holder	344,771	June 29	2813	728, 729	35	1548
Cushman, Abe L., assignor to J. A. White, Concord, N. H. Tenoning-machine	350,872	Oct. 12	1093	291	37	206
Cushman, Henry D., Three Rivers, Mich. Inhaler	333,608	Jan. 5	146	40	34	30
Cushman, Henry D., Three Rivers, Mich. Inhaler	333,609	Jan. 5	147	40	34	30
Cushman, Henry D., Three Rivers, Mich. Inhaler	351,744	Nov. 2	19	5	37	462
Cushman, Henry S., Milford, Mass. Manufacture of boot or shoe uppers	341,835	May 11	1189	318	35	738
Cushman, Nathaniel J., North Paris, Me. Saw-mill dog	340,491	Apr. 20	1994	512	35	371
Cussins, Lucian A. (See Overpeck, Shank, and Cussins.)						
Cussins, Lucian A., New Paris, Ohio. Fence	353,626	Nov. 30	2680	718	37	992
Cussins, Lucian A., and J. M. Overpeck, New Paris, Ohio. Wrench for twisting wire	338,659	Mar. 23	2405	633	34	1380
Custard, Joseph F., assignor of one-half to W. A. Fulzenger, Slatington, Pa. Grinding-mill	348,153	Aug. 24	2381	638, 639	36	929
Custard, Joseph F., assignor of one-half to J. F. Hunsicker, Slatington, Pa. Device for sharpening reaper-knives	351,426	Oct. 26	1913	498	37	366
Custer, George, Whitney, Tex. File	352,083	Nov. 2	510	137	37	555
Cutler, Charles W., Guy's Mills, Pa. Swinging support	350,581	Oct. 12	676	184	37	129
Cutler, Henry, assignor to H. W. Cutler, North Wilbraham, Mass. Grinding-mill	348,384	Aug. 31	2714	729	36	999
Cutler, Henry W. (See Cutler, Henry, assignor.)						
Cutler, James G., Rochester, N. Y. Letter-box connection	336,038	Feb. 9	1335	354	34	686
Cutler, Joseph H., West Medway, Mass. Polishing-machine	335,568	Feb. 9	674	177	34	568
Cutten, Elisha B., assignor to Electrical and Mechanical Developing Company, Pittsburg, Pa. Electro-magnet	343,227	June 8	656	163	35	1134
Cutten, Elisha B., assignor to Electrical and Mechanical Developing Company, Pittsburg, Pa. Electric-arc lamp	346,430	July 27	2320	597, 598	36	443
Cutten, Elisha B., assignor to Electrical and Mechanical Developing Company, Pittsburg, Pa. Arc lamp	350,975	Oct. 19	1239	329, 330	37	240
Cutter, Frederic R., Somerville, Mass. Watch	341,095	May 4	163	48	35	535
Cutter, Martin A., Galveston, Tex. Sash-holder	334,692	Jan. 19	1695	453	34	327
Cutter, Martin A., Galveston, Tex. Shutter-fastener	337,746	Mar. 9	1158	301	34	1140
Cutter, Martin A., Galveston, Tex. Car-window lock	350,418	Oct. 5	417	120	37	82
Cutting, Lewis H., Stockton, Cal. Heat-regulator for incubators	345,280	July 13	670	169	36	127
Cutting, Robert S. (See Lewis, Russell H., assignor.)						
Cutting, Robert S., Providence, R. I. Lever-button	337,747	Mar. 9	1159	301	34	1140
Cuttriss, Charles, New York, N. Y. Siphon-recorder	344,772	June 29	2814	729	35	1548
Cutts, William, Toronto, Ontario, Canada. Fastener for frame-joints	349,631	Sept. 21	1491	386	36	1341
Cypert, Jesse B., Waynesborough, Tenn. Tire-tightener	341,408	May 4	613	168	35	616
Cypert, Joseph A., assignor of one-half to J. Kelley, Willow Springs, Mo. Track-clearer for locomotives	335,509	Feb. 2	582	152	34	544
Cyphers, Jared P., Holton, Mich. Drag-saw	349,876	Sept. 28	1845	477	36	1415
Daboll, William V. (See Hope, John, Jr., assignor.)						
Daelen, Lambert A., Cologne, Prussia, Germany, assignor, by mesne assignments, to J. Merrill, G. Patten, and J. A. Woodbury, Boston, Mass. Caloric engine	336,093	Feb. 16	1433	378	34	710
Daft, Leo, Greenville, N. J. Electric motor	336,629	Feb. 23	2209	576	34	851
Dages, Wendell. (See Swank and Dages.)						
Daggett, Albert, Strong, Me. Alarm attachment for measuring-vessels	341,641	May 11	933	247	35	687

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Daggett, John C. (See Dixon, Walter L., assignor.)						
Daggett, Robert P. assignor of one-half to J. B. Lizius, Indianapolis, Ind. Stove-pipe flange and retainer	346,431	July 27	2336	599	36	444
Dahl, Carl A., Cambridgeport, assignor of one-half to O. Klindt, Worcester, Mass. Automatic mechanical railway stop and signal	346,843	Aug. 3	485	134	36	555
Dahlstrom, Karl P., Taunton, Mass. Calipers	351,363	Oct. 26	1793	472	37	346
Dahlström, Robert, Hamburg, Germany. Machine for cutting nails	347,923	Aug. 24	2055	546	36	869
Dahmann, William H., St. Louis, Mo. Portable oven for gas and oil stoves	343,231	June 8	664	165	35	1136
Dailey, Abram H., Brooklyn, N. Y. Fishing rod and reel	335,797	Feb. 9	1007	267	34	628
Dailey, Abram H., Brooklyn, N. Y. Fish-line reel	335,798	Feb. 9	1010	267	34	628
Dailey, Asa G., Detroit, Mich. Cut-out switch	347,576	Aug. 17	1542	410	36	736
Dailey, John, Van Wert, Ohio. Flood-gate	340,293	Apr. 20	1723	439	35	656
Daimler, Gottlieb, Cannstadt, Würtemberg, Germany. Motor-engine worked by combustible gases or petroleum	334,109	Jan. 12	855	235	34	106
Daimler, Gottlieb, Cannstadt, Würtemberg, Germany. Power-driven vehicle	347,160	Aug. 10	948	253	36	648
Daimler, Gottlieb, Cannstadt, Würtemberg, Germany. Gas-engine. (Reissue)	10,759	Aug. 24	2429	650	36	938
Daimler, Gottlieb, Cannstadt, Würtemberg, Germany. Motor-engine	349,983	Sept. 28	1987	513	36	1142
Dainz, Charles A., *et al.* (See Lister, John T., assignor.)						
Dakin, John H., Schenectady, N. Y. Chuck for broom-barrels	351,540	Dec. 21	1299	346	37	1257
Dale, Henry, New York, N. Y. Fire-proof shutter for stairways	350,664	Oct. 12	862	218	37	153
Dales, Joseph R., and E. L. Adams, Philadelphia, Pa. Electric-arc lamp	334,353	Jan. 12	1229	330	34	235
Dales, Joseph R., Philadelphia, and W. H. Markland, Altoona, assignors to M. K. Reeves, Philadelphia, Pa. Electric lamp	344,252	June 22	2113	540	35	1412
Dalese, John, *et al.* (See Richardson, George W., assignor.)						
Daley, Dennis J., Pittsburg, Pa. Folding fire-fender	352,302	Nov. 9	837	225	37	620
Dallas, John B. (See Young, James P., assignor.)						
Dalliba, James H., and F. Billings, Cleveland, Ohio. Casting metal ingots	333,929	Jan. 5	594	162	34	111
Dalpé, Frederick A., Philadelphia, Pa. Adhesive re-enforce washer	335,569	Feb. 9	675	177	34	568
Dalton, Clarence L., assignee to C. H. Albrecht, Cincinnati, Ohio. Whip-holder	349,341	Sept. 21	1080	277	36	1361
Dalton, Dan F., Waterbury, Conn. Shoe-clasp	345,622	July 13	1167	300	35	217
Dalton, Daniel F. (See Chapman and Dalton.)						
Dalton, Joseph, New York, N. Y. Thread-guide for looms, &c	347,028	Aug. 10	754	201	36	612
Daly, John H. (See Porter and Daly.)						
Dalzell, Allan C., Newport, Ky. Manufacture of watch-crowns	348,620	Sept. 7	122	35	36	1070
Dalzell, Allan C., Newport, Ky. Device for capping watch-crown cores	355,144	Dec. 28	2165	571	37	1431
Dalzell, Charles N., Waddington, N. Y. Office-desk	335,432	Feb. 2	482	125	34	523
Dalzell, John H., and T. J. McTighe, Pittsburg, Pa. Conveying gas in an inexplosive condition	337,667	Mar. 9	1061	.....	34	1124
Dalzell, John H., and T. J. McTighe, Pittsburg, Pa. Distributing gas	337,668	Mar. 9	1062	274	34	1124
Dalzell, William C., South Egremont, Mass. Machine for working axle-boxes	351,692	Oct. 26	2304	598	37	441
Daman, Oscar, Minneapolis, Minn. Stove-back	338,252	Mar. 23	1853	487	34	1284
Damerel, William, Brooklyn, N. Y. Candle-lamp	335,020	Jan. 26	2120	565	34	413
Damitz, William F., J. D. Murphy, and H. Paxton, Wheatland, Mo. Seeding-machine	344,167	June 22	1999	{512 / 513}	35	1391
Damm, Fredrick C., Peoria, Ill. Flying target	334,848	Jan. 27	1894	505	34	373
Damm, Fredrick C., Peoria, Ill. Arm for flying-target traps	334,849	Jan. 26	1895	505	34	373
Damm, Fredrick C., Decatur, Ill. Target-trap	344,353	June 29	2260	581	35	1445
Dammeyer, Henry, Chicago, Ill. Bridge-gate	344,817	July 6	18	5	35	5
Damon, George, Cranford, N. J., and E. S. Peets, New York, N. Y. Stereotype-block	340,104	Apr. 20	1436	363	35	268
Damon, Lewis P., Wyoming, Ill. End-gate and shoveling-board for wagons	346,534	Aug. 3	108	29	36	481
Damren, Samuel G., Auburn, Me. Extension-valise	351,745	Nov. 2	20	6	37	462
Dana, Charles H., West Lebanon, N. H. Road scraper and grader	337,930	Mar. 16	1409	365	34	1192
Dana, Charles H., West Lebanon, N. H. Nose-ringing tool	339,152	Apr. 6	49	16	35	12
Dana, Charles S., and D. Furnall, Belpre, Ohio. Self-heating sad-iron	345,123	July 6	449	116	36	82
Dana, Edward A., Fairhaven, Mass. Windmill	346,468	Aug. 3	26	7	36	466
Danelius, Solomon, Philadelphia, Pa. Spool-holder	351,427	Oct. 26	1914	498	37	367
Danford, Ebenezer, Geneva, Ill. Felly for vehicle-wheels	333,732	Jan. 5	326	90	34	61
Daniel, Thomas I., Jackson, Mich. Word-counter for type-writing machines	342,337	May 25	1894	{501 / 502}	35	884
Daniel, William H., Chicago, Ill. Roller-skate	352,739	Nov. 16	1404	380	37	737
Daniell, Warren F., *et al.* (See Riley, Edwin, assignor.)						
Daniels, Fred H., Worcester, Mass. Making wire rods	351,364	Oct. 26	1794	472	37	346
Daniels, Fred H., Worcester, Mass. Making wire rods	351,365	Oct. 26	1795	472	37	347
Daniels, Fred H., Worcester, Mass. Rolling-mill	352,521	Nov. 16	1108	301	37	681
Daniels, George B., *et al.* (See Stiles, Sidney L., assignor.)						
Daniels, George D., *et al.* (See Ramsey, Charles B., assignor.)						
Daniels, Granville W., *et al.*, trustees. (See Fiske, Henry P., assignor.)						
Daniels, Henry A., Yonkers, N. Y. Artificial stone	346,729	Aug. 3	354	.....	36	530
Daniels, Henry A., Yonkers, N. Y. Artificial stone	346,730	Aug. 3	355	.....	36	530
Daniels, Henry A., Yonkers, N. Y. Artificial stone	346,731	Aug. 3	355	.....	36	530
Daniels, Henry A., Yonkers, N. Y. Artificial stone	346,732	Aug. 3	356	.....	36	530
Daniels, Henry A., Yonkers, N. Y. Artificial stone	346,733	Aug. 3	356	.....	36	530
Daniels, Henry A., Yonkers, N. Y. Building-block	346,734	Aug. 3	357	96	36	530
Daniels, Henry A., Yonkers, N. Y. Manufacture of artificial stone	346,736	Aug. 3	359	96	36	531
Daniels, Henry A., Yonkers, N. Y. Tile	353,780	Dec. 7	174	48	37	1039
Daniels, Henry A., Yonkers, and A. G. Dickinson, New York, N. Y. Pavement	346,735	Aug. 3	358	96	36	530
Daniels, Henry C., Rochester, N. Y. Land-mark for indicating boundaries or divisions	343,365	June 8	885	223	35	1175
Daniels, Henry C., Somerville, assignor to Carter, Rice & Co., Boston, Mass. Merchandise-tag	335,274	Feb. 2	265	70	34	488
Daniels, Samuel, assignor of one-half to M. E. Dayton, Chicago, Ill. Vapor-stove	347,161	Aug. 10	948	{253 / 254}	36	648
Daniels, Thomas R., *et al.* (See Largent, James J., assignor.)						
Daniels, William H., Southsea, England. Tube-motor for propelling vessels	338,040	Mar. 16	1568	407	34	1220
Daniels, William H., Southsea, England. Construction of ships, &c	352,807	Nov. 16	1496	404	37	753
Danielson, Samuel, Pittsville, Mo. Washing-machine	333,610	Jan. 5	148	40	34	30
Danker, Charles. (See Robertson and Danker.)						
Dann, Adoniram, Marine City, Mich. Carpet-stretcher	343,892	June 15	1610	410	35	1314
Dann, John E., and J. Lapp, Honeoye Falls, N. Y. Telephone-receiver	338,491	Mar. 23	2185	571	34	1343
Dann, John E., and J. Lapp, Honeoye Falls, N. Y. Telephone-transmitter	338,492	Mar. 23	2186	572	34	1343
Dann, John E., and J. Lapp, Honeoye Falls, N. Y. Telephone-transmitter	338,660	Mar. 23	2406	633	34	1380
Dann, John E., and J. Lapp, Honeoye Falls, N. Y. Preventing disturbances on telephone-lines	343,014	June 1	325	83	35	1066
Dann, John E., and J. Lapp, Honeoye Falls, N. Y. Telephone-transmitter	347,924	Aug. 24	2060	547	36	869

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Danner, Christenia C., Ionia, Mich. Steam cooking-vessel	352,230	Nov. 9	743	199, 200	37	602
Danner, Frederick. (See Bugbee and Danner.)						
Danner, Fredrick, Home City, and T. P. Egan, assignors to Egan Company, Cincinnati, Ohio. Grinding-machine	350,351	Oct. 5	332	95	37	67
Danner, John, Canton, Ohio. Goods-rack	349,212	Sept. 14	924	237	36	1221
Danner, John, Canton, Ohio. Book-shelf	353,443	Nov. 30	2404	643	37	941
Danz, Jacob, 2d. (See Horne and Danz.)						
Darbey, David A., *et al.* (See Brown, Thomas J., assignor.)						
Darby, Frank B., Elmira, N. Y. Dental capsicum plaster	335,799	Feb. 9	1012	267	34	629
Darcy, Hugh, Gloucester, Mass. Boat	341,225	May 4	359	99	35	571
Darden, James D. (See Wheless and Darden.)						
Dardenne, Auguste, Marienbourg, Belgium. Clock-escapement	345,486	July 13	957	242	36	178
Dare, John S., Bloomingdale, Ind. Hasp-lock	351,252	Oct. 19	1634	429	37	312
Dare, John S., Sr., assignor of one-half to A. Conner, Bloomingdale, Ind. Hasp-lock	336,394	Feb. 16	1885	493	34	789
Dare, Lee, La Gro, Ind. Crupper-former	348,319	Aug. 31	2625	708	36	982
Darland, Charles, Dryden, Mich. Window-curtain	341,998	May 18	1403	374	35	784
Darling, Bernard P., assignor of one-half to J. H. Pettit, Shortsville, N. Y. Hoisting-machine	336,630	Feb. 23	2210	577	34	852
Darling, John, Glasgow, county of Lanark, Scotland. Car-coupling	338,041	Mar. 16	1569	407, 408, 409	34	1221
Darling, John G., *et al.* (See Clarke, Reuben, assignor.)						
Darling, Joseph, Karns City, Pa. Check-hook	337,563	Mar. 9	938	240	34	1101
Darling, William H., assignor of one-half to G. P. Harrington, New York, N. Y. Electro-magnetic motor	337,931	Mar. 16	1410	365, 366	34	1193
Darnell, David E., Moorestown, N. J., assignor of one-half to E. C. Crain, Philadelphia, Pa. Pump	336,039	Feb. 9	1339	354	34	686
Darnell, George. (See McGiven, Nichols, and Darnell.)						
Darr, Emory Q., *et al.* (See Saunders, Isaac R., assignor.)						
Darr, Emory Q., Shelbyville, Ind. Combined fish-net and umbrella	335,433	Feb. 2	483	126	34	528
Darr, Emory Q., Shelbyville, Ind. Harness-trace	346,535	Aug. 3	109	29	36	481
Darr, Emory Q., assignor to himself and C. Morrison, Shelbyville, Ind. Seal-press	340,768	Apr. 27	2387	629	35	446
Darrach, Francis L., assignor to H. Darrach, Philadelphia, Pa. Attachment to oil-tanks for preventing explosions and extinguishing fires	340,864	Apr. 27	2516	662	35	469
Darrach, Henry. (See Darrach, Francis L., assignor.)						
Darracott, George, Muncie, Ind. Fruit-jar	353,926	Dec. 7	395	105	37	1079
Darragh, John H., San Francisco, Cal. Rotary engine	343,441	June 8	993	247, 248	35	1194
Darrow, Leslie M., assignor of one-half to B. Gianelli, Stockton, Cal. Ironing-board	352,182	Nov. 9	685	183	37	591
Dart, Rollin C., *et al.* (See Bevier, James, assignor.)						
Dart, Roswell P. (See Frambach, Dart, and Vollrath.)						
Darwin, A. G., *et al.* (See Coles, David H., assignor.)						
Daugherty, Albert C., assignor to himself and J. J. Jones, North Belle Vernon, Pa. Siding for buildings	335,342	Feb. 2	362	94	34	506
Daugherty, Albert C., assignor to himself and J. J. Jones, North Belle Vernon, Pa. Siding for buildings	337,564	Mar. 9	939	240	34	1101
Daughton, John B. (See Schroeder, George G., assignor.)						
Dausch, Pierre G., Baltimore, Md. Thill-coupling	338,493	Mar. 23	2187	572	34	1343
Daveggio, John B., Paicines, Cal. Orchard-guard	333,611	Jan. 5	149	41	34	30
Daveluy, George. (See Gregory, Charles A., assignor.)						
Davenay, James E., assignor of one-third to H. Hittle, Cornforth, Iowa. Buckle	333,930	Jan. 5	595	163	34	112
Davenport, Birge W. (See Beeman, William S., assignor.)						
Davenport, Emery M., Poland, N. Y. Baling short cut hay or straw	340,769	Apr. 27	2388	630	35	446
Davenport, Frank W., Providence, R. I. Draftsman's section-ruler	351,366	Oct. 26	1796	472	37	347
Davenport Portable Scale Company. (See Witherell, Loren R. and E. A., assignors.)						
Davenport, William H., Uxbridge, Mass. Cocking mechanism for breech-loading guns	334,570	Jan. 19	1526	408	34	296
Daves, William, Cranstons, N. Y. Circuit-closer for rails	349,926	Sept. 28	1900	492, 493	36	1426
Daves, William, Cranstons, N. Y. Electric railway-signal	349,927	Sept. 28	1902	493	36	1426
Davey, Henry, Leeds, county of York, England. Low-pressure steam-boiler	338,494	Mar. 23	2188	572	34	1343
Davey, Henry, Leeds, county of York, England. Low-pressure steam-motor	338,934	Mar. 30	2812	742	34	1460
David, Augustin O., Paris, France, assignor to E. Miannay, Elizabeth, N. J. Manufacture of weldless chains	335,899	Feb. 9	1158	307, 308	34	655
Davidson, George, and W. W. Clay, Paris, Ontario, Canada. Needle-cylinder for circular-knitting machines	352,399	Nov. 9	961	258	37	645
Davidson, James H., *et al.* (See Whitney, Samuel C., assignor.)						
Davidson, John M., assignor to Globe Seat Company, Columbus, Ohio. Corner-iron for carriage-seats	348,621	Sept. 7	125	35	36	1070
Davidson, Otis E., Nashville, Tenn. Coffee-roaster	345,370	July 13	792	200	36	148
Davidson, Salomon. (See Bushee, James, assignor.)						
Davidson, Salomon. (See Kelly, Henry H., assignor.)						
Davidson, Samuel C., Belfast, Ireland. Clarifying coffee or cocoa	352,808	Nov. 16	1497	.....	37	753
Davidson, Samuel C., Belfast, Ireland. Clarifying tea	352,809	Nov. 16	1499	.....	37	753
Davidson, Thomas S., Colesburg, Iowa. Hay-carrier	341,642	May 11	934	247, 248	35	688
Davies, Andrew J. (See Higbee, Charles H., assignor.)						
Davies, George A., St. Louis, Mo. Combined latch and lock	343,893	June 15	1611	410	35	1315
Davies, Howell, Coal Creek, Tenn. Mine-ventilator	338,495	Mar. 23	2189	572, 573	34	1343
Davies, James, Mitchell, assignor of one-half to F. M. Pratt, White Lake, Dak. Ter. Ventilating-cover for milk-pans	337,816	Mar. 16	1259	326	34	1165
Davies, John, Peckville, Pa. Oil-cup	347,577	Aug. 17	1543	410	36	766
Davies, John R., Whitewater, Wis. Pattern-plate for molders	334,753	Jan. 26	1782	474	34	352
Davies, Joseph D., Natchez, Miss. Steam pumping-engine	340,984	May 4	18	5, 6	35	509
Davies, Joseph H., West Bromwich, county of Stafford, England. Umbrella or parasol	341,734	May 11	1060	281	35	713
Davies, Squire. (See Dunning, Elisha, assignor.)						
Davies, Thomas, Toronto, Ontario, Canada. Car-coupling	353,208	Nov. 23	2073	554	37	872
Davies, Thomas A., New York, N. Y. Railway-tie	344,168	June 22	2002	513	35	1392
Davies, Thomas A., New York, N. Y. Fish-plate for railway-rails	350,665	Oct. 12	803	218	37	153
Davies, Thomas A., New York, N. Y. Railway-rail joint	350,666	Oct. 12	804	219	37	154
Davies, Thomas E., Hartford, Conn. Harrow or cultivator tooth	350,724	Oct. 12	883	236	37	168
Davies, Walter D., Brooklyn, N. Y., assignor to Ansonia Clock Company, Ansonia, Conn. Pendulum-regulator for clocks	339,867	Apr. 13	1111	277	35	204

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Davies, William E., and W. C. Gayley, Deringer, Pa. Two-wheeled vehicle	334,219	Jan. 12	1030	274	34	200
Davis, Abbott A., assignor of one-half to H. Dutton, Boston, Mass. Tea-kettle cooker	344,308	June 22	2194	563	35	1427
Davis, Abraham, New York, N. Y. Heel-nailing machine	342,786	June 1	17	5	35	1009
Davis, Albert L., Grand Rapids, Mich. Printer's quoin	354,398	Dec. 14	1088	292	37	1212
Davis, Albert T. L. (See Pepper and Davis.)						
Davis, Alfred B., Philadelphia, Pa. Fountain-pen	351,582	Oct. 26	2140	556	37	412
Davis, Andrew J., Hartford, Mich. Weather-strip for doors	337,250	Mar. 2	493	128	34	1017
Davis, Arthur W. S., assignor to F. Taylor, Lowell, Mass. Individual electric signal	336,095	Feb. 16	1436	379	34	710
Davis, Arthur W. S., assignor to F. Taylor, Lowell, Mass. Line-holder for acoustic telephones	347,325	Aug. 17	1186	318	36	700
Davis, Benjamin A., Bermuda Ochre Works, assignor to G. Davis, Petersburg, Va. Dust-collector	351,023	Oct. 19	1334	350	37	257
Davis, Calvin R., Indianapolis, Ind. Harrow attachment for cultivators	352,740	Nov. 16	1405	380	37	737
Davis, Carroll A., assignor to Colts Patent Fire Arms Manufacturing Company, Hartford, Conn. Chase-securing device for printing-machines	351,166	Oct. 19	1520	398	37	292
Davis, Charles C., Cincinnati, Ohio. Roller-skate	340,703	Apr. 27	2297	605	35	429
Davis, Charles C., Cincinnati, Ohio. Roller-skate	341,999	May 18	1404	375	35	784
Davis, Charles D. V. (See Shaw and Davis.)						
Davis, Charles E., Columbus, Ohio. Revolving chair	343,625	June 15	1252	315	35	1248
Davis, Charles E., Columbus, Ohio. Piano and office chair	343,626	June 15	1253	315	35	1248
Davis, Charles E., Columbus, Ohio. Spring-back piano-chair	354,183	Dec. 14	794	210	37	1158
Davis, Charles E., Chicago, Ill. Nut-lock	348,112	Aug. 24	2324	623	36	918
Davis, Charles E., Chicago, Ill. Seal-lock	352,522	Nov. 16	1110	301	37	682
Davis, Charles E., Fort Wayne, Ind. Case or cabinet for filing letters, invoices, &c.	348,955	Sept. 14	570	151	36	1157
Davis, Charles W. (See Cantelli, Joseph J., assignor.)						
Davis, Charles W., and H. Rath, Jr., Philadelphia, Pa. Roll-stick for carpets, &c.	355,145	Dec. 28	2166	571	37	1431
Davis, Chyler B., Chicago, Ill. Apparatus for hermetically sealing cans	345,487	July 13	957	242	36	178
Davis, Chyler B., Chicago, Ill. Apparatus for hermetically sealing cans	345,488	July 13	958	243	36	178
Davis, Chyler B., Chicago, Ill. Apparatus for sealing cans	345,576	July 13	1111	284	36	205
Davis, Corbin E., St. Louis, Mo. Locomotive smoke-consumer	340,985	May 4	22	6	35	509
Davis, Daniel, Jr., Auburndale, and G. F. Gale, Revere, Mass., assignors to Electrical Development and Manufacturing Company, Portland, Me. Signal or call box	337,356	Mar. 2	633	167	34	1043
Davis, Daniel J., *et al.* (See Komp, John F., assignor.)						
Davis, David P., Jersey City, N. J., assignor to New York Safety Steam Power Company, New York, N. Y. Governor for engines	343,702	June 15	1361	340	35	1266
Davis, David W., and W. G. Latimer, Detroit, Mich., assignors to said Latimer. Cash-receiver	340,770	Apr. 27	2389	630	35	446
Davis, Denzel W. (See Spence, Hamilton, assignor.)						
Davis, Edwin S., Winona, Minn. Wagon-body	345,577	July 13	1113	285	36	206
Davis, Ellery C., assignor to himself, G. W. Lewis, and M. Van Dyke, Crookston, Minn. Metallic railway-tie	351,498	Oct. 26	2023	525	37	388
Davis, Ellery C., assignor to himself, G. W. Lewis, and M. Van Dyke, Crookston, Minn. Metallic railway-tie	351,499	Oct. 26	2024	525	37	388
Davis, Francis M., Denver, Colo. Car-wheel	340,986	May 4	23	7	35	509
Davis, Frank, administrator. (See Roeder, Frederick, assignor.)						
Davis, Frank, administrator. (See Springer and Roeder.)						
Davis, Frank B., Honey Brook, Pa. Tobacco-stick holder	347,579	Aug. 17	1546	411	36	767
Davis, Frank E., assignor of one-half to W. W. Harris, Charlestown, N. H. Fire-escape	348,895	Sept. 7	486	129	36	1136
Davis, Franklin C., Springfield, Mass. Combined hay raker and loader	347,578	Aug. 17	1544	411	36	766
Davis, Franklin T., Mount Vernon, N. Y. Check-rein	347,162	Aug. 10	952	254 255	36	649
Davis, Franklin T., Mount Vernon, assignor to himself and A. P. Rockwell, East Chester, N. Y. Combined latch and lock	349,571	Sept. 21	1418	367	36	1326
Davis & Furber Machine Company. (See Wright, Elijah, assignor.)						
Davis, George. (See Davis, Benjamin A., assignor.)						
Davis, George E., and C. R. Look, East Oakland, assignors, by mesne assignments, to G. E. Davis, Brooklyn, Cal. Incubator	339,153	Apr. 6	50	16	35	12
Davis, George H., Washington, D. C. Electric alarm-clock	338,935	Mar. 30	2813	742	34	1460
Davis, George H., Leavenworth, Kans. Lacing-hook for shoes	344,636	June 29	2615	684	35	1518
Davis, George M., Chicago, Ill. Pressure-reducing valve	339,865	Apr. 13	1108	276	35	203
Davis, George W., and C. L. Kinsfatter, Steubenville, Ohio. Device for attaching plungers to glass-presses	346,737	Aug. 3	360	96	36	531
Davis, Henry J., assignor of one-half to E. J. Winslow, Brooklyn, N. Y. Car-coupling	346,626	July 20	1758	452	36	327
Davis, Henry T., New York, N. Y. Quilting-frame for sewing-machines	334,616	Jan. 19	1632	435	34	316
Davis, Herbert, Drayton Park, Highbury, county of Middlesex, England. Apparatus for exhausting or delivering air or other fluid under pressure	354,888	Dec. 28	1803	476 477	37	1363
Davis, Isaac P. (See Patterson and Davis.)						
Davis, Isaac P. (See Patterson, Davis, and Herrman.)						
Davis, Israel A., Englewood, Cal. Riving-machine	339,866	Apr. 13	1110	276	35	204
Davis, Israel D., Stockton, Cal. Tonic	351,829	Nov. 2	136	.....	37	484
Davis, James E., Palmyra, Ohio. Pipe-wrench	333,836	Jan. 5	468	126	34	87
Davis, James E., Palmyra, assignor of one-half to T. C. Snyder, Canton, Ohio. Earth-boring machine	333,931	Jan. 5	596	163	34	112
Davis, James F., Indianapolis, Ind. Air vent and pump	339,384	Apr. 6	383	94	35	72
Davis, James L. (See Adams, William H., assignor.)						
Davis, James M., Nokomis, Ill. Churn	343,627	June 15	1253	315	35	1248
Davis, James R. (See Mignault, Eusebe, assignor.)						
Davis, James W. (See Wilcox, Reuben G., assignor.)						
Davis, James W., Enterprise, Kans. Heating-drum	349,605	Sept. 28	1578	409	36	1365
Davis, Job A., deceased; W. A. Davis executor and assignor of one-half to L. E. Moore, Boston, Mass. Wax-thread sewing-machine	353,252	Nov. 23	2124	569 570	37	882
Davis, Job A., deceased; W. A. Davis executor and assignor of one-half to L. E. Moore, Boston, Mass. Shuttle	353,253	Nov. 23	2127	570	37	883
Davis, Job A., deceased; W. A. Davis executor and assignor of one-half to L. E. Moore, Boston, Mass. Presser-foot-lifting mechanism	353,254	Nov. 23	2127	571	37	883
Davis, Job A., deceased; W. A. Davis executor and assignor of one-half to L. E. Moore, Boston, Mass. Sewing-machine	353,255	Nov. 23	2128	571 572	37	883
Davis, Job A., deceased; W. A. Davis executor and assignor of one-half to L. E. Moore, Boston, Mass. Feed mechanism for sewing-machines	353,257	Nov. 23	2131	572	37	884
Davis, John, Providence, R. I. Bobbin-holder for spindles of spinning-machines	333,997	Jan. 12	687	188	34	137
Davis, John, Albany, N. Y. Carving-machine	336,696	Feb. 16	1438	379	34	711
Davis, John, New York, N. Y. Boring-machine	341,226	May 4	360	100	35	571
Davis, John B., Westhampton, N. J. Shutter-fastener	348,622	Sept. 7	126	35	36	1070
Davis, John H., Covington, Ky. Spring	337,048	Mar. 2	222	59	34	966

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Davis, John K., Philadelphia, Pa. Machine for sizing, straightening, and finishing tubes	336,899	Mar. 2	25	7	34	931
Davis, John M., Staunton, Ill. Sheaf-dumper for harvesters	339,385	Apr. 6	384	95	35	72
Davis, John R., Bristol, Wis. Whiffletree-hook	333,837	Jan. 5	468	127	34	87
Davis, John R., Bristol, Wis. Wagon end-gate	352,860	Nov. 16	1561	421	37	765
Davis, John R., Bristol, assignor of one-half to E. F. Riley, Madison, Wis. Whiffletree-hook	348,191	Aug. 31	2452	659	36	948
Davis, John V., assignor of one-third to F. B. Enslow, Huntington, W. Va. Bolting and purifying flour	347,326	Aug. 17	1187	.....	36	701
Davis, Johnson C., Athens, Ga. Water-elevator	337,251	Mar. 2	494	129	34	1017
Davis, Joseph, Altoona Pa. Steam-engine piston	346,584	Aug. 3	168	45	36	492
Davis, Joseph, New York, N. Y., assignor to himself and N. W. Stearns, Boston, Mass. Bottle-case	353,021	Nov. 23	1793	482	37	818
Davis, Joseph B., Monroeville, Ind. Saw-mill dog	334,515	Jan. 19	1453	390	34	282
Davis, Joseph G., Huntsville, Tex. Corn and cotton planter combined	352,303	Nov. 9	838	226	37	620
Davis, Leonard L. (See Boles, John A., assignor.)						
Davis, Leroy G. (See Lent, Addison, assignor.)						
Davis, Lewis, Jackson, Ohio. Reclining-chair	337,132	Mar. 2	337	88	34	988
Davis, Nathan, Augusta, Ga. Manacle	349,696	Sept. 28	1579	409	36	1365
Davis, Nathan H., Philadelphia, Pa. Spring	337,669	Mar. 9	1063	274	34	1124
Davis, Nathan R., Freetown, Mass. Breech-loading fire-arm	346,536	Aug. 3	110	29, 30	36	481
Davis, Oliver W., and L. A. Lyon, Waterbury Centre, Vt. Evaporator-cover	353,444	Nov. 30	2405	643	37	941
Davis & Rankin. (See Komp, John F., assignor.)						
Davis, Richard B. (See Johnston, James C., assignor.)						
Davis, Robert C., Indianapolis, Ind. Heel	333,612	Jan. 5	151	41	34	30
Davis, Samuel. (See Garrigues and Davis.)						
Davis, Samuel. (See Gerhardt, John, assignor.)						
Davis, Samuel J. (See Alldridge, Arthur H., assignor.)						
Davis Sewing Machine Company. (See Poor, Nelson P., assignor.)						
Davis, Solomon P., Napa, Cal. Lifting-jack	337,484	Mar. 9	840	213	34	1084
Davis, Solomon P., Napa City, Cal. Two-wheeled vehicle	345,371	July 13	794	200	36	148
Davis & Son, I. B. (See Shepard, Wilbur L., assignor.)						
Davis, Stephen S., Chicago, Ill. Tilting gate	333,504	Jan. 5	10	4	34	5
Davis, Theodore D., Williamsport, Pa. Spring chair and seat	333,998	Jan. 12	687	188	34	137
Davis, Theodore D., Syracuse, N. Y. Hand-rake	337,932	Mar. 16	1412	366	34	1193
Davis, Theodore D., Williamsport, Pa. Hand-rake	337,933	Mar. 16	1415	366	34	1193
Davis, Thomas, and W. W. Tyler, Cleveland, Ohio. Feed-water heater	337,670	Mar. 9	1064	274	34	1124
Davis, Thomas, and W. W. Tyler, Cleveland, Ohio; said Tyler assignor to said Davis. Feed-water heater and purifier	345,578	July 13	1114	285	36	206
Davis, Thomas, and H. H. McDonough, East Boston, Mass. Lubricator	351,967	Nov. 2	344	95	37	522
Davis, Thomas O. M. (See Fatkin, James, assignor.)						
Davis, W. M. (See Marks, Thomas K., assignor.)						
Davis, Walter S., Contoocook, N. H. Paper-box machine	352,304	Nov. 9	839	226, 227	37	620
Davis, Willard A., executor. (See Davis, Job A.)						
Davis, William. (See Phillips, John H., assignor.)						
Davis, William B., assignor of one-half to J. W. Stephens, Norfolk, Va. Kitchen-boiler cleaner	337,748	Mar. 9	1160	301	34	1140
Davis, William E., Chelsea, assignor to J. Grant, Boston, Mass. Billiard-chalk holder	337,311	Mar. 2	581	153	34	1033
Davis, William H., Fort Wayne, Ind. Letter and index holder	337,671	Mar. 9	1065	275	34	1124
Davis, William H., and W. Hatfield, Fort Wayne, Ind.; said Hatfield assignor to said Davis. Paper-file holder	346,537	Aug. 3	112	30	36	481
Davis, William J., Pittston, Pa. Potato-digger	345,032	July 6	335	84	36	61
Davis, William M., assignor of two-thirds to J. F. Baya and J. D. Callaway, Lake City, Fla. Preserving fruits	354,184	Dec. 14	796	211	37	1158
Davis, William T., Battle Creek, Mich. Steam-boiler	344,253	June 22	2115	540	35	1413
Davis, Zebulon, Cleveland, Ohio. Center-draft lamp	342,584	May 25	2249	598	35	947
Davis, Zebulon, Cleveland, Ohio. Vapor-burner	353,927	Dec. 7	396	105	37	1079
Davis, Zebulon, Cleveland, Ohio. Lamp	354,048	Dec. 7	576	156	37	1110
Davison, Adoniram J., St. Joseph, Mo. Book and paper folding machine	339,668	Apr. 13	1113	277	35	204
Davison, Alexander Y., *et al.* (See Melson, John T., assignor.)						
Davison, George W. (See Davison, James P., assignor.)						
Davison, James P., assignor of one-half to G. W. Davison, Watervliet, N. Y. Corn-shaver	346,585	Aug. 3	169	45, 46	36	492
Davison, Thomas A., Kellerville, Ill. Vehicle-coupling	354,307	Dec. 14	973	258	37	1190
Dawes, Edward L., and A. Haarlander, Allegheny, Pa. Burner for gas	350,815	Oct. 12	1015	271	37	191
Dawson, Edward, Brooklyn, N. Y. Feed-bag for horses	342,951	June 1	253	64	35	1052
Dawson, George A., Cardington, Ohio. Grain-separator	348,515	Aug. 31	2905	781	36	1035
Dawson, John F., assignor to L. S. Burridge, New York, N. Y. Type-writing machine	334,693	Jan. 19	1697	453	34	327
Dawson, Walter, assignor of one-half to W. F. Hallstead, Scranton, Pa. Locomotive-boiler	348,831	Sept. 7	388	105	36	1120
Day, Aaron G., assignor of one-half to J. I. Parsons, Colebrook, N. H. Breast collar or strap for harness	339,271	Apr. 6	223	56	35	42
Day, Andrew J., Pittsburg, Pa., assignor to himself and W. F. Thompson, Cleveland, Ohio. Attachment for rod-rolling mills	336,703	Feb. 23	2315	606	34	873
Day, Benjamin B., *et al.* (See Rew, Richard A., assignor.)						
Day, Charles B. (See Geery, Jackson, and Day.)						
Day, Edward G., Riverside, Conn. Lemon holder and squeezer	335,343	Feb. 2	363	94	34	506
Day, Frank P., Jackson, Mich. Bath-tub	336,797	Feb. 23	2433	640	34	895
Day, George H., assignor to Pope Manufacturing Company, Hartford, Conn. Wheel for velocipedes	344,442	June 29	2379	612	35	1468
Day, Henry M., *et al.* (See Marston, David W., assignor.)						
Day, John Q., Red Cliff, Colo. Ore-conveyer	344,169	June 22	2003	513	35	1392
Day, John R., New York, N. Y. Tower-pipe attachment for hook-and-ladder trucks	339,272	Apr. 6	225	56	35	42
Day, John W., Chicago, Ill. Knob attachment	349,483	Sept. 21	1299	337	36	1303
Day, John W., assignor to D. M. Stewart, York Sulphur Springs, Pa. Ratchet-wrench	343,628	June 15	1255	315	35	1248
Day, Luther. (See Knipe and Day.)						
Day, Robert E. (See Lord, Henry S., assignor.)						
Day, Thomas. (See Saxton, Richard J., assignor.)						
Day, William H. (See Allen and Tichenor, assignors.)						
Dayan, Squire C., Syracuse, N. Y. Broom-holder	343,302	June 8	773	193	35	1155
Dayton, Aaron O., Camden, N. J. Car-axle box	341,096	May 4	163	49	35	535
Dayton Manufacturing Company. (See Kirby, John, Jr., assignor.)						
Dayton, Melville E. (See Daniels, Samuel, assignor.)						
Dayton, Melville E., Chicago, Ill. Car-wheel-truing machine	334,647	Jan. 19	1633	435, 436, 437	34	316
Dayton, William H., Torrington, Conn. Wire-pointing machine	341,558	May 11	817	218	35	664

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Dayton, William H., assignor to Excelsior Needle Company, Torrington, Conn. Machine for sticking needles	344,945	July 6	203	52, 53	36	38
Dayton, William H., assignor to Excelsior Needle Company, Torrington, Conn. Machine for grooving sewing-machine needles	351,900	Nov. 2	239	67, 68	37	502
D'Esté, Julian, Medford, Mass. Valve for water-closets	335,022	Jan. 26	2124	566	34	414
D'Heureuse, Rudolph, New York, N. Y. Drill for wood and other materials	334,757	Jan. 26	1786	475	34	352
De Aguirre y Lizaola, José M., Bilbao, Spain. Lift or hoist	337,049	Mar. 2	223	59, 60	34	966
De Barbaran, Albert C., New York, N. Y. Permanent way of railways	351,693	Oct. 26	2305	599	37	441
De Beaumont, Alexandre, Camden, N. J., and S. Snellenburg, Philadelphia, Pa.; said Snellenburg assignor, by mesne assignments, to T. B. Harned, Camden, N. J. Feed mechanism for sewing-machines	352,231	Nov. 9	744	200	37	603
De Bousignac, Leopold. (See De Virloy, Commelin, and Bailbache, assignors.)						
De Buell, Arthur. (See Noyes and Gardner, assignors.)						
De Castro, Alfred. (See Sundström, Karl J., assignor.)						
De Cazenave, Simon. (See Charmantier and De Cazenave.)						
De Coppet, Francis V., Cincinnati, Ohio. Ice-machine	351,368	Oct. 26	1799	473	37	347
De Costa, Benjamin F. (See Witherell, Frank D., assignor.)						
De Earheart, Thomas M., *et al.* (See Sturgis, Charles M., assignor.)						
De Ferranti, Sebastian Z., 5 Stanwick Road, West Kensington, county of Middlesex, England. Mechanism for making spectacle-frames	338,340	Mar. 23	1972	518, 519, 520	34	1305
De Ferranti, Sebastian Z., West Kensington, county of Middlesex, England. Electric meter	338,588	Mar. 23	2305	603, 604	34	1362
De Ferranti, Sebastian Z., West Kensington, county of Middlesex, England. Unipolar dynamo-electric machine	341,097	May 4	165	49, 50	35	535
De Forest, Thomas B. (See Fowler, Thaddeus, assignor.)						
DeGolyer, Norman T., Milwaukee, Wis. Shifting device for mills	343,442	June 8	997	248, 249	35	1194
De Guerre, Peter, Toronto, Ontario, Canada. Base-plate for rail-chairs	338,589	Mar. 23	2308	604	34	1362
De Hardt, John, Kansas City, Mo. Burning brick	337,672	Mar. 9	1066	275	34	1125
De Huff, John L., Reading, Mass. Router-plane	350,352	Oct. 5	334	96	37	68
De Jean, Fred. E., Newburyport, Mass. Can or box	336,094	Feb. 16	1434	379	34	710
De Khotinsky, Achilles, Rotterdam, Netherlands. Secondary electric battery	347,231	Aug. 10	1042	278	36	664
De Kinder, Joseph J. (See Giebeler, Ernst A. C., assignor.)						
De Kinder, Joseph J., Philadelphia, Pa. Pump	335,111	Feb. 2	14	5	34	443
De Kinder Joseph J., Philadelphia, Pa. Valve	335,112	Feb. 2	16	5	34	443
De la Bastie, François, B. A. R., Paris, France. Manufacture of articles made from toughened glass	334,754	Jan. 26	1783	474	34	352
De La Hooke, Henry A., Toledo, Ohio. Indicator-lock for car-doors	340,422	Apr. 20	1896	487	35	353
De la Mar, Joseph, Poughkeepsie, N. Y. Machine for stripping and booking tobacco	346,028	July 20	1761	453	36	328
De La Matyr, Fred. (See Hughes, Judson, assignor.)						
De Lamar, John R. (See Hooper, William, assignor.)						
De Lano, Frank S., assignor of one-half to A. Kraus, Toledo, Ohio. Apparatus for teaching spelling	342,076	May 18	1528	408	35	808
De Laski, Albert, Lynn, Mass. Sad-iron	345,033	July 6	336	85	36	61
De Laval, Gustaf, Stockholm, Sweden. Centrifugal creamer	335,344	Feb. 2	363	94, 95	34	507
De Lavernède, Ferdinand T. (See Barrier and De Lavernède.)						
De Lemos, Theodore, and A. W. Cordes, New York, N. Y. Construction of buildings	334,694	Jan. 19	1698	433	34	397
De Lisser, Richard L., Brooklyn, N. Y. Centrifugal filter	337,050	Mar. 2	225	60	34	967
De Lisser, Richard L., Brooklyn, N. Y. Filtering device or stone	340,295	Apr. 20	1726	.....	35	320
De Lodyguine, Alexandre, Paris, France. Manufacture of incandescents	347,164	Aug. 10	954	.....	36	649
De Logerot, Richard, New York, N. Y. Ventilator	334,571	Jan. 19	1529	409	34	296
De Long, Alexander W., *et al.* (See De Voe, Louis F., assignor.)						
De Lue, Samuel J., assignor, by mesne assignments, to himself and J. R. Atwood, Natick, Mass. Lathe for turning lasts and other articles	339,274	Apr. 6	230	57	35	42
De Ma. Campos, Manuel, Cardenas, Cuba. Locomotive steam-valve	344,171	June 22	2005	514	35	1392
De Mello Souza, Pedro, Jr., Itbaca, N. Y. Plaiting-machine	343,912	June 15	1634	417, 418	35	1319
De Meuron & Cuénod, A., *et al.* (See Thury, René, assignor.)						
De Mott, Jacob, Frenchtown, N. J. Railway-tie	339,275	Apr. 6	231	58	35	43
De Neve, Anthony P. (See Mets, Elisha, assignor.)						
De Palos, James S., New York, N. Y. Price and quantity register for gas-meters	346,402	July 27	2278	584, 585	36	436
De Palos, James S., New York, N. Y. Pressure-regulator	346,403	July 27	2280	585	36	436
De Pauw, W. C. (See Bernard, Philippe, assignor.)						
De Pew, Henry H., Maquoketa, Iowa. Convertible chain. (Reissue)	10,779	Nov. 2	556	147, 148	37	562
De Quillfeldt, Charles, New York, N. Y. Tool for forming threads, &c., upon bottles, &c.	333,733	Jan. 5	327	90	34	61
De Quillfeldt, Charles, New York, N. Y. Bottle-stopper	344,638	June 29	2647	684	35	1518
De Redon, Constant F., assignor to J. F. Moreau, Paris, France. Electric bell	333,614	Jan. 5	153	42	34	31
De Rycke, J. Joseph, New York, N. Y. Water-closet	334,941	Jan. 26	2009	536	34	394
De Sabla, Theodore J., New York, N. Y. Velocipede	341,736	May 11	1062	282	35	713
De Silva, Dwight M., assignor to M. Olcott and H. H. Kendall, Corning, N. Y. Combined tobacco box and cutter	335,435	Feb. 2	485	126	34	529
De Solomé, George F., assignor to J. S. Page, New York, N. Y. Galvanic battery	344,946	July 6	204	53	36	38
De Solomé, George F., assignor to J. S. Page, New York, N. Y. Connection for galvanic batteries	344,947	July 6	206	53	36	38
De Solomé, George F., assignor to J. S. Page, New York, N. Y. Automatic means for opening and closing electric circuits	344,948	July 6	207	53	36	38
De Souza, Antoine, Paris, France. System of utilizing wave-power	335,113	Feb. 2	18	6	34	444
De St. Aubin, Charles A. A. T., St. Louis, Mo. Galvanic battery and switch for telephone systems	338,938	Mar. 30	2816	743	34	1460
De St. Laurent, William, London, England. Gas-lamp	350,419	Oct. 5	418	120	37	82
De Steiger, Edward A. (See De Steiger, Joseph L. and E. A.)						
De Steiger, Edward A., La Salle, Ill. Fruit-jar	336,800	Feb. 23	2437	641	34	895
De Steiger, Joseph L. and E. A., La Salle, Ill. Fruit-jar	340,428	Apr. 20	1897	487	35	353
De Tamble, Martin, assignor to Roth, McMahon & Co., Chicago, Ill. Cake, jumble, and snap machine. (Reissue)	10,691	Feb. 23	2559	675, 676	34	918
De Valin, William H., San Rafael, Cal. Variable crank and eccentric	335,745	Feb. 9	930	245	34	614
De Vault, William H., assignor of one-half to W. H. Small, Martinsville, Ind. Cutter-bar connection for mowers	350,531	Oct. 12	602	166	37	116
De Villeroche, Emma B., and A. Chatelard, Concarneau, France. Manufacture of metal cans and boxes	342,503	May 25	2148	568	35	927
De Virloy, Alexandre L., E. Commelin, and G. Bailhache, assignors of one-fourth to L. De Bousignac, Paris, France. Secondary battery	345,124	July 6	450	116	36	82

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
De Voe, Louis F., assignor of one-half to A. W. De Long and C. Allman, Huntington, Ind. Washing-machine	341,836	May 11	1190	318	35	738
De Voe, Wesley M., Springfield, Ohio. Photographic-printing-frame stand	340,987	May 4	24	7	35	510
De Wandelaer, John A., Washington, D. C. Dumping-wagon	345,775	July 20	1410	365	36	266
De Witt, Augustus, Birdsborough, Pa. Eaves-trough brace and hanger	338,718	Mar. 30	2506	663	34	1404
De Witt, Caleb S., Lockport, Ill. Spool for barbed wire	338,043	Mar. 16	1572	409	34	1221
De Witt, Edward A., Odessa, N. Y. Sulky-plow	347,472	Aug. 17	1398	372	36	738
De Witt, John C., Owensborough, Ky. Wire-stretcher	349,985	Sept. 28	1991	514	36	1443
De Zayas y Moreno, Ambrosio, Matanzas, Cuba. Cigarette-machine	353,054	Nov. 23	1852	500, 501	37	827
De Zeng, Henry L., Geneva, assignor to himself, A. G. Lucas, Utica, and W. D. Burrall, Waterloo, N. Y. Fastening for railway-rails	334,696	Jan. 19	1700	454	34	328
De Zeng, Henry L., Geneva, assignor to himself, A. G. Lucas, Utica, and W. D. Burrall, Waterloo, N. Y. Metallic railway-tie and fastening for rails	348,550	Sept. 7	12	3	36	1050
Deadmore, James R., Abingdon, Va. Fruit-drier	344,637	June 29	2646	684	35	1518
Deakin, Thomas J. (See Warner and Deakin.)						
Deal, Jacob J., Jonesville, Mich. Two-wheeled vehicle	334,939	Jan. 26	2006	535	34	393
Deal, Josiah J., Wilmot, Ohio. Fabric-turfing implement	347,163	Aug. 10	953	235	36	649
Deal, Josiah J., assignor to W. M. Johnston, Wilmot, Ohio. Force-pump	337,749	Mar. 9	1161	302	34	1141
Dean, John L., Columbia, Ohio. Ore-washer	354,104	Dec. 14	663	178	37	1136
Dean, Edgar E. (See Fish and Dean.)						
Dean, Ellen M. (See Coburn and Dean.)						
Dean, George W., New York, N. Y. Exercise rocking-chair	337,934	Mar. 16	1416	366	34	1194
Dean, James B., Stockton, N. J. Wrench	347,580	Aug. 17	1547	411	36	767
Dean, Meshach, Wolstanton, county of Stafford, England. Adjustable lid-holder for teapots and other vessels	352,609	Nov. 16	1228	332	37	703
Dean, Richard, Cleveland, Ohio. Apparatus for distilling hydrocarbon oils	342,500	May 25	2143	567	35	926
Dean, William J., Minneapolis, Minn. Harvester	344,254	June 22	2116	541	35	1413
Dean, William W. (See Ramel and Dean.)						
Dean, Zadok W., White Ash, assignor to C. L. Fitzhugh, Allegheny City, Pa. Knife for nail-cutting machines	355,065	Dec. 28	2051	539	37	1408
Deane, Erasmus M., St. Paul, Minn. Sled	344,354	June 29	2261	581	35	1446
Deane, Ezra L., Holyoke, Mass. Adjustable head for T-squares	349,697	Sept. 28	1580	409	36	1365
Deane, Royal E., New York, N. Y. Oven-plate	353,290	Nov. 30	2183	585	37	900
Deaner, Andrew M. V. B. (See Bowman, John E., assignor.)						
Dear, James W., Dayton, Ohio. Corn-planter	337,485	Mar. 9	841	213	34	1084
Dearborn, Wyman, Boston, assignor to F. R. Hall, Brookline, Mass. Cotton-gin	340,294	Apr. 20	1724	439	35	320
Dearth, Albert E. (See Dearth, Charles F., assignor.)						
Dearth, Charles F., assignor of one-half to A. E. Dearth, East Sangerville, Me. Floor-clamp	352,120	Nov. 9	578	154	37	574
Death, William E., Brixton, county of Surrey, England. Apparatus for scutching and cleansing fibrous stems, leaves, and the like	336,395	Feb. 16	1886	493	34	789
Debenoit, Auguste. (See Berthon and Debenoit.)						
Debuysére, Carl, Stuttgart, Wurtemberg, Germany. Finger-exercising device	336,216	Feb. 16	1630	425, 426	34	743
Decaix, Désiré F. A., Paris, France. Steam-engine	351,097	Oct. 19	1430	375	37	274
Deck, Henry, Swanton, Ohio. Carpenter's and painter's scaffold	338,253	Mar. 23	1854	487	34	1284
Deckard, Levi L., Middletown, Pa. Electrical appliance for dental chairs	353,403	Nov. 30	2351	627	37	930
Decker, Charles F., *et al.* (See Bunce, Lewis D., assignor.)						
Decker, Charles F., Salt Lake City, Utah Ter. Washing-machine	336,299	Feb. 16	1760	460	34	764
Decker, Cornelius, assignor, by mesne assignments, of one-half to A. Trombly, Pullman, Ill. Car-axle box	337,565	Mar. 9	940	241	34	1102
Decker, George F., Johnstown, N. Y. Base-board and wainscoting	346,899	Aug. 10	577	154	36	580
Decker, Lizzie, Sandusky County, Ohio. Pants	355,256	Dec. 28	2332	613	37	1464
Decker, Peter H., Ellenville, N. Y. Lead-corroding pot	347,997	Aug. 24	2162	575	36	887
Decker, Riley, assignor of one-half to C. S. Barrett, Charlotte, Mich. Folding table	346,027	July 20	1761	453	36	328
Decouflé, Anatole E., Paris, France. Cigarette-machine	345,415	July 13	859	214, 215	36	160
Decouflé, Anatole E., Paris, France. Apparatus for manufacturing cigarette-tubes	349,785	Sept. 28	1725	445	36	1391
Dederick, Ezra, Milwaukee, Wis. Car-starter	345,281	July 13	671	170	36	127
Dederick, Ezra, Milwaukee, Wis. Car-coupling	345,282	July 13	673	170	36	127
Dederick, Ezra, Milwaukee, Wis. Driving mechanism for cars	354,889	Dec. 28	1805	477	37	1363
Dederick, Levi, Albany, N. Y. Carriage fire-ladder	339,273	Apr. 6	226	57	35	42
Dederick, Peter K., Loudonville, N. Y. Baling-press	333,999	Jan. 12	688	188	34	137
Dederick, Peter K., Loudonville, N. Y. Baling-press	334,000	Jan. 12	689	189	34	137
Dederick, Peter K., Loudonville, N. Y. Baling-press	334,001	Jan. 12	691	189, 190	34	138
Dederick, Peter K., Loudonville, N. Y. Baling-press	334,002	Jan. 12	693	190	34	138
Dederick, Peter K., Loudonville, N. Y. Baling-press	334,003	Jan. 12	695	191	34	138
Dederick, Peter K., Loudonville, N. Y. Baling-press	334,004	Jan. 12	696	191, 192	34	138
Dederick, Peter K., Loudonville, N. Y. Baling-press	334,005	Jan. 12	699	192	34	139
Dederick, Peter K., Loudonville, N. Y. Baling-press	337,935	Mar. 16	1416	367	34	1194
Dederick, Peter K., Loudonville, N. Y. Baling-press	338,936	Mar. 30	2814	742	34	1460
Dederick, Peter K., Loudonville, N. Y. Baling-press	341,559	May 11	818	218	35	664
Dederick, Peter K., Loudonville, N. Y. Baling-press	341,560	May 11	819	218, 219	35	665
Dederick, Peter K., Loudonville, N. Y. Baling-press	347,327	Aug. 17	1188	318	36	701
Deeble, John, assignor of one-half to J. B. Savage, Southington, Conn. Manufacture of ox-shoes	336,900	Mar. 2	27	7	34	932
Deeble, John, assignor of one-half to J. B. Savage, Southington, Conn. Die for trimming ox-shoes	336,901	Mar. 2	28	7	34	932
Deeble, John, assignor of one-half to J. B. Savage, Southington, Conn. Ox-shoe	338,937	Mar. 30	2815	742	34	1460
Deeds, John B., Terre Haute, Ind. Metallic packing	344,084	June 22	1886	484	35	1371
Deeds, John B., assignor of one-half to L. S. Calder, Terre Haute, Ind. Hydrocarbon generator and burner	342,189	May 18	1662	444	35	833
Deeley, John, Jr., Aston, county of Warwick, England. Cartridge-extractor for break-down guns	335,021	Jan. 26	2121	565	34	414
Deeley, John, Jr., Aston, county of Warwick, England. Cartridge-extractor for break-down guns	348,452	Aug. 31	2812	756	36	1018
Deere & Mansur Company. (See Atkinson and White, assignors.)						
Deere & Mansur Company. (See White and Morphy, assignors.)						
Deering & Co., William. (See Dixon, Robert H., assignor.)						
Deering & Co., William. (See Maske, Robert W., assignor.)						
Deering & Company, William. (See Olin and Coddington, assignors.)						
Deering, James A., Gloucester, Mass. Swinging center-board for vessels	341,643	May 11	935	248	35	688

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Deering, Mark L., Cleveland, Ohio. Beer-pump	342,901	June 1	175	44, 45	35	1037
Deering, Michael, assignor to C. C. Bradley, Syracuse, N. Y. Power-hammer	355,146	Dec. 28	2167	571	37	1431
Deering, Robert F., assignor to himself and M. McNitt, Washington, Kans. Fence-machine	352,678	Nov. 16	1329	358, 359	37	721
Deering, William. (See Noyes, La Verne W., assignor.)						
Deering, William. (See Snow, Gilbert B., assignor.)						
Dees, Mark A., Moss Point, Miss. Locomotive-brake	342,585	May 25	2251	598	35	947
Deevy, Patrick, Dudley, Iowa Wheeled scraper	346,147	July 27	1921	496	36	368
Degges, William H., assignor of three-fourths to E. W. Creecy, Washington, D. C. Pipe-cleaning device	351,500	Oct. 26	2025	526	37	388
Deguenant, Louis, Cour-Cheverny, France. Time stock-feeder	354,308	Dec. 14	974	259	37	1190
Dehekker, John J. T., Sedgwick, Kans. Automatic grain weigher and register	350,816	Oct. 12	1015	272	37	192
Dehne, Albert L. G., Halle-on-Saale, Prussia, Germany. Purifying feed-water	344,085	June 22	1887	484	35	1371
Dehné, William H., Chelsea, Mass. Joiner's set	344,033	June 22	1867	465	35	1357
Deissler, Peter, Philadelphia, Pa. Meat-cutter	353,483	Nov. 30	2464	658	37	952
Deissler, Peter, assignor of one-half to W. Deissler, Philadelphia, Pa. Device for converting motion	342,586	May 25	2253	598	35	943
Deissler, William. (See Deissler, Peter, assignor.)						
Deitz, Henry. (See Urie, Thomas, assignor.)						
Deitz, John M., Otisco, Mich. Wagon-stake	339,976	Apr. 13	1253	312	35	229
Del Genovese, Virgilio. (See Ghezzi, Romeo E., assignor.)						
Del Valle, Eliseo. (See Arteaga and Del Valle.)						
Delahunty, James, Merrimac, Mass. Carriage-body	337,252	Mar. 2	495	129	34	1017
Delamare-Debouteville, Edouard, and L. P. C. Malandin, Fontaine-le-Bourg, Seine-Inférieure, France. Gas-engine	333,838	Jan. 5	469	127	34	87
Delamater & Co., C. H. (See Frenzel, Arthur B., assignor.)						
Deland, Edward W., Saco, Me. Baitbox	353,022	Nov. 23	1795	482	37	816
Delaney, Alexander, and J. M. Bond, Richmond, Va. Saw-mill dog	344,355	June 29	2262	581	35	1446
Delaney, Alexander, and J. M. Bond, Richmond, Va. Saw-mill dog	344,356	June 29	2264	582	35	1446
Delaney, Alexander, and W. Simpkin, Richmond, Va. Apparatus for the purification of gas	348,832	Sept. 7	389	105	36	1120
Delaney, Edward J., San José, Cal. Spray-nozzle	334,110	Jan. 12	857	236	34	166
Delaney, Henry J., *et al.* (See Russell, Edward A., assignor.)						
Delano, William H. (See Benton, Samuel, assignor.)						
Delano, William W., Jr., Waterbury, Vt. Churn	336,217	Feb. 16	1634	427	34	743
Delanoy, Charles H., Jr., New York, N. Y. Towel-holder	336,704	Feb. 23	2316	606	34	873
Delany, Adolphus M., Kingsville, Mo. Tool for working wire	352,523	Nov. 16	1112	301	37	682
Delashmutt, William G. (See Hainley, Franklin E., assignor.)						
Delattre, Carlos. (See Pirou, Marie V., assignor.)						
Delhaye, Henry, Paris, France. Grain-conveyer	351,854	Nov. 2	184	50	37	492
Delitsch, Bernhard. (See Voigt, F. Herman, assignor.)						
Delker, George, Henderson, Ky. Running-gear for wagons	343,114	June 1	492	124	35	1095
Dell, William H., New York, N. Y. Folding bed	335,434	Feb. 2	484	126	34	528
Delmage, William A., Lowell, Mass. Machine for spinning fibrous material	344,170	June 22	2004	514	35	1392
Delmage, William A., Lowell, Mass. Scavenger mechanism for spinning and drawing machines	351,314	Oct. 19	1721	452	37	327
Delmage, William A., assignor of one-half to A. A. Hanscom, Lowell, Mass. Spindle-step for spinning-machines	336,300	Feb. 16	1761	460	34	765
Delpy, François F., Paris, France. Corset-clasp	347,094	Aug. 10	859	227	36	630
Delorieux, John. (See Toulouse and Delorieux.)						
Demarest, Dewitt C., Denver, Colo. Fountain-pen	340,865	Apr. 27	2517	662	35	470
Demarest, Dewitt C., Denver, Colo. Fountain-pen	353,053	Nov. 23	1851	500	37	827
Demarest, John, assignor to J. L. Mott Iron Works, New York, N. Y. Cistern for water-closets	337,133	Mar. 2	338	88	34	988
Demarest, John, assignor to J. L. Mott Iron Works, New York, N. Y. Bath-tub fittings	339,386	Apr. 6	385	95	35	72
Demarest, John, assignor to J. L. Mott Iron Works, New York, N. Y. Cistern overflow-valve	348,663	Sept. 7	181	48	36	1079
Demarest, John, assignor to J. L. Mott Iron Works, New York, N. Y. Valve for water-closets	352,643	Nov. 16	1276	344	37	710
Demary, George T., Boston, Mass., assignor to National Heeling Machine Company, Portland, Me. Heel-nailing machine	342,501	May 25	2145	567	35	927
Demary, George T., Boston, Mass., assignor to National Heeling Machine Company, Portland, Me. Heel-nailing machine	343,703	June 15	1362	340, 341	35	1267
Dembrun, Guillaume, New Orleans, La. Apparatus for repairing dikes and dams	342,077	May 18	1529	408	35	808
Deming, Charles G., Leeds, N. Y. Vehicle-wheel	350,918	Oct. 19	1157	307	37	225
Deming, Ernest, Middletown, Conn. Halter-trimming	334,755	Jan. 26	1785	474	34	352
Deming, Ernest, Middletown, Conn. Suspender-end	336,396	Feb. 16	1886	493	34	789
Deming, Ernest, Middletown, Conn. Suspender-end	337,750	Mar. 9	1161	302	34	1141
Deming, William L. (See Haydn, George, assignor.)						
Demmer, Mathew N. (See Wilhelm and Demmer.)						
Demoret, Jacob E. (See McCarty, Lewis C., assignor.)						
Demoss, Andrew J., and W. S. Pearce, Noblesville, Ind. Sawing-machine	349,984	Sept. 28	1990	514	36	1442
Dempsey, James H., Chicago, Ill. Hoof-pad	345,283	July 13	674	170	36	128
Denick, Henry H., Chicago, Ill. Safety device for entrances against burglars	343,894	June 15	1612	410	35	1315
Denio, George F., Oneida, N. Y. Thill-lug	348,453	Aug. 31	2814	756	36	1018
Denis, Augustus H., New Orleans, La. Coffee-pot	350,818	Oct. 12	1018	272	37	192
Denise, O. H. (See McNeill, Solomon, assignor.)						
Denison, Henry, *et al.* (See Graves, John, assignor.)						
Denison, James R., Grand Rapids, Mich. Water-heater	347,332	Aug. 17	1194	319	36	702
Denison, Joseph D. (See Morse, Charles F., assignor.)						
Denison, Russel A., Providence, R. I. Insulating electric cables	334,850	Jan. 26	1897	506	34	373
Dennead, John W., assignor of one-half to J. H. Stratton, Akron, Ohio. Making files	355,147	Dec. 28	2169	572	37	1431
Dennead, John W., and R. L. McAllister, assignors of one-third to J. Christy, Jr., Akron, Ohio. Rotary engine	346,029	July 20	1764	454	36	328
Denmead, William C., Baltimore, Md. Rotary valve	344,172	June 22	2007	514	35	1393
Denn, Clayton, Philadelphia, Pa. Stop-motion for warping-machines	338,042	Mar. 16	1571	409	34	1221
Dennett Harvesting Machine Company. (See Bullock, Joseph P., assignor.)						
Denney, Harmer, Brooklyn, N. Y. Tag-making machine	334,220	Jan. 12	1031	274, 275	34	200
Denney, Mifflin P., New York, N. Y. Combined hay rake and tedder	349,928	Sept. 28	1903	493	36	1427
Denney, Mifflin P., New York, N. Y., assignor to F. A. Lehmann, Washington, D. C. Combined hay rake and tedder	349,484	Sept. 21	1300	338	36	1303
Denney, Samuel L., Gap, assignor to I. L. Landis, Lancaster, Pa. Automatic swinging gate	350,189	Oct. 5	128	36	37	27

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Dennis, A. C. (See Brink, John L., assignor.)						
Dennis, Benjamin A., assignor to E. B. Crocker, Pawtucket, R. I. Check-rein hook	341,561	May 11	820	219	35	665
Dennis, Ephraim K., New Bedford, Mass. Safety-loop for harness-checks	353,484	Nov. 30	2465	659	37	952
Dennis, Fred F., Worcester, Mass. Metal-planing machine	335,744	Feb. 9	928	245	34	614
Dennis, John, and J. A. Coram, Lowell, assignors to said Coram and S. M. Crosby, executor of N. Crosby, deceased, Boston, Mass. Soap press	333,505	Jan. 5	10	5	34	5
Dennis, Samuel, Hornellsville, N. Y. Animal-trap	354,599	Dec. 21	1389	368	37	1273
Dennis, Theodore A., assignor of one-half to G. B. Jenkinson, Newark, N. J. Trunk-catch	342,502	May 25	2147	568	35	927
Dennis, Wilbert J., Augusta, Ga. Plant and tree culture apparatus	349,087	Sept. 14	757	193	36	1189
Dennison, Alfred. (See Wightman, Olin C., assignor.)						
Denny, George, La Cygne, Kans. Wagon-brake	343,895	June 15	1612	411	35	1315
Deno, Joseph, and T. H. Reardon, assignors, by mesne assignments, to said Reardon and J. Cawley, Lowell, Mass. Centerer	347,925	Aug. 24	2062	547	36	870
Denslow, William H., assignor of one-half to J. Joralemon, Troy, Pa. Heater	334,695	Jan. 19	1699	453	34	328
Densmore, Edwin, Grand Rapids, Mich. Portable house	341,735	May 11	1061	282	35	713
Densmore, Edwin, Grand Rapids, Mich. Portable furnace	347,328	Aug. 17	1189	318	36	701
Densmore, Edwin, Grand Rapids, Mich. Gluing-machine	347,329	Aug. 17	1190	318	36	701
Densmore, Edwin, Grand Rapids, Mich. Machine for drying veneers	347 330	Aug. 17	1191	319	36	701
Densmore, Edwin, Grand Rapids, Mich. Machine for cutting veneers	347,331	Aug. 17	1192	319	36	702
Denton, Albert A., Bavaria, Kans. Apparatus for exposing large surfaces of liquid to air or vapor or gas	339,387	Apr. 6	386	96	35	72
Denton, Albert A., Bavaria, Kans. Apparatus for evaporating liquid by air	339,388	Apr. 6	389	96	35	73
Denton, Albert A., Bavaria, Kans. Evaporating apparatus	339,389	Apr. 6	393	96	35	73
Denton, Albert A., Bavaria, Kans. Apparatus for evaporating liquids by air	353,291	Nov. 30	2184	585	37	900
Denton, Albert A., Bavaria, Kans. Apparatus for evaporating liquids by air	353,292	Nov. 30	2186	585	37	900
Denton, Albert A., Bavaria, Kans. Apparatus for evaporating liquids by air	353,293	Nov. 30	2188	585, 586	37	900
Denton, James E., Hoboken, N. J. Rock-drill	335,900	Feb. 9	1159	308, 309	34	655
Denton, James E., Hoboken, N. J. Foot for rock-drills	335,901	Feb. 9	1161	309	34	655
Denton, James E., Hoboken, N. J. Bushing for rock-drill chucks	336,397	Feb. 16	1887	494	34	790
Denton, Jarret W., Henderson, Ky. Gate	352,524	Nov. 16	1113	301	37	682
Denton, Joseph B., Newtown, N. Y. Fertilizer-distributer	336,798	Feb. 23	2434	640	34	895
Denver, James, New Haven, Conn. Car-seat arm	334,756	Jan. 26	1785	474	34	352
Denzer, Solomon, *et al.* (See Powell and Nolan, assignors.)						
Depp, Hezekiah E., Sedalia, Mo. Air-compressor	333,613	Jan. 5	152	41	34	30
Depp, Thomas, Moore's Station, and E. H. Selby, Marysville, Cal. Gate	334,516	Jan. 19	1454	390, 391	34	283
Depp, William E., Brookville, Pa. Churn-dasher	352,610	Nov. 16	1228	333	37	703
Deprez, Marcel, and J. Carpentier, Paris, France. Regulator for dynamo electric generators	348,385	Aug. 31	2716	729	36	999
Depuy, Martin M. and W. B., Rowland, Pa. Bicycle	349,145	Sept. 14	837	213	36	1205
Depuy, William B. (See Depuy, Martin M. and W. B.)						
Derby & Ball *et al.* (See Marston, David W., assignor.)						
Derby, George H., Somerville, Mass. Lumber-drier	334,940	Jan. 26	2007	535	34	393
Derby, Scott B., Utica, Nebr. Bird-cage bracket	336,218	Feb. 16	1635	427	34	743
Derham, Samuel G., New York, assignor to C. P. Lenk, Brooklyn, N. Y. Filtering fabric	336,799	Feb. 23	2436	640	34	895
Derham, Samuel G., New York, assignor to C. P. Lenk, Brooklyn, N. Y. Pressure-filter	337,486	Mar. 9	642	213	34	1084
Déri, Maximilian. (See Zipernowsky, Déri, and Bláthy.)						
Derick, Myron L., Brockton, Mass. Gossamer fabric and manufacturing the same	344,086	June 22	1888	484	35	1372
Dering, H. R., *et al.* (See Le Grande, William W., assignor.)						
Dering, W. W., *et al.* (See Le Grande, William W., assignor.)						
Dernberger, Homer J., Oxford, Mich. Carriage-top attachment	351,253	Oct. 19	1636	429	37	312
Dernell, Charles F., assignor of one-half to G. H. Herpick, Indianapolis, Ind. Carriage-top joint	340,105	Apr. 20	1436	363	35	268
Deronin, Alfred. (See Millen and Deronin.)						
Derrick, Fred E., and S. C. Brott, Lansingburg, N. Y. Electric alarm-clock	351,746	Nov. 2	21	6	37	462
Derrick, Morris B., *et al.* (See Johnson, Enos H., assignor.)						
Derrick, Rodolphus F., assignor of one-third to M. J. Green, Oroville, Cal. Variable nozzle	351,968	Nov. 2	345	95	37	522
Derthick, John. (See Rarig and Derthick.)						
Dery, Jules E., Brussels, Belgium. Carbureting-lamp	334,851	Jan. 26	1898	506	34	373
Desbruères, François P., J., and P., Paris, France. Measuring piece goods	343,303	June 8	773	193	35	1155
Desbruères, Jean. (See Desbruères, François P., J., and P.)						
Desbruères, Pierre. (See Desbruères, François P., J., and P.)						
Descalzo, Joseph P., Peters, Cal. Combined harvester and thrasher	350,667	Oct. 12	805	219, 220	37	154
Desdouits, Eusèbe V. V. de Paul, Paris, France. Self-acting brake	354,399	Dec. 14	1089	293	37	1213
Desjardins, Jules R., Burlington, Vt. Windmill	339,977	Apr. 13	1254	312, 313	35	230
Desmarais, Joseph, Lawrence, Mass. Thill-coupling	339,390	Apr. 6	397	96	35	74
Desmond, John, Cleveland, Ohio, assignor to R. Stephens, Detroit, Mich. Steam-injector	334,354	Jan. 12	1232	331	34	236
Desmond, John, assignor to R. Stephens, Detroit, Mich. Injector	336,398	Feb. 16	1888	494	34	790
Desruelles, Lucien A. W., Paris, France. Utilization of the residual liquids from batteries	350,296	Oct. 5	264	.....	37	54
Desruelles, Lucien A. W., Paris, France. Protective coating for the electrodes of batteries	350,297	Oct. 5	265	.....	37	54
Dessau, Morland M., South Framingham, Mass. Dauber for blacking-brushes	351,098	Oct. 19	1431	375	37	274
Detroit Iron Tower Company. (See Adams, John S., assignor.)						
Detroit Steel and Spring Works. (See Graether, Theodore, assignor.)						
Detroit Stove Works. (See Cope, Henry P., assignor.)						
Detterer, John T., Willshire, Ohio. Bedstead	337,936	Mar. 16	1419	367	34	1194
Detwiler, Jacob P. (See Dungan, Thomas B., assignor.)						
Deubel, James P., Ypsilanti, Mich. Middlings-purifier	352,810	Nov. 16	1500	404	37	753
Deuel, Jacob, Poughkeepsie, N. Y., assignor, by mesne assignments, to Palmer Torpedo Signal Company, Plainfield, N. J. Torpedo railway-signal	343,304	June 8	774	194	35	1156
Deuel, Jacob, Poughkeepsie, N. Y., assignor, by mesne assignments, to Palmer Torpedo Railway Signal Company, Plainfield, N. J. Attachment for torpedo railway-signals	345,774	July 20	1409	365	36	266
Deuel, William, Bryan, Ohio. Plow	353,668	Dec. 7	20	6	37	1011
Deuscher, Henry P. (See Snider, Worthington, J., assignor.)						
Deutgen, Emil. (See Spühl, Heinrich, assignor.)						
Deutsch, Ignatz, deceased; J. Deutsch administratrix and assignor of one-half to B. B. Abrahams, Philadelphia, Pa. Quilting-machine	354,049	Dec. 7	578	156, 157	37	1111
Deutsch, Jennie, administratrix. (See Deutsch, Ignatz.)						
Deutsch, William M., Elizabeth, N. J. Filter	355,004	Dec. 28	1960	517	37	1392
Deutsch, William M., Elizabeth, N. J. Filter	355,005	Dec. 28	1965	517	37	1392
Deutschbein, Joseph, assignor of one-half to W. McDonald, Albany, New York. Register for gas-meters	353,781	Dec. 7	175	48	37	1039

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Devany, James M., Hoboken, N. J. Machine for scraping rattan	335,800	Feb. 9	1012	268	34	629
Deverall, Edwin R., New York, N. Y. Nozzle, &c., for cans	339,533	Apr. 6	620	151	35	112
Deverall, Edwin R., New York, N. Y. Gasket for jars	344,173	June 22	2007	514	35	1399
Deverall, Frederick J., Jersey City, N. J., assignor, by mesne assignments, to Deverall Manufacturing Company, New York, N. Y. Reversible stopper for cans, bottles, &c	342,338	May 25	1897	502	35	884
Deverall, Frederick J., Brooklyn, assignor to Deverall Manufacturing Company, New York, N. Y. Bottle-stopper	350,353	Oct. 5	336	96	37	67
Deverall, Frederick J., Brooklyn, assignor to Deverall Manufacturing Company, New York, N. Y. Stopper	350,454	Oct. 5	489	137	37	94
Deverall Manufacturing Company. (See Deverall, Frederick J., assignor.)						
Devereaux, William, assignor to himself and M. Murphy, Chicago, Ill. Guard for pivot or swing bridges	354,105	Dec. 14	665	179	37	1136
Devereaux, William C., and M. Murphy, assignors to said Devereaux and M. Raphael, Chicago, Ill. Draft-equalizer	343,659	June 15	1293	325	35	1255
Deverell, Persse, assignor to himself and J. B. Robinson, Rouseville, Pa. Clothes-drier	337,566	Mar. 9	942	241	34	1102
Devero, John W., assignor of one-half to G. H. Johnson, Corning, Kans. Blacksmith's shears	351,024	Oct. 19	1335	350	37	257
Devereux, Walter B., Aspen, Colo. Slag-buggy	335,114	Feb. 2	21	7	34	444
Devers, James M., *et al.* (See Devers, William J., assignor.)						
Devers, William J., assignor to himself, J. M. Devers, and W. T. O'Malley, Providence, Pa. Vehicle-brake	337,134	Mar. 2	339	88	34	988
Devisme, Samuel, Los Angeles, Cal. Mechanical movement	344,357	June 29	2265	582	35	1447
Devitt, Thomas, and M. L. Sise, Springfield, Ohio. Post-hole auger	352,305	Nov. 9	845	228	37	621
Devlin & Co., Thomas. (See Koeberle, John, assignor.)						
Devoe & Co., F. W. (See Whytal, Frank G., assignor.)						
Devore, Levi M., assignor of one-half to C. D. Knowlton, Freeport, Ill. Ribbon-holder	353,627	Nov. 30	2681	718	37	992
Devore, Morris H., Lawrenceburg, Ind. Fish-plate lock	340,940	Apr. 27	2614	688	35	487
Dew, Martin, Cass City, Mich. Self-raking attachment for reapers and harvesters	337,751	Mar. 9	1162	302	34	1141
Dewald, Edward G., Cincinnati, Ohio. Roller-mill	344,478	June 29	2424	624	35	1476
Dewart, William, Rochester, N. Y. Combined spring fastener and shield for bows or neckties	342,862	June 1	122	31	35	1029
Dewees, John W., Philadelphia, Pa. Fabric-trimmer	355,148	Dec. 28	2169	572	37	1432
Dewees, William B., Salina, Kans. Abdominal and spinal brace	344,639	June 29	2648	685	35	1519
Dewert, Benjamin F. (See Williams and Dewert.)						
Dewey, Addice E., *et al.* (See Holbrook, Charles E., assignor.)						
Dewey, Alvah, and J. Short, assignors of one-third to I. Dunn and T. Cullen, Cannelton, Ind. Grain-huller	346,738	Aug. 3	361	97	36	531
Dewey, Charles L. (See Dewey, Plinney F., assignor.)						
Dewey, Chauncey E., *et al.* (See Carpenter, Frank R., assignor.)						
Dewey, John J., St. Paul, Minn. Butter-board for harvesters	342,288	May 18	1812	480	35	860
Dewey, John J., assignor of one-half to J. B. Beals and I. E. Norton, St. Paul, Minn. Automatic grain-binding harvester	342,287	May 18	1809	479	35	860
Dewey, John M., Shell Rock, Iowa. Stock-waterer	352,047	Nov. 2	458	124	37	545
Dewey, Plinney F., assignor of one-half to C. L. Dewey, Minneapolis, Minn. Odorless excavating apparatus	336,902	Mar. 2	29	8	34	932
Dewey, William C., *et al.* (See Kenney, Thomas M., assignor.)						
Dewhirst, Elmer W., *et al.* (See Castle, Samuel D., assignor.)						
Dewhurst, John H. (See Hodgkinson and Dewhurst.)						
Dexter, Everett A., Black River, and J. Chase, Rochester, N. Y. Chair. (Reissue)	10,754	Aug. 10	1162	311	36	687
Dexter, George A., and E. J. Patterson, Waltham, Mass. Device for supporting the drop-rolls of warping-machines	336,301	Feb. 16	1762	461	34	765
Dexter, Talbot C., Des Moines, Iowa. Paper folding and pasting machine	347,333	Aug. 17	1194	320	36	702
Dey, William W., Altoona, Pa. Latch	352,679	Nov. 16	1332	359	37	721
Dezendorf, John F., *et al.* (See Warner, John P., assignor.)						
Dial, Wilbur F., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Sewing-machine	350,044	Sept. 28	2061	533	36	1456
Dial, Wilbur F., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Sewing-machine	350,045	Sept. 28	2063	533	36	1456
Diamond Match Company. (See Mantion, Macdonald, and Riley, assignors.)						
Diamond, Matthew, Tarrytown, and W. H. Brock, Newtown, N. Y. Making drill-bits	333,506	Jan. 5	13	5	34	6
Diamond Safety Razor Company. (See Partridge, Andrew, assignor.)						
Diamond Saw Company. (See Barber, Adin M., assignor.)						
Dibble, Horace V. (See Lawrence and Dibble.)						
Dibble, John L., Brooklyn, N. Y. Puzzle	340,296	Apr. 20	1727	440	35	320
Dibble, Seymour H., assignor of one-half to M. I. Weller, Washington, D. C. Heating attachment for lamps	340,988	May 4	88	34	35	988
Dibble, Stephen J., *et al.* (See Walker, William C., assignor.)						
Dick, Dundas, New York, N. Y. Protected menthol cone	337,135	Mar. 2	340	88	34	988
Dick, Joseph, Jr., Canton, Ohio. Feed-cutter	344,949	July 6	208	54	36	39
	341,320	May 4	496	134 135	35	594
Dick, Joseph C. F., Belvidere, Ill. Button-attaching machine	354,969	Dec. 28	1914	505	37	1384
Dick, Robert, Glasgow, Scotland. Manufacture of incandescents	349,572	Sept. 21	1420	.....	36	1327
Dick, Robert, Glasgow, county of Lanark, Scotland. Insole for boots or shoes	354,693	Dec. 21	1531	406	37	1299
Dickason, John, Vevay, Ind. Fence	340,988	May 4	25	7	35	510
Dickason, John, Vevay, Ind. Fence	340,989	May 4	26	7	35	510
Dickens, Samuel T., Joplin, Mo. Electric burglar-alarm	344,358	June 29	2268	582 583	35	1447
Dickenson, Charles, Portland, Oreg. Automatic marine governor	337,817	Mar. 16	1261	327	34	1165
Dickerman, Amos, New Haven, Conn. Mechanism for cupping paper shells for cartridges	347,165	Aug. 10	955	255 256	36	649
Dickerman, Amos, New Haven, Conn. Heading paper cartridge-shells	347,166	Aug. 10	957	256	36	650
Dickerman, Amos, assignor of one-half to C. Pierpont, New Haven, Conn. Breech-loading fire-arm	354,890	Dec. 28	1806	477	37	1363
Dickerson, Edward N., Jr. (See Hughes, John M., assignor.)						
Dickerson, William M., assignor of one-half to L. W. Holloway, Indianapolis, Ind. Band-saw mill	340,990	May 4	27	8	35	510
Dicket, Peter, and A. Hendrickson, West Liberty, Iowa. Shoe	346,739	Aug. 3	362	97	36	531
Dickey, John S., Payne, Tex. Churning device	343,015	June 1	326	84	35	1066
Dickey, John S., and W. P. McKinney, Payne, Tex. Bedstead-fastener	346,646	Aug. 3	252	69	36	509
Dickey, John T., Trenton, N. J. Pad-cover for carriage-steps	349,986	Sept. 28	1991	514	36	1443
Dickieson, James W., Brooklyn, N. Y. Ruling-machine	340,866	Apr. 27	2519	663	35	470
Dickinson, Alfred, Darlaston, county of Stafford, England. Wheeled carriage	352,306	Nov. 9	846	228	37	622
Dickinson, Andrew G. (See Daniels and Dickinson.)						
Dickinson, Benjamin, Bourne End, county of Bucks, England. Screw-propeller	344,898	July 6	146	37	36	27
Dickinson, Charles B., Brooklyn, N. Y. Vaginal-syringe tip	354,309	Dec. 14	976	259	37	1191

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Dickinson, Elmer, Belair, Mich. Mower	334,758	Jan. 26	1788	475	34	353
Dickinson, Henry C., Springfield, Mass. Rotary chair for railway-carriages	341,098	May 4	167	51	35	535
Dickinson, Newton A., Chester, Conn. Beading attachment for lathes	343,443	June 8	999	249	35	1195
Dickinson, Paul, Chicago, Ill. Seed-planter	339,978	Apr. 13	1256	313 314	35	230
Dickinson, Silas C., Wilton, Iowa. Electric-clock movement	334,517	Jan. 19	1456	391	34	283
Dickinson, Silas C., Wilton, Iowa. Electric-clock movement	346,094	July 27	1844	476	36	354
Dickman, George, *et al.* (See Conard, Léon P., assignor.)						
Dickson, Donald W. (See Roe, Frederick A., assignor.)						
Dickson, Elwood, Kewanee, Ill. Automatic grain-weigher	342,902	June 1	176	45	35	1037
Dickson, Henry, assignor to S. C. Dickson, Pittsburg, Pa. Manufacture of brick, tile, drain-pipes, &c	346,358	July 27	2212	567	36	423
Dickson, Henry, assignor to S. C. Dickson, Pittsburg, Pa. Making brick	346,359	July 27	2213	567 568	36	423
Dickson, Henry, assignor to S. C. Dickson, Pittsburg, Pa. Making brick	346,360	July 27	2215	568	36	424
Dickson, Henry, assignor to S. C. Dickson, Pittsburg, Pa. Making brick	346,361	July 27	2217	568 569	36	424
Dickson, Henry, assignor to S. C. Dickson, Pittsburg, Pa. Drying brick	346,362	July 27	2219	569	36	424
Dickson, James H., Philadelphia, Pa. Engraver's turn-table or holder	340,429	Apr. 20	1898	488	35	353
Dickson, John A., Pulaski, Tenn. Automatic wagon-brake	346,196	July 27	1986	512	36	381
Dickson, John S., assignor to Pittsburg Hob Nail Manufacturing Company, Pittsburg, Pa. Sleeve-nut	339,534	Apr. 6	621	151	35	113
Dickson, Robert M. (See Jewell and Dickson.)						
Dickson, Spartan C., Greenville, S. C. Cotton-thinner	335,180	Feb. 2	134	34	34	465
Dickson, Susan C. (See Dickson, Henry, assignor.)						
Dickson, William R., Pittsburg, Pa. Grinding and polishing machine	354,627	Dec. 21	1437	381	37	1281
Dickson, William R., assignor of two-thirds to J. E. Hall and L. A. Bradley, Pittsburg, Pa. Drilling-machine	353,124	Nov. 23	1944	521	37	847
Dicus, James A., assignor to W. N. Whiteley, Springfield, Ohio. Machine for cutting teeth upon saw and other similar blanks	341,461	May 11	691	185	35	640
Diefendorf, Abram. (See Eckerson, David I., assignor.)						
Diehl, Peter, Gloversville, N. Y. Machine for breaking hides or skins	346,900	Aug. 10	578	154	36	580
Diehl, Philip. (See Greene and Diehl.)						
Diehl, Philip, Elizabeth, N. J. Electric lighting system	350,482	Oct. 12	539	150	37	107
Diehl, Philip, Elizabeth, N. J. Electric motor	350,668	Oct. 12	807	220	37	154
Diehl, Philip, Elizabeth, N. J. Commutator for dynamo-electric machines and electric motors	351,167	Oct. 19	1521	399	37	292
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Sewing-machine shuttle	337,818	Mar. 16	1262	327	34	1165
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Tension device for sewing-machines	339,623	Apr. 13	775	192	35	143
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Feeding mechanism for sewing-machines	339,624	Apr. 13	777	192	35	143
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Fastener for sewing-machine covers	340,991	May 4	29	8	35	511
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Sewing-machine	347,776	Aug. 24	1841	490	36	828
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Tension device for sewing-machines	347,777	Aug. 24	1843	491	36	829
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Trimming device for sewing-machines	348,113	Aug. 24	2325	623 624	36	919
Diemer, John F., Elizabeth, N. J., and P. E. Gonon, New York, N. Y. Paper-box	354,694	Dec. 21	1531	406	37	1299
Diemer, Thomas, Springfield, Mo. Car-coupling	342,825	June 1	74	18	35	1020
Dienelt & Eisenhardt. (See Eisenhardt, George F., assignor.)						
Diener, Frederic, San Antonio, Tex. Ice-machine	348,192	Aug. 31	2453	659	36	948
Dierdorff, Henry B., assignor to J. A. Jeffrey, Columbus, Ohio. Rotary engine	350,354	Oct. 5	337	96	37	68
Dierkes, Henry A., New York, N. Y. Call-bell	353,848	Dec. 7	277	73	37	1057
Diestel, Johann C. F. W., Altona, Prussia, Germany. Till-lock	345,125	July 6	451	116 117	36	82
Dieter, Louis F. (See Kelly and Dieter.)						
Dieterich, Daniel P., Philadelphia, Pa. Hose-protector	349,929	Sept. 28	1905	493	36	1427
Dieterich, Fred G., Washington, D. C. Gripping device for cable railways	351,501	Oct. 26	2027	526 527	37	388
Dieterichs, Emil F., Cleveland, Ohio. Fodder-block	355,257	Dec. 28	2333	.....	37	1465
Dieterle, Henry E., assignor to B. Eldredge, Chicago, Ill. Sewing-machine	353,542	Nov. 30	2554	681 682	37	969
Dietz, Frederick. (See Betts, Lewis F., assignor.)						
Dietz, Frederick, New York, N. Y. Lantern globe-support	346,095	July 27	1845	476	36	354
Dietz, Frederick, New York, N. Y. Lantern-globe support	354,970	Dec. 28	1915	506	37	1384
Dietz, Henry F., Newark, N. J. Dyeing hat-bodies	341,409	May 4	614	.....	35	616
Dietz, Joseph A., assignor of one-half to E. J. Wimmer, St. Mary's, Pa. Making leather water-proof	334,518	Jan. 19	1457	.....	34	283
Dietz, Robert E. (See Betts, Lewis F., assignor.)						
Dieu, Alexander, New York, N. Y. Car-brake	353,782	Dec. 7	177	48, 49	37	1039
Diffenderfer, Aaron, and J. Zerby, Allensville, Pa. Sash-holder	343,570	June 15	1182	297	35	1235
Dike, George. (See Bennett, Dike, and Rich.)						
Dike, Orange B., and E. N. Rood, Guthrie Centre, Iowa. Churn	352,811	Nov. 16	1501	404	37	753
Dikeman, Charles W., Racine, Wis. Safety attachment for locomotive-tenders	348,454	Aug. 31	2815	756	36	1018
Dilg, Henry W. (See Thielsen, Giroux, and Dilg.)						
Dill, Mathew, Piqua, Ohio. Car-coupling	334,355	Jan. 12	1233	331	34	236
Dill, Richard M., Morgantown, Ind. Combined waste way and drain for ponds	337,819	Mar. 16	1263	327	34	1165
Dillard, Allie, Old Church, Va. Drill-hoe	339,154	Apr. 6	52	17	35	13
Dillemuth, Fredrick. (See Sheer and Dillemuth.)						
Dillen, Wilburn, Atchison, Mo. Plow	348,193	Aug. 31	2454	659	36	948
Dillenbeck, Jerome, and J. W. Neabr, Palatine Bridge, N. Y. Hop-box awning	335,115	Feb. 2	23	7	34	444
Dilley, Abraham T., assignor of two-thirds to J. G. Skinner and W. E. Carpenter, Vicksburg, Miss. Plow	343,950	June 15	1684	432	35	1328
Dilley, Martin A., Wasepi, Mich. Railway-crossing	337,253	Mar. 2	496	129 130	34	1017
Dillman, David H., Fredericksburg, Pa. Fire-escape	341,321	May 4	498	136	35	595
Dillon, Daniel, Nashville, Tenn. Fan	338,939	Mar. 30	2817	743	34	1461
Dillon, Ellen, Sioux City, Iowa. Flat-iron heater	346,740	Aug. 3	362	97	36	531
Dillon, John W., Cattettsburg, Ky. Staple-driving implement	350,420	Oct. 5	420	120	37	83
Dillon, William A., Detroit, Mich. Sad-iron	341,322	May 4	499	136	35	595

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Dillon, William H., Glasgow, Ky. Shoe-fastening	338,044	Mar. 16	1573	410	34	1221
Dilworth, J. C. (See Laverty, Charles E., assignor.)						
Diman, Charles C., Fall River, assignor to Atherton Machine Company, Lowell, Mass. Traveler-cleaner for ring-spinning frames	338,831	Mar. 30	2671	703	34	1433
Di Marzo, Vincent, Benicia, Cal. Self-regulating lamp	339,911	Apr. 13	1168	291	35	215
Dimon, Charles A. R., assignor to United States Cartridge Company, Lowell, Mass. Cartridge-shell-trimming machine	351,747	Nov. 2	24	6, 7	37	463
Dimon, Frank S., assignor of one-half to B. F. Hepler, Fort Scott, Kans. Artificial fuel	345,217	July 6	573	146	36	104
Dine, Charles L. (See Dine, John M., assignor.)						
Dine, John M., Canton, assignor of one-half to C. L. Dine, Pierce, Ohio. Gate	340,033	Apr. 13	1341	335	35	245
Dingee, Samuel. (See Hennessy, Thomas B., assignor.)						
Dingman, Allan H., Toronto, Ontario, Canada. Machine for waxing paper	351,748	Nov. 2	27	7	37	464
Dingman, William R., Niantic, Ill. Refrigerator attachment for wells	335,686	Feb. 9	837	222	34	597
Dinkel, George, Jersey City, N. J. Machine for sifting powdered sugar, &c	347,473	Aug. 17	1400	372, 373	36	739
Dinner, Isaac H., Boston, Mass. Cap	352,453	Nov. 9	1027	277	37	658
Dinsmoor, Charles, Warren, Pa. Vehicle	351,749	Nov. 2	28	7	37	464
Dinsmore, Sewall A., *et al.* (See Houghton, Darius, assignor.)						
Dinsmore, William G., Oakland, Cal. Oil-can	338,832	Mar. 30	2672	703	34	1433
Dion, Joseph P., and J. P. Kelly, Biddeford; said Dion assignor to G. Moore, Berwick, Me. Heel-burnishing machine	341,798	May 11	1136	300, 301	35	727
Dion, Leon O., Natick, Mass. Rivet	354,971	Dec. 28	1916	506	37	1384
Dion, Peter, assignor of one-sixteenth to E. D. Smith, Toledo, Ohio. Wheel	345,218	July 6	574	146	36	104
Dippert, William E., Des Moines, Iowa. Hame	354,628	Dec. 21	1439	382	37	1281
Direkx, Charles L., Taos, Mo. Corn-harvesting machine	348,154	Aug. 24	2382	639	36	929
Disbrow, Myron H., Rochester, N. Y. Basket	353,352	Nov. 30	2270	606	37	914
Dishmaker, John B., Carlton, Wis. Cockle and grain separator	337,051	Mar. 2	227	60	34	967
Dismant, Enos. (See Goodwin, Thomas A., assignor.)						
Dissett, Thomas, Rochester, N. Y. Delivery-wagon	334,759	Jan. 26	1789	475	34	353
Disston, Thomas S., Philadelphia, Pa. Adjustable stool and seat	348,386	Aug. 31	2717	730	36	1000
Ditch, John A., Chicago, Ill. Composition for blackboard-walls	339,155	Apr. 6	53	.....	35	13
Dittrick, Thomas B., East Tawas, Mich. Barrel-roller	345,034	July 6	338	85	36	62
Diver, James B., *et al.* (See Matteson, Eugene L., assignor.)						
Dixon, Charles A., assignor to R. Whitehill, Newburg, N. Y. Surface-condenser	351,583	Oct. 26	2150	556, 557	37	412
Dixon, Ellis W., Yakima, Wash. Ter. Washing-machine	337,136	Mar. 2	341	89	34	989
Dixon, Ezra, Bristol, R. I. Saddle for top rolls of spinning-machines	354,400	Dec. 14	1090	293	37	1213
Dixon, Henry M., New York, N. Y. Combined ice-pick, chisel, and mallet	347,998	Aug. 24	2163	576	36	887
Dixon, Henry M., New York, assignor to himself and H. S. Hollingsworth, Brooklyn, N. Y. Soldering-iron	334,942	Jan. 26	2013	536	34	394
Dixon, James, assignor to H. Brewster, J. W. and C. M. Britton, and C. J. Richter, New York, N. Y. Vehicle-body	340,297	Apr. 20	1729	440	35	213
Dixon, John A., assignor of one-half to P. W. Moen, Worcester, Mass. Machine for wrapping coils or bundles of wire	351,584	Oct. 26	2152	557	37	412
Dixon, Robert H., assignor to W. Deering & Co., Chicago, Ill. Pitman-rod connection for mowers and reapers	344,034	June 22	1808	465	35	1357
Dixon, Robert H., and G. H. Carver, Ravenswood, Ill. Mower	346,538	Aug. 3	113	30	36	482
Dixon, Samuel W., assignor of one-half to T. F. Morrison, Findlay, Ohio. Kiln for pottery, &c	339,535	Apr. 6	622	151, 152	35	113
Dixon, Walter L., Milford, assignor of one-half to J. C. Daggett, Boston, Mass. Guide for sewing-machines	353,258	Nov. 23	2131	573	37	884
Dixon, William. (See Oldham and Dixon.)						
Doan, Israel, assignor to Wilcox Manufacturing Company, Aurora, Ill. Door-hanger	352,741	Nov. 16	1406	380	37	737
Doane, William H., Cincinnati, Ohio. Planing and matching machine	335,994	Feb. 9	1275	338, 339	34	675
Doane, William H., Cincinnati, Ohio. Cutter-head	337,487	Mar. 9	843	213	34	1084
Doane, William H., Cincinnati, Ohio. Spoke-throating machine	340,969	Apr. 27	2570	677	35	479
Doane, William H., Cincinnati, Ohio. Duplex planing and matching machine	350,190	Oct. 5	129	37, 38	37	27
Doane, William H., Cincinnati, Ohio. Planing-machine	352,307	Nov. 9	847	228	37	622
Dobbie, Archibald, Thorold, Ontario, Canada. Hoisting-machine	345,489	July 13	961	244	36	178
Dobbins, David P., Buffalo, N. Y. Alarm-whistle for steam-boilers	334,519	Jan. 19	1457	391	34	283
Dobbins, David P., Buffalo, N. Y. Life-boat	352,525	Nov. 16	1114	302	37	682
Dobbs, Charles G., New York, N. Y. Register-front	344,640	June 29	2649	685	35	1519
Dobson, Charles E., assignor to H. Benary's Sons, New York, N. Y. Banjo	338,142	Mar. 16	1705	444	34	1247
Dobson, Isaac F., *et al.* (See Laskey, John H., assignor.)						
Dobson, James, *et al.* (See Hinchliffe, James, assignor.)						
Dobson, James, *et al.* (See Pearson, Charles, assignor.)						
Dobson, John, *et al.* (See Hinchliffe, James, assignor.)						
Dobson, John, *et al.* (See Pearson, Charles, assignor.)						
Dobson, Minnie, New York, N. Y. Banjo-frame	344,569	June 29	2554	660	35	1500
Dobson Patent Tanning Process Company. (See Dobson, Stoddard J., assignor.)						
Dobson, Stoddard J., assignor to Dobson Patent Tanning Process Company, Lincoln, Nebr. Tanning hides and skins	340,199	Apr. 20	1583	.....	35	295
Dobson, William A., Bloomington, Ill. Balance slide-valve	339,979	Apr. 13	1261	314	35	231
Dockendorf, Daniel O., Sheldon, Iowa. Chaff-guide for grain-separators	350,298	Oct. 5	265	76	37	54
Dockstader, Dennis S. (See Huidekoper, Mambourg, Houze, and Dockstader.)						
Dodd, Frank H., Hyde Park, Ill. Printer's furniture	344,035	June 22	1810	465	35	1357
Dodd, Frederick, Philadelphia, Pa. Washing-machine	350,873	Oct. 12	1094	292	37	206
Dodd, Union, South Bend, assignor to W. Holland, Plymouth, Ind. Bridge-gate	336,843	Feb. 23	2497	658	34	907
Dodds, Joseph H. and T., Cedartown, Ga. Fertilizer-distributer	337,312	Mar. 2	582	153	34	1033
Dodds, Samuel J., and O. A. Inman, West Point, Ill. Windmill	354,972	Dec. 28	1917	506	37	1384
Dodds, Thomas. (See Dodds, Joseph H. and T.)						
Dodge, A. Edgar, Woburn, Mass. Leather-splitting machine	337,820	Mar. 16	1264	327, 328	34	1166
Dodge, Almon P. (See Collins, Olmstead, assignor.)						
Dodge, Carlton A. (See Lewis and Dodge.)						
Dodge, Celinda A., Kinnickinnick, Wis. Milk-strainer	347,581	Aug. 17	1548	412	36	767
Dodge, Charles F., Philadelphia, Pa. Car-starter	334,111	Jan. 12	858	236	34	166
Dodge, Charles F., Philadelphia, Pa. Canvas-stretcher	339,276	Apr. 6	233	58	35	43
Dodge, Christopher G., Jr., Baltimore, Md. Vent-bung and faucet-plug	334,520	Jan. 19	1458	391	34	284
Dodge, Ezra S. (See Adams and Dodge.)						
Dodge, George H., Philadelphia, Pa. Gripping device for cable cars	340,034	Apr. 13	1342	336	35	245
Dodge, Israel A., Brady, Tex. Appliance for training horses	346,989	Aug. 10	693	184	36	601
Dodge, J. Wesley, Malden, Mass. Sole-edge-burnishing machine	339,049	Mar. 30	2985	789, 790	34	1488

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Dodge, James F., Winthrop, Mass. Bellows	342,686	May 25	2396	635 636	35	974
Dodge, James M., Philadelphia, Pa., assignor to Ewart Manufacturing Company, Chicago, Ill. Drive-chain	352,742	Nov. 16	1407	380	37	737
Dodge, James M., Philadelphia, Pa., assignor to Ewart Manufacturing Company, Chicago, Ill. Conveyer-chain	353,256	Nov. 23	2130	572	37	884
Dodge Manufacturing Company. (See Roy, Isidore V., assignor.)						
Dodge, Martin, *et al.* (See Johnson, Delbert E., assignor.)						
Dodge, Theodore A., trustee. (See Shaler, Nathaniel S., assignor.)						
Dodge, Theodore A., Brookline, Mass. Machine for manufacturing bottle-covers	336,097	Feb. 16	1440	380	34	711
Dodge, Thomas H., Worcester, Mass. Stocking	338,341	Mar. 23	1975	520	34	1305
Dodge, Wallace H. (See McNeal, Charles, assignor.)						
Dodge, Wallace H., Mishawaka, Ind. Rope-splice	345,219	July 6	575	147	36	104
Dodge, Wallace H., Mishawaka, Ind. Band-saw pulley	348,269	Aug. 31	2560	688	36	968
Dodge, Wallace H., Mishawaka, Ind. Wooden pulley-covering	348,270	Aug. 31	2561	688	36	968
Dodge, Wallace H., Mishawaka, Ind. Band-saw mill	353,669	Dec. 7	21	7	37	1011
Dodson, Roy, Central, Mo. Nut-lock	333,839	Jan. 5	471	128	34	87
Dodson, Watkins H. (See Jarrell, William, assignor.)						
Dodson, Wilson P., Philadelphia, assignor of one-half to A. H. Ege, Mechanicsburg, Pa. Railway-frog	344,087	June 22	1889	484	35	1372
Dodsworth, Robert. (See Holdsworth, John W., assignor.)						
Doe, Edson, South Newbury, Vt. Jointed link for engines	349,485	Sept. 21	1302	339	36	1303
Doebler, John F., Rockville, Conn. Baking-pan	346,808	Aug. 3	436	119	36	545
Doeg, Issachar W., assignor of one-half to A. J. Nichols, New Market, N. H. Self-lubricating journal-bearing	352,680	Nov. 16	1333	359	37	722
Doehring, Carl F. W., Leipsic, Saxony, Germany. Fire-proof ceiling and floor	347,474	Aug. 17	1401	373	36	739
Doell, Lorenz, Lutesville, Mo. Churn	343,016	June 1	327	84	35	1066
Doerfler, Frederick, Springfield, Ill. Brick-machine	337,137	Mar. 2	342	89	34	989
Doerflinger, Chris, assignor to Fahys Watch Case Company, Sag Harbor, N. Y. Watch-case spring	333,840	Jan. 5	471	128	34	87
Dohan, William J. (See Holland and Dohan.)						
Doherty, George A., Crescent Mills, Cal. Bridle-bit	349,088	Sept. 14	759	194	36	1189
Doherty, John, assignor to himself and T. Conroy, Lockport, N. Y. Jar-cover	347,095	Aug. 10	859	228	36	630
Doherty, Patrick W., Boston, Mass. Soil or drain pipe	336,476	Feb. 16	1904	522	34	808
Dohner, John P., Englewood, Ill. Window-ventilator	350,582	Oct. 12	677	185	37	130
Doig, William S. (See Smith and Doig.)						
Dolan, Edward J., Philadelphia, Pa. Can-making machine	353,737	Dec. 7	120	33, 44	37	1028
Dolan, Edward J., assignor to W. Hacker, trustee, Philadelphia, Pa. Device for forming and seaming tin-can bodies	345,284	July 13	676	170	36	128
Dolbear, Amos E., Somerville, Mass., assignor, by mesne assignments, to Dolbear Electric Telephone Company, of New Jersey. Mode of electric communication	350,299	Oct. 5	266	76	37	55
Dolbear, Amos E., Somerville, Mass., assignor, by mesne assignments, to Dolbear Electric Telephone Company, of New Jersey. Telephone-receiver	355,149	Dec. 28	2171	572	37	1432
Dolbear Electric Telephone Company. (See Dolbear, Amos E., assignor.)						
Dole, Joseph L. (See Vivon, Edward T., assignor.)						
Dolge, Alfred. (See Millet, John W., assignor.)						
Doll, August, Lena, Ill. Plane	334,943	Jan. 26	2013	536	34	394
Doll, August, Lena, Ill. Sleigh-knee	336,555	Feb. 23	2102	553	34	834
Dolph Company, A. M. (See Sherman, Frank P., assignor.)						
Dolphin, Matthew J. (See Hey, George W., assignor.)						
Dolton, George E., St. Louis, Mo. Portable adjustable head-rest	344,726	June 29	2754	714	35	1537
Dom, Alexander, Mount Healthy, Ohio. Temporary binder	344,036	June 22	1811	466	35	1357
Dombrowski, Fredrich, and J. Woltmann, St. Louis, Mo. Lasting-machine	337,752	Mar. 9	1164	302 303	34	1141
Domeier & Co. (See Roots, James, assignor.)						
Dominy, Cyrenius, Englewood, Ill. Automatic grain-weighing scale	353,353	Nov. 30	2271	606 607	37	915
Donal, Robert U., assignor of one-fourth to H. Stainton, Emmet, Ark. Well-boring machinery	340,562	Apr. 27	2099	541	35	397
Donaldson, John H., Gore, Ohio. Combination-tool	353,023	Nov. 23	1796	482	37	818
Donaldson, Joseph A., *et al.* (See Spenneberg, George J., assignor.)						
Donaldson, Walter H., San Francisco, Cal. Compound engine	333,507	Jan. 5	15	5, 6	34	6
Doncaster, Daniel, Mechanicsville, N. Y. Sandpapering-machine	355,066	Dec. 28	2052	539	37	1408
Donegan, William, Chicago, Ill. Boiler attachment	340,200	Apr. 20	1585	401	35	295
Donelson, Charles M., *et al.* (See Bunce, Lewis D., assignor.)						
Donkin, Edwin B., Bremondsey, county of Surrey, England. Valve for regulating the flow of gas in mains, &c	344,088	June 22	1891	485	35	1372
Donnally, Alfred H., Foxburg, Pa. Facing-tool	353,485	Nov 30	2465	659	37	952
Donnell, Edward P., Chicago, Ill. Perforating attachment for ruling-machines	335,570	Feb. 9	676	178	34	568
Donnell, Edward P., Chicago, Ill. Folding-machine	337,937	Mar. 16	1420	367	34	1194
Donnell, Edward P., Chicago, Ill. Paper-cutting machine	343,987	June 22	1739	447	35	345
Donnell, Edward P., and F. A. Pauckner, Chicago, Ill.; said Pauckner assignor to said Donnell. Wire-stitching machine	341,799	May 11	1138	301 302	35	727
Donnelly, Charles J., Philadelphia, Pa. Machine for making match-boxes	351,627	Oct. 26	2219	574	37	424
Donnelly, James R., New York, N. Y. Plateau	340,430	Apr. 20	1899	488	35	354
Donnelly, James R., New York, N. Y. Grinding and polishing machine	344,359	June 29	2269	583	35	1447
Donoghue, James, Cleveland, Ohio. Tool-handle	355,150	Dec. 28	2171	572	37	1432
Donohoe, John W., Frankfort, Ohio. Lifting-jack	349,698	Sept. 28	1581	410	36	1366
Donohue, George W. (See Higbee, Charles, assignor.)						
Donohue, James A. (See Stretcher, Howard, assignor.)						
Donohue, James S., assignor of one-half to W. O. Kline, Philadelphia, Pa. Crockery or earthenware	349,27[illegible]	Sept. 14	1004	256	36	1237
Donohue, Thomas H., Washington, D. C. Ventilating sewers	347,09[illegible]	Aug. 10	860	228	36	631
Donovan, George L., assignor to C. Rogers & Bros., Meriden, Conn. Cutting-nippers	344,641	June 29	2649	685	35	1519
Donovan, James F., Fall River, Mass. Stench-trap	333,841	Jan. 5	473	128	34	88
Donovan, John, Boston, Mass. Boot or shoe stretcher	355,006	Dec. 28	1967	518	37	1393
Donovan, John E., Cincinnati, Ohio. Sewing-machine table-frame and treadle	334,521	Jan. 19	1450	392	34	284
Donovan, John F., Lomira, Wis. Land-roller	346,370	July 27	2095	539	36	401
Dooley, Maurice J., Chicago, Ill. Argand burner for lamps	334,417	Jan. 19	1311	355	34	257
Dooley, Michael, North Adams, Mass. Watch-pouch	342,952	June 1	254	65	35	1052
Dooley, Samuel B., Beatrice, Nebr. Combined counter and show-case	334,356	Jan. 12	1234	331	34	236
Doolittle, Charles E., trustee. (See McCloud, Sidney, assignor.)						
Doolittle, George, Bridgeport, Conn., assignor to Peninsular Novelty Company, Grand Rapids, Mich. Staple-machine	351,628	Oct. 26	2222	574 575	37	424

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Doolittle, Henry B., Doolittle's Mills, Ind. Feather-renovator	355,151	Dec. 28	2172	553	37	1432
Doolittle, James B., Wallingford, Conn. Steam-generator	355,152	Dec. 28	2174	574	37	1432
Doolittle, Joseph R., Southington, Conn. Screw-driver	339,277	Apr. 6	233	58	35	43
Doolittle, Merritt E., assignor to Beedle & Kelly Company, Troy, Ohio. Corn-planter	337,313	Mar. 2	583	153 154	34	1033
Doolittle, Merritt E., assignor to Beedle & Kelly Company, Troy, Ohio. Corn-planter	340,999	May 4	30	8	35	511
Doolittle, Thomas B., Bridgeport, Conn. Telephone-circuit	335,436	Feb. 2	487	127	34	529
Doolittle, Thomas B., Bridgeport, Conn. System of telephonic communication	339,625	Apr. 13	778	192 193	35	143
Doolittle, Thomas B., Bridgeport, Conn. Switch-board and central-office apparatus	339,626	Apr. 13	785	193	35	145
Doolittle, Thomas B., Bridgeport, Conn. Combined annunciator and spring-jack	339,627	Apr. 13	788	193	35	145
Doolittle, William E., New Haven, Conn. Manufacture of matches	337,821	Mar. 16	1266	328	34	1166
Doolittle, William E., New Haven, Conn. Manufacture of matches	347,265	Aug. 10	1087	291	36	673
Doolittle, William E., West Haven, Conn. Machine for making matches	351,750	Nov. 2	29	8, 9	37	464
Dooly, John E., St. Louis, Mo. Gas-burner attachment for stoves	338,143	Mar. 16	1705	444	34	1247
Dootson, William. (See Lucas and Dootson.)						
Doran, Michael, Bergen, N. Y. Band-cutter and feeder for thrashing-machines	341,375	May 4	567	156 157	35	607
Dorflinger, William F., New York, N. Y. Bottling-machine	334,357	Jan. 12	1235	332	34	236
Doriot, Constant, Philadelphia, Pa. Electric-arc lamp	344,642	June 29	2650	685 686	35	1519
Doriot, Constant, Philadelphia, Pa. Electric motor	344,643	June 29	2652	686	35	1519
Dormitzer, Anna, New York, N. Y. Window-cleaning chair	335,215	Feb. 2	188	50	34	474
Dormitzer, Anna, New York, N. Y. Ornamental step-ladder	336,219	Feb. 16	1636	427	34	744
Dormitzer, Anna, New York, N. Y. Paint and brush bucket	342,431	May 25	2041	538	35	908
Dorr, Conrad A., and E. B. Hill, Brooklyn, N. Y. Hose-carriage	354,465	Dec. 14	1181	316	37	1229
Dorr, Conrod S., Wheeling, W. Va. Medicine-spoon	353,055	Nov. 23	1856	501	37	828
Dorsett, Daniel H., Chicago, Ill. Underground conductor	340,431	Apr. 20	1899	488 489	35	354
Dorsett, Daniel H., Chicago, Ill. Conduit for electric conductors	340,432	Apr. 20	1902	489	35	354
Dorsett, Daniel H., Chicago, Ill. Conduit for electric conductors	340,433	Apr. 20	1903	489	35	354
Dorsey, Albert G. P., Clarksburg, Ind. Clothes-line	336,705	Feb. 23	2317	606	34	873
Dorsey, Basil C., Portersville, Cal. Disk-seeder and cultivator	344,950	July 6	209	54	36	39
Dorsey, Frederick, Hagerstown, Md. Packing and preserving cornmeal, &c	343,163	June 8	567	143	35	1119
Dorward, William B., Marion, Ohio. Oil-cup slicate and other journals	337,822	Mar. 16	1266	328	34	1166
Dorwart, Benjamin K., assignor of one-fourth to J. E. Rote, Lancaster, Pa. Bottle-stopper	340,201	Apr. 20	1586	401	35	295
Dorwart, Benjamin K., Lancaster, Pa., assignor to himself and M. W. Michell, Scotch Plains, N. J. Bottle-stopper	354,106	Dec. 14	667	179	37	1136
Doscher, Berend, Charleston, S. C. Swinging paddle for vessels	354,506	Dec. 14	1243	335	37	1239
Dosh, Henry S., Baltimore, Md. Baker's pan or tray	340,492	Apr. 20	1994	512	35	371
Doten, Charles C., Plymouth, Mass. Nail	335,181	Feb. 2	135	34	34	465
Doty, Charles E., Rock Falls, Ill. Steel-wire brush	338,719	Mar. 30	2507	664	34	1404
Doty, Edwin. (See Raymond, Silas H., assignor.)						
Doty, James, Marion, Wis. Device for coupling and splicing railway-rails	333,842	Jan. 5	474	128	34	88
Doty, William H. H., Oakland, N. J. Printer's galley	346,809	Aug. 3	437	119	36	545
Doubleday, Harry M., New York, N. Y., assignor of three-fourths to J. S. Humbird, F. S. Marr, Harrisburg, Pa., and J. Lyman, Middlefield, Conn. System of electric lighting	335,060	Jan. 26	2181	579	34	423
Doubleday, Harry M., New York, N. Y., and J. Lyman, Middlefield, Conn., assignors of one-half to J. S. Humbird and F. S. Marr, Harrisburg, Pa. Electric-lamp post	350,046	Sept. 28	2064	533	36	1457
Doubleday, William E., New York, N. Y. Treating fur	350,455	Oct. 5	490	.....	37	94
Doubler, John W. H., Rockford, Ill. Chair	344,255	June 22	2119	541	35	1413
Dougan, Kennedy, Calwood, Mo. Flour-bolt	343,761	June 15	1451	362 363	35	1283
Dougan, William T., Salem, Mo. Grinding-mill	347,232	Aug. 10	1043	279	36	664
Dougherty, Edward D., Philadelphia, Pa. Automatic railway-signal	338,720	Mar. 30	2508	664	34	1404
Dougherty, Edward D., Philadelphia, Pa. Traction underground railway	341,892	May 18	1273	341	35	761
Dougherty, Edward D., Philadelphia, Pa. Device for turning curves in cable railways	348,725	Sept. 7	261	70	36	1096
Dougherty, Edward D., Philadelphia, Pa. Grip for cable railways	351,254	Oct. 19	1636	430	37	312
Dougherty, Edward D., Philadelphia, Pa. Grip for cable railways	351,901	Nov. 2	241	68	37	503
Dougherty, Joseph H., Wellington, Kans. Wire fence	352,232	Nov. 9	746	200	37	603
Dougherty, Tiberias, assignor of one-half to H. J. Bergman, Philadelphia, Pa. Cue-tip fastener	334,648	Jan. 19	1638	437	34	317
Dougherty, Tiberias, Philadelphia, assignor of two-thirds to H. Bodey, Norristown, Pa. Kindergarten apparatus for teaching spelling	342,737	May 25	2483	660	35	990
Dougherty, Tiberias, assignor of one-half to H. J. Bergmann, Philadelphia, Pa. Insect-screen	351,502	Oct. 26	2031	528	37	389
Dougherty, William, Philadelphia, Pa. Faucet	352,048	Nov. 2	459	125	37	545
Dougherty, William, and J. P. Feeley, Chester, Pa. Steam-boiler	337,138	Mar. 2	343	89	34	989
Douglas, Archibald D. B., Seafield, Ardrossan, county of Ayr, Scotland. Link-motion for working valves	336,844	Feb. 23	2498	658	34	907
Douglas Axe Manufacturing Company. (See Bowers, John W., assignor.)						
Douglas Axe Manufacturing Company. (See Loomer, Henry M., assignor.)						
Douglas, Edward J., assignor to A. Rudgear, Melbourne, Victoria, Australia, S. Bernstein, and E. Kuhne, San Francisco, Cal. Apparatus for heating water	345,416	July 13	860	215	36	160
Douglas, James, Cornwall-on-the-Hudson, N. Y. Detachable milk-can refrigerator	346,647	Aug. 3	253	69	36	509
Douglas, Newton J., Waucoma, Iowa. Gate	354,107	Dec. 14	669	180	37	1136
Douglas, Richard R., New York, N. Y. Projectile	336,556	Feb. 23	2102	553	34	834
Douglas, William E., Columbia City, Ind. Combined screw holder and driver	351,751	Nov. 2	32	9	37	465
Douglas, William H., Washington, D. C. Side and deck light for vessels	354,013	Dec. 7	529	144	37	1102
Douglas, William W., trustee. (See Cruickshank, George M., assignor.)						
Douglass, Addison H., Memphis, Tenn. Metallic wrapping for cotton, &c	335,216	Feb. 2	191	50	34	474
Douglass, Ann. (See Douglass, John, assignor.)						
Douglass, James R., Siba, Ark. Churn-power	341,893	May 18	1274	341	35	762
Douglass, John, Brooklyn, N. Y. Harness-saddle	339,628	Apr. 13	790	194	35	145
Douglass, John, Brooklyn, N. Y. Guard and trace attachment for harness-hames	339,629	Apr. 13	791	194	35	145
Douglass, John, assignor to A. Douglass, Brooklyn, N. Y. Bridle-bit	345,955	July 20	1655	427	36	310
Douglass, Joseph H., *et al.* (See Austin, Aronamous B., assignor.)						
Douglass, Samuel W., New York, N. Y. Apparatus for the formation of deep wells	339,630	Apr. 13	792	194 195	35	146
Douglass, Samuel W., New York, N. Y. Point for deep wells	340,035	Apr. 13	1343	336	35	245
Dougrey, Howard M. (See Fleming, James, assignor.)						
Doutney, George, Brooklyn, N. Y. Automatic safety gas-burner	334,572	Jan. 19	1531	409	34	297
Dow, Charles B., Manchester, Dak. Ter. Separator-shoe for thrashing-machines	345,285	July 13	678	171	36	128

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Dow, Edward E. (See Clark, David O., assignor.)						
Dow, George B. N., assignor, by mesne assignments, to Granite State Plating Company, Manchester, N. H. Check-rein hook	348,194	Aug. 31	2455	659	36	948
Dow, George E., San Francisco, Cal. Air-compressor	341,099	May 4	169	51, 52	35	536
Dow, Josiah, Lowell, Mass. Governor for motors	334,112	Jan. 12	859	236	34	167
Dow, Orrin C., Orange, Mass. Mainspring-winder	335,023	Jan. 26	2125	566	34	414
Dowd, Daniel L., assignor to himself and W. E. Forrest, New York, N. Y. Exercising-machine	345,286	July 13	679	171	36	128
Dowden, Charles H., Newark, N. J. Annunciator	351,099	Oct. 19	1431	375	37	274
Dowden, Charles H., Newark, N. J. Burglar-alarm	352,861	Nov. 16	1562	421	37	765
Dowell, Reuben H., Waverly, Nebr. Punching-machine	337,139	Mar. 2	345	89	34	989
Dower, James A., assignor of one-half to G. P. Castle, Honolulu, Hawaii. Machine for bending, shaping, and setting the timbers or frames of boats or small vessels	333,615	Jan. 5	154	42	34	31
Dowkontt, George D., New York, N. Y. Individual condiment-holder	352,400	Nov. 9	962	258	37	646
Dowling, North, Philadelphia, Pa. Telephone-receiver	333,932	Jan. 5	597	163	34	112
Dowling, North, Philadelphia, Pa. Telephone-transmitter	335,510	Feb. 2	583	152, 153	34	545
Dowling, North, Philadelphia, Pa. Telephone-transmitter	335,511	Feb. 2	585	153	34	545
Dowling, North, Philadelphia, Pa. Diaphragm for telephone-receivers	337,753	Mar. 9	1166	303	34	1141
Dowling, Patrick. (See Kimball, Charles M., assignor.)						
Dowling, Robert H., assignor of one-half to C. H. Follett, Newark, Ohio. Car-coupling	339,156	Apr. 6	54	17	35	13
Dowling, Thomas W., Detroit, Mich. Window-screen	346,810	Aug. 3	438	120	36	545
Down, Frederick. (See Bishop and Down.)						
Downing, J. J., *et al.* (See Smith, George W., assignor.)						
Downing, J. J., *et al.* (See Vankirk, Arthur C., assignor.)						
Downing, John S., *et al.* (See James, Winfield E., assignor.)						
Downing, Wellington. (See Brown, Richard T., assignor.)						
Doyle, Austin, *et al.* (See Firman, Leroy B., assignor.)						
Doyle, John, Hoboken, N. J., assignor to himself and C. C. Dusenbury, New York, N. Y. Electric motor	343,444	June 8	1000	249	35	1195
Dozier, James C., Jr., Louisville, Ky. Ventilated barrel	340,493	Apr. 20	1995	512	35	371
Dragoo, Julius M., Fairfield, Nebr. Receptacle for pool-balls	351,752	Nov. 2	33	9	37	465
Drainage Construction Company. (See Waring, George E., Jr., assignor.)						
Drake, Charles C., Trenton, N. J. Telegraph and telephone protector	336,040	Feb. 9	1341	355	34	687
Drake, Edwin S., Augusta, Me. Machine for grinding molding-cutters	353,415	Nov. 30	2365	630	37	933
Drake, John I., Providence, R. I. Electric meter	335,687	Feb. 9	838	222	34	597
Drake, Mahlon S. (See Wood and Drake.)						
Drake, Theodore. (See Bolton and Drake.)						
Drake, Thomas, Huddersfield, England. Steam-generator	347,266	Aug. 10	1088	291	36	673
Drake, Thomas E., *et al.* (See Smith, Emery P., assignor.)						
Drake, Walter D., Santa Fé, Mo. Breast strap hook	343,734	Jan. 5	330	90	34	62
Drake, William H., *et al.* (See Taylor, Samuel T., assignor.)						
Drake, William P., Brown County, Ohio. Pitman eye and connection	334,418	Jan. 19	1313	356	34	258
Drakenfeld, Edward, New York, N. Y. Sample-card	343,704	June 15	1364	341	35	1267
Draper, James O. (See Barden, John S., assignor.)						
Draper, John F., Patoka, Ill. Bedstead	353,125	Nov. 23	1946	521	37	847
Draper Manufacturing Company. (See Black and Pfister, assignors.)						
Draper, Oscar M., North Attleborough, Mass. Ornamental chain	353,543	Nov. 30	2557	682	37	969
Draper & Sons, George. (See Allen, George H., assignor.)						
Draper & Sons, George. (See Blake, Eben W., assignor.)						
Draper & Sons, George. (See Bradley, Edward E., assignor.)						
Draper & Sons, George. (See Carroll, Edgar J., assignor.)						
Draper & Sons, George. (See Carroll, William T., assignor.)						
Draper & Sons, George. (See Greene and Young, assignors.)						
Draper & Sons, George. (See Knapp, Charles H., assignor.)						
Draper & Sons, George. (See McPherson, John B., assignor.)						
Draper & Sons, George. (See Montague, Francis D., assignor.)						
Draper & Sons, George. (See Richardson, John S., assignor.)						
Draper & Sons, George. (See Sherman, Mortimer, assignor.)						
Draper & Sons, George. (See Wilmott, Louis, assignor.)						
Draver, Emil R., Stillwater, Minn. Centrifugal reel. (Reissue)	10,696	Mar. 9	1234	320, 321	34	1154
Drawbaugh, Daniel, Eberly's Mill, Pa. Telephone-transmitter	354,542	Dec. 21	1302	346	37	1257
Drawbaugh, Daniel, Eberly's Mill, Pa., assignor to Peoples Telephone Company. Telephone-transmitter	339,745	Apr. 13	954	234, 235	35	174
Drawbaugh, Daniel, Eberly's Mill, Pa., assignor to Peoples Telephone Company, New York, N. Y. Induction-coil	344,818	July 6	19	5	36	6
Drawbaugh, Daniel, Eberly's Mill, Pa., assignor to People's Telephone Company, of New York. Telephone-transmitter	354,541	Dec. 21	1300	346	37	1257
Drayer, Adam U., and V. C. Hatfield, Middletown, Ohio. Machine for casing tobacco	333,933	Jan. 5	598	163	34	112
Drayton, Benjamin A., New York, N. Y. Bird-cage	334,573	Jan. 19	1532	409, 410	34	297
Drebert, Henry A., West Point, Nebr. Seed-planter	343,571	June 15	1184	297, 298	35	1235
Drescher, Luis, New York, N. Y. Galvanic-battery cell	350,621	Oct. 12	741	202	37	143
Drescher, Luis, New York, N. Y. Medical induction-coil	352,084	Nov. 2	511	137	37	555
Dress, Charles G., Buffalo, N. Y. Puzzle	345,287	July 13	681	171, 172	36	129
Dressel, George C., New York, N. Y. Signal-lantern	348,623	Sept. 7	126	35	36	1070
Dressel, George C., New York, N. Y. Lantern	354,629	Dec. 21	1440	382	37	1281
Dresser, Samuel P., Pleasant Mount, Mo. Wood-sawing machine	334,574	Jan. 19	1533	410	34	297
Dresser, Solomon R. (See Franklin, Benjamin, assignor.)						
Dresser, Solomon R., Bradford, Pa. Pipe-coupling	350,421	Oct. 5	421	121	37	83
Drew, Charles, St. Louis, Mo. Quarter-boot for horses	339,050	Mar. 30	2986	790	34	1489
Drew, Charles E., assignor of one-half to G. H. Baker and A. A. Pevey, Woonsocket, R. I. Knitting-machine	342,339	May 25	1899	502, 503	35	884
Drew, George W., Butte City, Mont. Ter. Snap-hook	346,811	Aug. 3	438	120	36	545
Drew, John. (See Major, Charles G., assignor.)						
Drew, Walter J. (See Bissell and Drew.)						
Drew, Walter J., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet-sweeper	343,572	June 15	1185	298	35	1235
Drew, Walter J., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet-sweeper	344,089	June 22	1891	485	35	1372

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Drew, Walter J., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Car. pet-sweeper	353,294	Nov. 30	2190	586 587	37	901
Dreyfus, Bernhard, New York, N. Y. Chenille pendant	344,570	June 29	2555	661	35	1500
Dreyfus, Jules R. (See Graves and Dreyfus.)						
Dreyfus, Leon, New Orleans, La. Pin-tongue for breastpins	347,289	Aug. 10	1126	301	36	680
Dreyfus, Leon, New Orleans, La. Ear-wire for ear-rings	355,007	Dec. 28	1968	518	37	1393
Drill, Charles, St. Louis, Mo. Street-sweeping machine	338,721	Mar. 30	2510	664 665	34	1404
Drinkwater, Oakes A., Boston, Mass. Watch-case hinge	344,727	June 29	2756	714	35	1538
Driscoll, Con, Anaconda, Mont. Ter. Retainer for nuts and other portions of machinery	350,725	Oct. 12	883	236	37	168
Driscoll, M'Rendree, Louisville, Ky. Door-bolt	344,174	June 22	3008	515	35	1393
Driskell, Madison M., assignor of one-half to S. A. and S. C. Haseltine, Springfield, Mo. Drag-saw	337,754	Mar. 9	1166	304	34	1142
Driver, Charles H., assignor of one-half to M. M. Bush, Towns, Ga. Jack-carrier	345,490	July 13	964	244	36	179
Driver, Frank. (See Driver, George and F.)						
Driver, George and F., Toledo, Ohio. Derrick	348,726	Sept. 7	262	70	36	1096
Drodzewski, Julius R., assignor of two-thirds to H. C. Shannon and J. M. Ormsbee, Erie, Pa. Steam-pipe connection between railway-cars	348,664	Sept. 7	182	49	36	1079
Dromgold, Walker A. (See Hench and Dromgold.)						
Drorak, Joseph, Elizabeth, N. J. Hair-crimper	339,087	Mar. 30	3039	802	34	1497
Drosten, Frederick W., St. Louis, Mo. Grating-machine	351,100	Oct. 19	1432	376	37	274
Drown, Otis E., Saylesville, R. I. Machine for cutting double piled fabrics	350,726	Oct. 12	884	237	37	168
Drucker, Nathan, Cincinnati, Ohio. Caster	344,728	June 29	2757	714	35	1538
Drummey, Michael P., Grand Junction, Colo. Auxiliary air-accumulator	344,571	June 29	2555	661	35	1500
Drummond, Ernest B., assignor of one-half to J. T. Drummond, Massie's Mills, Va. Convertible heel and sole shave	351,428	Oct. 26	1915	498	37	367
Drummond, Ernest B. and J. T., Massie's Mills, Va. Sole and heel shaving implement	351,429	Oct. 26	1916	499	37	367
Drummond, John T. (See Drummond, Ernest B. and J. T.)						
Drummond, William W., Louisville, Ky. Sand-molding machine	354,108	Dec. 14	670	180	37	1137
Dryden, William T., Memphis, Tenn. Fare-box	344,729	June 29	2759	714 715	35	1538
Dryer, Bernhard A., New York, N. Y. Automatic apparatus for dry disinfecting materials	333,934	Jan. 5	599	164	34	112
Dryfoos & Co., L. (See Hildt, August, assignor.)						
Dryfoos, Louis, New York, N. Y. Combined skirt and bustle	338,634	Mar. 23	2372	624	34	1374
Drysdale, John, *et al.* (See Salomo, Hugo, assignor.)						
Du Bois, Frank G. (See Brittain, John A., assignor.)						
Du Bois, Frank G. (See Hawley, William H., assignor.)						
Du Bois, Frederick N., New York, N. Y., assignor to Du Bois Manufacturing Company. Device for making plumbers' lead traps	344,090	June 22	1893	485	35	1373
Du Bois, Joseph, Waverly, N. Y. Fence-post-setting tool	353,209	Nov. 23	2074	554	37	872
Du Bois, Josiah S., Camden, N. J. Underground conduit	354,892	Dec. 28	1809	478	37	1364
Du Bois Manufacturing Company. (See Du Bois, Frederick N., assignor.)						
Du Pont, Alfred V., Louisville, Ky., assignor to Johnson Steel Street Rail Company, Johnstown, Pa. Turn-table guide	345,288	July 13	682	172	36	129
Du Pont de Nemours & Co., E. J. (See Du Pont, Eugene, assignor.)						
Du Pont, Eugene, Wilmington, Del. Explosive compound	352,611	Nov. 16	1230	.....	37	703
Du Pont, Eugene, assignor to E. J. Du Pont de Nemours & Co., Wilmington, Del. Gunpowder-press	350,048	Sept. 28	2067	534	36	1457
Du Shane, James, South Bend, Ind. School-slate	347,696	Aug. 17	1725	460	36	800
Du Shane, James, South Bend, Ind. Displaying device for primary scholars	351,694	Oct. 26	2307	599	37	442
Du Souchet, Osman, Warsaw, Ill. Carpet-stretcher	341,411	May 4	616	168	35	616
Dubber, John F., Brooklyn, N. Y. Jeweler's box	335,746	Feb. 9	932	245	34	614
Dubé, Louis, assignor of one-half to A. F. La Rose, Albany, N. Y. Car-brake	354,891	Dec. 28	1807	478	37	1364
Duboc, Jules, Lisieux, Calvados, France. Self-acting apparatus for preventing railway accidents	343,988	June 22	1739	448	35	1346
Duboce, Augustin, San Francisco, Cal. Advertising optical apparatus	347,926	Aug. 24	2063	547 548	36	870
Dubois, B. H., *et al.* (See Tuthill, Daniel S., assignor.)						
Dubois, J. J. B., *et al.* (See Tuthill, Daniel S., assignor.)						
Dubreuil, George A. (See Gornall, Richard, assignor.)						
Duchemin, William, assignor to Addax Basting Machine Company, Boston, Mass. Basting-machine	339,536	Apr. 6	623	152	35	113
Ducker, William M. (See Abbott, Phillips, assignor.)						
Ducker, William M. (See Guernsey, Samuel B., assignor.)						
Dudderar, Daniel W., Taylorsville, Md. Attachment for vehicle-thills	349,930	Sept. 28	1906	494	36	1427
Dudgeon, Addelbert, Bradenville, Pa. Window-fastening device	336,302	Feb. 16	1763	461	34	765
Dudgeon, Richard. (See Weeks and Traver, assignors.)						
Dudley, Charles, Stockton, Cal. Trace-hook	349,632	Sept. 21	1491	386	36	1342
Dudley, Charles B., Altoona, Pa. Apparatus for carbureting air or gas	342,863	June 1	123	31	35	1029
Dudley, D. Willard, Montpelier, assignor of one-half to W. V. Peck, Calais, Vt. Fertilizer	353,210	Nov. 23	2075	.....	37	872
Dudley, Daniel, Bangor, Me. Moccasin-shoe	353,295	Nov. 30	2194	587	37	901
Dudley, John P., San José, Cal. Horseshoe	343,115	June 1	493	125	35	1095
Dudley, John W., Portland, Oreg. Piston-packing	353,211	Nov. 23	2075	554	37	872
Dudley, Myrick, Lynn, Mass., assignor of two-thirds to I. B. Hill, Sandwich, N. H. Automatic street-railway switch	343,366	June 8	886	223	35	1176
Dudley, Walter J., Everett, Mass. Electric signaling apparatus	342,340	May 25	1901	503	35	884
Dudley, William L., Covington, Ky. Removing fiber from cotton-seed	354,109	Dec. 14	671	180	37	1137
Dudley, William L., Covington, Ky., and N. W. Perry, Cincinnati, Ohio. Removing fiber from cotton-seed	344,951	July 6	210	54	36	39
Dudley, William L., Covington, Ky., assignor of one-half to J. P. Witherow, Pittsburg, Pa. Lining for converters and furnaces	350,919	Oct. 19	1157	.....	37	225
Dudley, William L., Covington, Ky., assignor of one-half to J. P. Witherow, Pittsburg, Pa. Lining for converters and furnaces	350,920	Oct. 19	1158	.....	37	225
Dudley, William L., Covington, Ky., assignor of one-half to J. P. Witherow, Pittsburg, Pa. Lining for converters and furnaces	350,921	Oct. 19	1159	.....	37	225
Dudley, William L., Covington, Ky., assignor of one-half to J. P. Witherow, Pittsburg, Pa. Lining for converters and furnaces	350,922	Oct. 19	1159	.....	37	225
Duel, Daniel. (See Keys, Frank W., assignor.)						
Duff, John F., Murphysborough, Ill. Car-coupling	352,526	Nov. 16	1115	302	37	682
Duff, John L., Sago, Ohio. Pipe-coupling	349,146	Sept. 14	839	214	36	1205
Duff, Samuel, Steubenville, Ohio. Rolling-mill	354,110	Dec. 14	672	181	37	1137
Duff, Samuel K., Allegheny, and F. S. Wood, Pittsburg, Pa. Railway-switch	342,687	May 25	2398	636	35	974
Duff, William H., St. Louis, Mo. Umbrella case or bin	346,648	Aug. 3	254	69	36	510

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Duffee, John S., Richmond, Ind. Weather-strip	344,773	June 29	2817	730	35	1549
Duffey, James H., St. Paul, Minn. Steam-engine relief-valve	333,616	Jan. 5	156	42	34	31
Duffey, John B. (See Lehmann and Nye, assignors.)						
Duffield, William, London, Ontario, Canada. Lamp	340,704	Apr. 27	2299	605	35	929
Duffield, William, London, Ontario, Canada. Lamp	342,826	June 1	75	18, 19	35	1020
Duffy, James A., and A. Ball, Boylston, assignors of one-third to P. Ball, Worcester, Mass. Weaver's combined comb and reed-hook	341,562	May 11	821	219	35	665
Duffy, Terrence, San Francisco, Cal. Signal-buoy	352,527	Nov. 16	1116	302	37	682
Duffy, Terrence, San Francisco, Cal. Motor for vessels	353,296	Nov. 30	2195	587	37	901
Duffy, Thomas W., Boston, Mass., assignor to Wainwright Manufacturing Company, Portland, Me. Feed-water heater	350,300	Oct. 5	267	77	37	55
Duffy, Thomas W., Medford, Mass., assignor to Wainwright Manufacturing Company, Portland, Me. Expansion-joint	350,422	Oct. 5	422	121	37	83
Duffy, Walter B. (See Feely, Lawrence, assignor.)						
Dugan, Robert C., Millersburg, Ohio. Water-elevator	335,061	Jan. 26	2183	580	34	423
Dugar, Delano H., Cedartown, Ga. Cut-off valve	335,995	Feb. 9	1289	340	34	676
Dugar, Delano H., Cedartown, Ga. Valve-gear	345,372	July 13	794	200	36	148
Dugaw, James, assignor of two-thirds to F. E. Coleman and G. Reynold, Inkster, Mich. Revolving scraper	350,874	Oct. 12	1095	292	37	207
Duhamel, Léon, Paris, France. Apparatus for starting and propelling wheeled vehicles	335,062	Jan. 26	2184	580	34	424
Duhring, Henry A., *et al.* (See Belisle, Robert S., assignor.)						
Duisberg, Carl, Elberfeld, Germany. Blue coloring-matter from nitrophenetol	342,432	May 25	2042	....	35	908
Duke, Elihu W., Jackson, Ga. Cotton-planter	350,233	Oct. 5	189	54	37	39
Duke, James B., Durham, N. C. Paper box	349,786	Sept. 28	1726	445	36	1391
Dukehart, Thomas M. (See Reilly and King, assignors.)						
Dukes, A. N., receiver. (See Hull, Nicholas A., assignor.)						
Dulany, John T., near Belton, Tex. Cotton-packer	348,490	Aug. 31	2865	770	36	1027
Dulin, Charles E., Philadelphia, Pa. Centrifugal hydro-extractor	346,030	July 20	1765	454 455	36	328
Dull, Daniel, New York, N. Y. Drilling-machine	344,256	June 22	2121	542	35	1414
Duls, Jacob, Charlotte, N. C. Combined bag and twine holder	334,358	Jan. 12	1236	332	34	236
Duls, Jacob, Charlotte, N. C. Gate-latch	344,952	July 6	212	54	36	39
Dumaresq, Phillip K. (See Litchfield, Isaac W., assignor.)						
Dumke, Charles, Portland, Wis. Horse marsh-shoe	338,166	Mar. 16	1735	453	34	1253
Dumler, Andrew P. (See Fraumann, John H., assignor.)						
Dummer, Edward, Boston, Mass. Spinning-spindle and bearing therefor	336,903	Mar. 2	30	8	34	932
Dummer, Paul E., New York, and P. E. Malmström, Brooklyn, N. Y. Faucet	341,410	May 4	615	168	35	616
Dumontier, Alexander C., and A. Plourde, assignors of three-fifths to H. W. Harding, A. Dumontier, and W. M. Dwight, Detroit, Mich. Chip-breaker	336,845	Feb. 23	2499	658	34	907
Dumontier, Arthur, *et al.* (See Dumontier and Plourde, assignors.)						
Dumoulin, Adrien J. A., Paris, France, assignor to Compagnie de Fives Lille. Continuous apparatus operated by centrifugal power	338,393	Mar. 23	2055	539	34	1318
Dunaway, Elijah F., Covington, Ky. Fire-place heater	351,025	Oct. 19	1336	351	37	257
Dunbar, Daniel. (See Feldmann and Dunbar.)						
Dunbar, John H. (See Reid and Dunbar.)						
Dunbar, John H., assignor to Clement & Dunbar, Philadelphia, Pa. Ice-crusher	342,289	May 18	1813	480	35	860
Dunbar, Leander L., Lynn Grove, Ind. Two-wheeled vehicle	339,746	Apr. 13	956	235	35	174
Duncan, Charles I. (See Richmond, Henry T., assignor.)						
Duncan, George B., and J. Bailie, Cincinnati, Ohio; said Duncan assignor to said Bailie. Reel-oven	347,475	Aug. 17	1402	373	36	739
Duncan, James E., Dunbar, assignor of one-half to A. Baring-Gould, Lisbon, Dak. Ter. Reversing mechanism	352,862	Nov. 16	1563	422	37	766
Duncan, John M., *et al.* (See Gowans, James A., assignor.)						
Duncan & Johnston. (See Apoll, Jacob, assignor.)						
Duncan, Joseph M., Silver Springs, N. Y. Salt-graining apparatus	349,931	Sept. 28	1907	494 495	36	1427
Duncan, Robert D., assignor of one-half to A. Wallace, Omaha, Nebr. Strainer for catch-basins	333,935	Jan. 5	600	164	34	112
Duncan, Robert D., and A. Wallace, Omaha, Nebr. Grease-trap	346,432	July 27	2327	599	36	444
Duncan & Sons, George, *et al.* (See Miller, John E., assignor.)						
Duncan & Sons, George, *et al.* (See Smith, Henry J., assignor.)						
Dundas, Henry. (See Stone and Dundas.)						
Dundon, Patrick F., San Francisco, Cal. Steam-boiler. (Reissue)	10,758	Aug. 17	1818	484	36	816
Dungan, Thomas B., assignor of one-half to J. P. Detwiler, Philadelphia, Pa. Covering for top rolls of spinning-machines	352,911	Nov. 23	1638	440	37	790
Dungan, William H., Rock Lane, Ind. Fence	352,454	Nov. 9	1028	277	37	658
Dunham, Bradford, Baltimore, Md. Locomotive-brake	346,271	July 27	2096	539	36	402
Dunham, Edwin L., Quincy, Mich. Door-hanger	347,694	Aug. 17	1723	460	36	799
Dunham, Fred J. (See Brambel, Grant, assignor.)						
Dunham, Henry, Abington, Mass. Boot or shoe nailing machine	353,544	Nov. 30	2558	682 683	37	969
Dunham, Joseph W., Englewood, F. P. and G. W. Kisinger, Danville, Ill. Dumping-wagon	340,494	Apr. 20	1995	513	35	371
Dunham, Kate, Holloway, Mich. Corset	334,359	Jan. 12	1237	332	34	237
Dunham, Ralph C., New Britain, Conn. Artificial leg	336,904	Mar. 2	32	8	34	933
Dunkel, Wilber R., Macon, Ill. Grain weighing and registering apparatus	346,272	July 27	2097	540	36	402
Dunkerley, William H., Paterson, N. J. Reeling-machine	353,297	Nov. 30	2196	588	37	902
Dunkin, James, Bridgeport, W. Va. Planter	346,901	Aug. 10	579	155	36	580
Dunlap, James, Boston, Mass. Machine for shrinking hat-bodies and other articles	344,257	June 22	2122	542	35	1414
Dunlap, Robert. (See Keator, Charles E., assignor.)						
Dunlap, William R., Cincinnati, Ohio. Centrifugal reel	341,134	May 4	227	68	35	547
Dunn, Charles J., and G. F. Cain, Venice, Ill.; said Dunn assignor to said Cain. Shoe	343,553	June 15	1186	298	35	1236
Dunn, Edwin B., West Carrollton, Ohio. Pencil-sharpener	352,455	Nov. 9	1031	277	37	659
Dunn, Henry F., Eagle Lake, Tex. Clevis	334,760	Jan. 26	1790	476	34	353
Dunn, Isaac, *et al.* (See Dewey and Short, assignors.)						
Dunn, J. Paris, New York, N. Y. Apparatus for printing tickets	334,697	Jan. 19	1701	454	34	328
Dunn, J. Paris, New York, N. Y. Machine for printing and registering tickets	345,623	July 13	1169	300 301 302	36	217
Dunn, J. Paris, New York, N. Y. Machine for printing, dating, and registering tickets	345,624	July 13	1175	302 303	36	218
Dunn, J. Paris, New York, N. Y. Fire-escape ladder	350,047	Sept. 28	2065	534	36	1467
Dunn, John M., and W. E. Sidwell, Norwalk, Ohio. Steam-boiler	342,738	May 25	2486	660	35	990
Dunn, Leonard F., Community, N. Y. Animal-trap	335,512	Feb. 2	586	153	34	545

Alphabetical list of patentees—Continued.

Name, residence, and invention	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Dunn, Patrick C., Buffalo, N. Y. Railway frog-crossing	348,516	Aug. 31	2907	781	36	1035
Dunn, Rufus P., Grand Crossing, assignor to G. L. Thompson, Chicago, Ill. Curling-iron	344,774	June 29	2818	730	35	1549
Dunn, Ward C., Chicago, Ill. Car-heater	343,445	June 8	1001	249 250	35	1195
Dunn, William, and D. A. Terry, Galton, Ill. Car-coupling	351,315	Oct. 19	1722	453	37	327
Dunn, William W., Peoria, Ill. Wheel	341,462	May 11	692	185	35	640
Dunn, Winfield S., Washington, D. C. Fastening for carriage-curtains	355,008	Dec. 28	1969	518	37	1393
Dunne, Daniel, assignor to E. A. Wall, Salt Lake City, Utah Ter. Bed for crushing-rolls	344,258	June 22	2123	542	35	1414
Dunne, John J., Philadelphia, Pa. Making phosphates	345,625	July 13	1182	.....	36	219
Dunne, Martin. (See Miles and Dunne.)						
Dunning, Elisha, Bluffton, assignor of one-half to S. Davies, Muskegon, Mich. Saw-swaging machine	346,844	Aug. 3	486	134 135	36	555
Dunning, Frank A., Blue Island, Ill. Seal-lock	337,938	Mar. 16	1421	367 368	34	1194
Dunning, William B., Geneva, N. Y. Steam-boiler	340,941	Apr. 27	2614	689	35	487
Dunning, William B., Geneva, N. Y. Magazine steam-boiler	349,699	Sept. 28	1581	410	36	1366
Duntley, Silas Q. (See Wheeler and Duntley.)						
Duplain, Francis P., assignor to Western Electric Company, Chicago, Ill. Machine for winding lead tape upon telegraph-cables	346,433	July 27	2328	599	36	444
Duplex Printing Press Company. (See Cox, Joseph L., assignor.)						
Duprat, Sosthène. (See Lamal and Duprat.)						
Dupuis, Augustus J., Detroit, Mich. Steam pile-driver	341,837	May 11	1191	318 319	35	739
Dupuis, Eugène J. A., New York, N. Y. Stop-watch	343,149	June 1	542	137	35	1105
Durançon, Pierre, Lyons, France. Mechanism for opening and separating threads of hanks or skeins	334,113	Jan. 12	862	237	34	167
Durand, Albert A., New York, N. Y. Cow-milker	335,182	Feb. 2	135	34, 35	34	465
Durand, David L., assignor to Housatonic Brass Corporation, Derby, Conn. Safety-pin	352,681	Nov. 16	1334	360	37	722
Durand, Jean B., St. Chamond, France, assignor to E. and J. Wright, C. S. Howe, G. T. Morey, Philadelphia, Pa., and H. Filson, New York, N. Y. Retainer for umbrellas	336,846	Feb. 23	2500	659	34	907
Durand, Thomas F., New York, N. Y. Clothes-line	349,147	Sept. 14	840	214	36	1205
Durando, Francis P., West Chester, N. Y. Holder for papers and similar articles	346,845	Aug. 3	488	135	36	556
Durell, Mary S., and A. L. Gebhard, Schoharie, N. Y. Steam-radiator attachment	347,476	Aug. 17	1403	374	36	739
Durfee, Elisha B., Lincoln, Nebr. Rail-scraper and snow-plow	353,738	Dec. 7	122	34	37	1029
Durgin, William F., Ipswich, Mass. Mechanism for clamping yarns to the spindles on spinning jacks or mules in the operation of doffing	342,787	June 1	19	6	35	1009
Durham, Albert, South Evanston, Ill. Mechanical game	352,971	Nov. 23	1721	462	37	804
Durham, Daniel P., Withamsville, Ohio. Nail	346,148	July 27	1923	496	36	369
Durham, Frederick W., Station Road, Barnet, county of Herts, England. Hat-lining	349,633	Sept. 21	1492	387	36	1342
Durham, Frederick W., and J. D. Churchill, London, England. Apparatus for effecting intermittent action of fog and other signals	336 041	Feb. 9	1343	355	34	687
Durham, Robert J. (See Strother, William S., assignor.)						
Durling, Jacob C., Marine City, Mich. Wire hoop	336,706	Feb. 23	2318	607	34	873
Durr, Sebastian. (See Owens, James, assignor.)						
Durrans, Thomas, London, England. Connecting water apparatus with soil-pipes	335,513	Feb. 2	587	153	34	545
Duryea, Charles E., St. Louis, Mo. Bicycle	333,936	Jan. 5	601	164	34	113
Duryea, Charles E., assignor to C. H. Stone, St. Louis, Mo. Tricycle	339,537	Apr. 6	625	152	35	113
Duryea, Charles E., assignor of one-fourth to H. S. Apple, Peoria, Ill. Shoveling-board for wagons	343,517	June 8	1094	274	35	1212
Duryea, Charles E., Peoria, Ill., assignor of one-third to G. Glover, St. Louis, Mo. Shoveling-board for wagons	344,259	June 22	2124	543	35	1414
Duryea, Charles E., assignor of two-thirds to G. H. Ten Brock, St. Louis, and C. D. Moody, Webster Groves, Mo. Bicycle	350,583	Oct. 12	678	185	37	130
Duryea, Edgar E., Glen Cove, N. Y. Manufacturing starch	345,417	July 13	862	215	36	161
Duryea, Edgar E., Glen Cove, N. Y. Apparatus for liquefying starch upon starch runs or planes	345,418	July 13	864	216	36	161
Duryea, Wright, Brooklyn, N. Y. Treating and recovering the glutinous and fine nitrogenous matter resulting from the manufacture of starch	340,705	Apr. 27	2299	.....	35	430
Duryee, Albertus R., assignor of one-half to J. W. Wheeler, Washington, D. C. Combined lock and hasp	347,695	Aug. 17	1724	460	36	800
Duschanek, Karl, Freiburg, Germany. Calculating-machine	334,419	Jan. 19	1314	356 357	34	258
Dusenbury, C. Coles. (See Doyle, John, assignor.)						
Dushane, James. (See Case and Dushane.)						
Dustin, Harmon. (See Mayfield, Washington B., assignor.)						
Dustin, Warren P., *et al.* (See Rowland, Alexander M., assignor.)						
Duthie, George H., assignor of one-half to W. W. Barcus, Muskegon, Mich. Steam-valve	346,434	July 27	2328	599	36	444
Duthie, George H., assignor of one-half to W. W. Barcus, Muskegon, Mich. Steam-valve	346,435	July 27	2329	600	36	444
Duthie, John P., Ree Heights, Dak. Ter. Hame-fastener	344,360	June 29	2271	584	35	1448
Dutoit, Fritz G. (See Burkart, August, assignor.)						
Dutrisac, Moses, Muskegon, Mich. Drive-chain	347,697	Aug. 17	1726	460	36	800
Dutton, Harry. (See Davis, Abbott A., assignor.)						
Dutton, Rufus, Yonkers, assignor to Mower Knife Grinder Company, New York, N. Y. Machine for grinding mowing-machine knives	342,290	May 18	1814	480 481	35	860
Dutton, William H. (See Hardman and Dutton.)						
Duval, Stephen C., New York, N. Y. Graphic negative-film for photographic printing	345,220	July 6	576	147	36	105
Duvall, W. C. (See Kirkbride, Frederick L., assignor.)						
Duzan, Thomas H., Palestine, Tex. Adjustable attachment for freight-car doors	354,973	Dec. 28	1919	506 507	37	1385
Dwiggins, William, assignor of one-half to A. S. Hinshaw, Westfield, Ind. Lifting-jack	345,626	July 13	1183	304	36	219
Dwight, E. E., *et al.* (See Houlehan, James, assignor.)						
Dwight, George M., Oregon, Ill. Sled	339,747	Apr. 13	957	236	35	174
Dwight, William M., *et al.* (See Dumontier and Plourde, assignors.)						
Dwight, William M., Detroit, Mich. Sheathing-lath	338,220	Mar. 16	1809	472	34	1267
Dwight, William M., Detroit, Mich. Planing and matching machine. (Reissue)	10,736	June 15	1722	440	35	1336
Dwight, William M., Detroit, Mich. Undercutting-knife	354,974	Dec. 28	1921	508	37	1385
Dye, George W., Washington, Iowa. Railway-ditching machine	339,157	Apr. 6	55	17, 18	35	13
Dye, Henry B., Marquette, Mich., assignor of one-half to P. E. Dye, Washington, D. C. Railway switch-chair	343,951	June 15	1685	432	35	1329
Dye, Joseph F., Santa Paula, Cal., assignor of one-half to S. Hutton. Expansion-drill for boring-mills	349,700	Sept. 28	1583	410	36	1366
Dye, Martin E., Fayetteville, N. C. Suspension-rack	339,088	Mar. 30	3039	803	34	1497

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Dye, P. Edwin. (See Dye, Henry B., assignor.)						
Dyer, Charles H., *et al.* (See Dyer, Lucius, assignor.)						
Dyer, George L., *et al.* (See Omidan, Vincent L., assignor.)						
Dyer, Herbert S., and C. R. Monfort, New York, N. Y. Feed-bag for animals	354,050	Dec. 7	579	157	37	1111
Dyer, Jacob, Canton, Ohio. Lock-spindle for safes	341,563	May 11	822	219	35	665
Dyer, James L., and J. A. Berry, Elmira, N. Y. Two-wheeled vehicle	336,513	Feb. 16	2040	535 / 536	34	817
Dyer, John. (See Hurley, George E., assignor.)						
Dyer, Lucius, assignor of two-thirds to C. H. Dyer and G. S. Sawyer, Millbridge, Me. Anti-frictional chock or leader for rigging of vessels	341,838	May 11	1192	319	35	739
Dyer, N. Mayo. (See Upham, William P., assignor.)						
Dyer, Richard N., assignor to Commercial Telegram Company, New York, N. Y. Printing telegraph	335,275	Feb. 2	266	70	34	488
Dyer, Richard N., New York, N. Y., assignor to J. W. Howell and C. S. Van Nuis, New Brunswick, N. J., and Dyer & Seely, New York, N. Y. Night lamp for electric lighting systems	348,155	Aug. 24	2384	640	36	930
Dyer, Samuel. (See Whiteley, Bayley, and Dyer.)						
Dyer & Seely *et al.* (See Dyer, Richard N., assignor.)						
Dyer & Seely *et al.* (See Howell, John W., assignor.)						
Dyer, Whitman S., Boston, Mass. Sheet-metal can	348,551	Sept. 7	13	4	36	1051
Dykes, George R., and J. M. Woods, Pulaski County, Ga. Cotton-cultivator	333,212	Nov. 23	2076	555	37	873
Dykes, Hugh J., Berkeley, assignor, by mesne assignments, of one-half to L. Peterson, San Francisco, Cal. Rock crusher and pulverizer	343,268	June 8	718	178 / 179	35	1145
Dyott, Charles G. (See Dyott, Michael B. and C. G.)						
Dyott, Michael B. and C. G., Philadelphia, Pa. Lamp	334,698	Jan. 19	1704	454 / 455	34	329
Dysart, John T., Shippensville, Pa. Apparatus for manufacturing carbon-black	343,446	June 8	1002	250	35	1196
Dyson, Thomas. (See Matthews, Dyson, and Ormerod.)						
Dyson, Thomas, New York, N. Y. Double-acting pump	350,875	Oct. 12	1095	292	37	207
Eachus, George W., assignor to A. Imbric and J. S. Pittenger, Greencastle, Pa. Remedy for hog-cholera	340,771	Apr. 27	2390	.....	35	447
Eads, John B., assignor of one-half to C. E. McClure, Mattoon, Ill. Steam-engine	349,573	Sept. 21	1421	367	36	1327
Eagle, Henry A. (See Sullivan and Eagle.)						
Eagle Machine Company. (See Outcalt, Jesse P., assignor.)						
Eagle Pencil Company. (See Benson, Henry C., assignor.)						
Eagle Pencil Company. (See Boman, Claes W., assignor.)						
Eagle Pencil Company. (See Fischer, Frederick J. W., assignor.)						
Eagle Pencil Company. (See Kraus, Samuel, assignor.)						
Eagle Pencil Company. (See Sandell, Gustaf R., assignor.)						
Eagle Pencil Company. (See Singleton, George, assignor.)						
Eagle Pencil Company. (See Vedder, Andrew S., assignor.)						
Eagle Tube Company. (See Ritchie, Matthew L., assignor.)						
Eakin, John P., Jollytown, Pa. Car-coupling	340,298	Apr. 20	1730	440	35	321
Eakins, John, Philadelphia, Pa. Sash-holder	346,363	July 27	2221	569 / 570	36	425
Eames, Daniel W., Constableville, N. Y. Car-truck	350,923	Oct. 19	1160	308	37	225
Eames, Elisha D. (See Burns, John B., assignor.)						
Eames, Elisha D., Watertown, N. Y. Ejector for vacuum-brakes	341,894	May 18	1275	341	35	762
Eames, Elisha D., Watertown, N. Y. Locomotive-brake	346,364	July 27	2232	570	36	425
Eames, Elisha D., Watertown, N. Y. Brake for railways	354,401	Dec. 14	1093	293	37	1213
Eames, Gardner T., Cincinnati, Ohio. Loose pulley	335,183	Feb. 2	137	35	34	465
Eames, Hiram W., Milford, Mass. Bail fastening or clutch	338,342	Mar. 23	1976	520	34	1305
Eames Vacuum Brake Company. (See Massey, Albert P., assignor.)						
Earl, Rasselas E., Dunkirk, N. Y. Carriage-top	335,801	Feb. 9	1014	268	34	629
Earle, Henry E., Danbury, Conn. Hydrant and fire-plug	353,739	Dec. 7	123	34	37	1029
Earle, John E. (See Mead, Reuben C., assignor.)						
Earle, William L., and C. G. Crofoot, Tully, N. Y. Spring-vehicle	338,940	Mar. 30	2818	743	34	1461
Earles, John H., Denver, Colo. Fire-alarm	351,753	Nov. 2	35	10	37	465
Earles, John H., Denver, Colo. Car-coupling	351,754	Nov. 2	36	10	37	465
Earnshaw, John, Warwick, assignor to T. A. Pierce and I. H. Wadleigh, East Greenwich, R. I. Machine for making brushes	344,361	June 29	2271	584	35	1448
Easley, Henry L., Fredericksville, Ill. Wheel-barrow	334,165	Jan. 12	943	255	34	182
Eason, George L., assignor of one-half to R. Fullerton, Des Moines, Iowa. Collapsible flying target	341,463	May 11	693	185	35	640
East, Albert C. (See Kuhns, Edgar A., assignor.)						
East, Henry, D. K. Price, and H. R. East, Rochester, N. Y.; said H. R. East assignor of one-half his right to Henry East. Machine for sharpening horseshoe-calks	347,698	Aug. 17	1727	461	36	800
East, Henry R. (See East, Price, and East.)						
East, John F., Tanner's Creek, Va. Saw-guide	344,175	June 22	2000	515	35	1393
Easterday, William T., Watsonville, Cal. Wagon-jack	342,953	June 1	254	65	35	1052
Eastern Electric Cable Company. (See Clark, Henry A., assignor.)						
Eastin, Arthur L., assignor of two-thirds to A. Whipple and J. L. Pollard, St. Louis, Mo. Proof-taking roller machine	352,049	Nov. 2	460	125	37	546
Eastlick, Lafayette and W. W., Oro Fino, Cal. Hydraulic gravel-elevator	351,969	Nov. 2	346	95, 96	37	523
Eastlick, William W. (See Eastlick, Lafayette and W. W.)						
Eastman, Andrew M., assignor to T. C. Eastman, Milford, Mass. Machine for covering the exterior of paper boxes	347,999	Aug. 24	2163	576 / 577	36	888
Eastman, Andrew M., assignor to T. C. Eastman, Milford, Mass. Cutter for paper-box-covering machines	348,000	Aug. 24	2168	577	36	888
Eastman, Clyde, Thompson Falls, Mont. Ter. Wheeled hay-rake	349,837	Sept. 28	1797	464	36	1405
Eastman Dry Plate and Film Company. (See Eastman and Cossitt, assignors.)						
Eastman, Franklin P., New York, N. Y. Feed-bag for animals	347,582	Aug. 17	1549	412	36	767
Eastman, Fred B., Waterville, Me. Steam-trap	341,737	May 11	1063	282	35	713
Eastman, George, and F. M. Cossitt, assignors to Eastman Dry Plate and Film Company, Rochester, N. Y. Detective camera	353,545	Nov. 30	2560	683 / 684	37	970
Eastman, George H. (See Grime, John, assignor.)						
Eastman, Joseph H. (See Craig and Eastman.)						
Eastman, Joseph H., assignor to Boston Clock Company, Boston, Mass. Clock	343,629	June 15	1256	316	35	1248
Eastman, Sylvester, Providence, R. I., assignor to Synchronous Time Company of Portland, Me. Clock-pendulum	337,384	Mar. 9	676	177	34	1057
Eastman, Sylvester, Providence, R. I., assignor to Synchronous Time Company of Portland, Me. Electric regulator for pendulum-clocks	337,385	Mar. 9	677	177	34	1057
Eastman, Thomas C. (See Eastman, Andrew M., assignor.)						
Eastman, Weston T., Rockland, assignor of one-half to A. F. Kelley, Cambridgeport, Mass. Steam-generator	340,106	Apr. 20	1437	363	35	268

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Eastman, William H., assignor, by mesne assignments, to Popular Telephone Company, Concord, N. H. Mechanical telephone	348,896	Sept. 7	488	129	36	1137
Easton, Archibald G., St. Louis, Mo. Air-brake	354,014	Dec. 7	529	'44	37	1103
Easton & Burnham. (See Burnham, George W., assignor.)						
Easton, Thomas S., New York, N. Y. Tempering-bulb for syringes, &c	338,045	Mar. 16	1574	410	34	1221
Eastwood, James W., Thorold, Ontario, Canada. Trimming attachment for sewing-machines	334,114	Jan. 12	864	237	34	168
Eastwood Wire Manufacturing Company. (See Ogden, John R., assignor.)						
Eastwood Wire Manufacturing Company. (See Smith, Charles, assignor.)						
Eaton, Asahel K., Brooklyn, N. Y. Machine for covering insulated wires with lead	345,956	July 20	1656	427, 428	36	310
Eaton, Cole & Burnham Company. (See Tomlinson, Edwin R., assignor.)						
Eaton, Edmund O., London, county of Middlesex, England. Kettle	347,334	Aug. 17	1195	320	36	702
Eaton, George H., North Middleborough, Mass. Axle-nut	346,469	Aug. 3	28	7	36	466
Eaton, Hugh F., Parsons, Kans. Bustle	340,706	Apr. 27	2302	606	35	430
Eaton, Hugh F., Chicago, Ill. Machinery for forming wire bustles	353,928	Dec. 7	397	105	37	1080
Eaton, James W., *et al.* (See Hyman, Samuel, assignor.)						
Eaton, Joseph B., and G. Cash, Philadelphia, Pa.; said Cash assignor to H. Keel, Brooklyn, N. Y. Indicator for gas-cocks	340,495	Apr. 20	1998	513	35	372
Eaton, Levi F., Meriden, Conn. Blacking-box holder	345,957	July 20	1659	428	36	311
Eaton, Norman, Woburn, Mass. Steam-generator	350,483	Oct. 12	540	150	37	107
Eaton, Thomas W., F. H. Prince, and J. H. Livesey, Chicago, Ill., assignors to said Eaton and Prince. Safety-brake for elevators	347,778	Aug. 24	1845	491, 492	36	829
Ebben, John, *et al.* (See Kugler, Henry, assignor.)						
Eberhard, George F., Cleveland, Ohio. Harness-trimming	334,006	Jan. 12	701	193	34	139
Eberhard, George F., Cleveland, Ohio. Harness-trimming	334,007	Jan. 12	702	193	34	139
Eberhard, George F., assignor to Eberhard Manufacturing Company, Cleveland, Ohio. Harness-terret	335,116	Feb. 2	23	7	34	445
Eberhard, Gotthilf, Akron, Ohio. Rosette	352,912	Nov. 23	1639	440	37	790
Eberhard Manufacturing Company. (See Eberhard, George F., assignor.)						
Eberhardt, Ulrich, Newark, N. J. Guard for tool-grinding wheels	354,543	Dec. 21	1303	346	37	1258
Eberhart, John S., Laporte City, Iowa. Combined chimney and ventilator	340,299	Apr. 20	1730	440	35	321
Eberhart, Lloyd, and I. D. Stevens, Joliet, Ill. Seeding-machine	340,563	Apr. 27	2100	541, 542	35	397
Eberlein, C. (See Class, William F., assignor.)						
Eberman, Albert S., Cleveland, Ohio. Injector	334,852	Jan. 26	1902	507	34	374
Ebken, John G., Pittsburg, Pa. Fifth-wheel gear for vehicles	338,394	Mar. 23	2057	539	34	1318
Eby, J. Daniel, trustee. (See Bonta, James W., assignor.)						
Eccles, James, Philadelphia, Pa. Machine for coiling warps	349,148	Sept. 14	841	214, 215	36	1205
Eccleston, William H., Southbridge, Mass. Nose-guard for eyeglasses	333,843	Jan. 5	475	129	34	88
Eckardt, Johannes C., Stuttgart, Germany. Mechanism for turning Christmas-trees with or without accompaniment of music	333,617	Jan. 5	157	42, 43	34	31
Eckel, Howard, Pittsburg, Pa. Car-coupling	343,989	June 22	1742	448	35	1346
Eckel, J. Howard, *et al.* (See Pearson, Robert P., assignor.)						
Eckelhoff, J. Henry, *et al.* (See Stitzel and Weimedel, assignors.)						
Eckersall, Walter, Hyde Park, Ill. Burglar-alarm	334,761	Jan. 26	1791	476	34	353
Eckerson, Charles W., Creston, Iowa. Loose-pulley oiler	341,738	May 11	1065	282	35	714
Eckerson, David L., assignor of one-half to A. Diefendorf, Worcester, N. Y. Machine for making wire bale-ties	337,939	Mar. 16	1423	368, 369, 370	34	1195
Eckerson, David L., assignor to himself and A. Diefendorf, Worcester, N. Y. Machine for straightening and cutting wire	344,819	July 6	20	[illegible]	36	6
Eckerson, David L., assignor to himself and A. Diefendorf, Worcester, N. Y. Machine for making bale-ties	348,833	Sept. 7	390	106	36	1120
Eckert, Augustus, Trenton, Ohio. Device for closing gates, &c	353,298	Nov. 30	2198	588	37	902
Eckstein, Fred, Jr., Cincinnati, Ohio. Drive-chain	340,300	Apr. 20	1731	441	35	324
Eckstein, Fred, Jr., Cincinnati, Ohio. White-lead cooler	340,772	Apr. 27	2390	630	35	447
Economic Plow Company. (See Tower, Caleb E., assignor.)						
Economist Plow Company. (See Meagher, Edmund D., assignor.)						
Economy Kindling Wood Stove Company. (See Wiegand, S. Lloyd, assignor.)						
Economy Manufacturing Company. (See Gold, Joseph S., assignor.)						
Ecuyer, Emile S. (See Spangemberg, Robert F., assignor.)						
Eddington, Edwin E., Janesville, Wis. Cultivator	347,583	Aug. 17	1550	412	36	768
Eddington, Frank G., assignor to E. B. Foote and W. R. Wagner, Chicago, Ill. Adjustable leg for wash-tubs	348,195	Aug. 31	2456	660	36	949
Eddleman, Francis N., assignor of three-fourths to W. J. Howard, J. C., A. C., and J. H. Cooper, Mount Pleasant, Tenn. Car-coupling	338,823	Mar. 16	1267	328	34	1166
Eddy, Alfonzo J., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Meat-cutter	347,477	Aug. 17	1404	374	36	739
Eddy, Frank N., *et al.* (See Westgate, Joseph D., assignor.)						
Eddy, George D., assignor of one-half to B. E. Valentine, Brooklyn, N. Y. Printing on resawed lumber	338,046	Mar. 16	1575	410	34	1222
Eddy, Irvine H. (See Williams and Eddy.)						
Eddy, Newton J., Portland, Mich. Watch-regulator	342,864	June 1	125	31	35	1029
Eddy, Oscar H., *et al.* (See McCall, William H., assignor.)						
Eddy, Walden G., *et al.* (See McCall, William H., assignor.)						
Ede, Samuel. (See Lux and Ede.)						
Edel, Theodore S. (See Green, Edel, and Pagel.)						
Edelmann, Adam, Germantown, N. Y. Vehicle-spring	340,036	Apr. 13	1344	336	35	245
Eden, Alfred. (See Crane and Eden.)						
Edgar, Butler, assignor of one-half to W. Abbott, Espy, Pa. Tea or coffee cup	351,255	Oct. 19	1638	430	37	313
Edgar, Ellis F., Woodbridge, N. J. Pneumatic and electric railway	346,902	Aug. 10	580	155, 156	36	580
Edgar, Joseph M., assignor of one-half to J. Z. Roraback, Kansas City, Mo. Lock	344,176	June 22	2010	515	35	1393
Edgar, Joseph M., assignor to J. Z. Roraback, Kansas City, Mo. Lock	352,085	Nov. 2	515	137, 138	37	555
Edgcomb, Roswell S. (See Burch, George C., assignor.)						
Edge, John S., Bryan, Tex. Machine for building and rerolling wire fences	350,423	Oct. 5	423	121, 122	37	83
Edge, Knowles, Raphael Street, Bolton, county of Lancaster, England. Mode of wrapping colors	340,434	Apr. 20	1904	490	35	354
Edgerly, Curtis C., assignor of one-half to H. N. Stone, Boston, Mass. Pipe and nut wrench	342,078	May 18	1530	408	35	809
Edgerly, James N., Cleveland, Ohio. Truss hedge fence	347,423	Aug. 17	1318	351	36	724

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Edgerton Electric Motor Company of New Jersey. (See Edgerton, Nathan H., assignor.)						
Edgerton, Henry H., Danbury, Conn. Apparatus for the manufacture of illuminating-gas.	339,748	Apr. 13	957	236 237	35	175
Edgerton, Nathan H., Philadelphia, Pa., assignor, by mesne assignments, to Edgerton Electric Motor Company of New Jersey. Electric motor	354,111	Dec. 14	673	181 182	37	1137
Edison Electric Light Company. (See Bradley, Charles S., assignor.)						
Edison Electric Light Company. (See Edison, Thomas A., assignor.)						
Edison Electric Light Company. (See Sprague, Frank J., assignor.)						
Edison Electric Light Company. (See Wheeler, Schuyler S., assignor.)						
Edison Lamp Company. (See Howell, John W., assignor.)						
Edison Lamp Company. (See Stieringer, Luther, assignor.)						
Edison Machine Works. (See Crocker, Francis B., assignor.)						
Edison, Thomas A. (See Stern, William A., assignor.)						
Edison, Thomas A., Menlo Park, N. J. System of electrical distribution	339,279	Apr. 6	236	59	35	44
Edison, Thomas A., Menlo Park, N. J. Telephone repeater	340,707	Apr. 27	2303	606	35	430
Edison, Thomas A., Menlo Park, N. J. Electrical signaling apparatus	340,708	Apr. 27	2304	606	35	430
Edison, Thomas A., Menlo Park, N. J. Incandescing electric lamp	341,839	May 11	1193	319	35	739
Edison, Thomas A., Menlo Park, N. J. System of electrical distribution	343,017	June 1	328	84	35	1067
Edison, Thomas A., Menlo Park, N. J. Electrical signaling apparatus	347,097	Aug. 10	863	228 229	36	631
Edison, Thomas A., Menlo Park, N. J. Electrode for telephone-transmitters	348,114	Aug. 24	2327	624	36	919
Edison, Thomas A., Menlo Park, N. J. Manufacture of carbon conductors	354,310	Dec. 14	976	259	37	1191
Edison, Thomas A., Llewellyn Park, N. J. Incandescent electric lamp	351,856	Nov. 2	185	51	37	493
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Mold for carbonizing	334,853	Jan. 26	1904	507	34	374
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Electric railway	339,278	Apr. 6	234	58	35	43
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Incandescent electric lamp	341,644	May 11	936	248	35	688
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Electric lamp	351,855	Nov. 2	184	50	37	492
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Incandescent electric lamp	353,783	Dec. 7	179	49	37	1040
Edison, Thomas A., Menlo Park, N. J., and S. Bergmann, New York, N. Y. Telephone	337,254	Mar. 2	499	130	34	1018
Edison, Thomas A., Menlo Park, N. J., and E. T. Gilliland, Boston, Mass. Telephone-circuit	340,709	Apr. 27	2305	607	35	430
Edison, Thomas A., Menlo Park, N. J., and E. T. Gilliland, Boston, Mass. Railway telegraphy	350,235	Oct. 5	192	55	37	40
Edison, Thomas A., Menlo Park, N. J., and E. T. Gilliland, Boston, Mass., assignors to Railway Telegraph and Telephone Company. System of railway-signaling	350,234	Oct. 5	190	55	37	39
Edlebrock, William F. (See Parker, John J., assignor.)						
Edmiston, James B., Liverpool, county of Lancaster, England. Condenser	351,585	Oct. 26	2155	557	37	412
Edmiston, Levi Q., assignor of one-half to F. L. Wright, Smithton, Mo. Bag and twine holder	335,063	Jan. 26	2186	581	34	424
Edmond, R. Lee, Richmond, Va. Cut-off governor	353,126	Nov. 23	1947	522	37	848
Edmonds, Charles L. (See Barnes and Edmonds.)						
Edmondson, Thomas G., Tarpon Springs, Fla. Skeg attachment for vessels	352,682	Nov. 16	1335	360	37	722
Edmonson, James W., Mendon, Ohio. Saw-jointing device	352,050	Nov. 2	462	125	37	546
Edmunds, Frank M., Franklin Falls, N. H. Paper-trimming machine	341,895	May 18	1277	342	35	762
Edmunds, George, *et al.* (See Bartels, William H., assignor.)						
Edney, Cartwright J., assignor of one-half to A. Horton, Saltillo, Tex. Heel-brace	355,258	Dec. 28	2333	614	37	1465
Ednie, George, McDonald Station, Pa. Coal-mining machine	355,153	Dec. 28	2177	574	37	1433
Edrington, Thomas W., assignor to himself, Green Brothers, and B. E. Addis, Patriot, Ind. Gate	341,645	May 11	937	248	35	688
Edson, Jarvis B., Brooklyn, N. Y. Pneumatic check for doors, &c	352,233	Nov. 9	747	200	37	603
Edson, Jarvis B., Brooklyn, assignor to American Zylonite Company, New York, N. Y. Reduction of zylonite and other plastic compositions to form sheets	349,987	Sept. 28	1992	515	36	1443
Edson, Jarvis B., Brooklyn, assignor to American Zylonite Company, New York, N. Y. Process of and apparatus for mounting pyroxyline or analogous substances upon a mandrel	350,049	Sept. 28	2068	534 535	36	1458
Edson, William, Somerville, Mass. Disinfecting-mat	336,557	Feb. 23	2103	553	34	854
Edwards, Abraham, New York, N. Y. Mercury-seal trap	339,749	Apr. 13	962	237	35	175
Edwards, Abraham, New York, N. Y. Destroying disease-germs in sanitary appliances	340,202	Apr. 20	1587	401	35	296
Edwards, Alfred L., New York, N. Y. Grape-tongs	342,341	May 25	1905	503	35	885
Edwards, Charles D., Albert Lea, Minn. Cockle-separating machine	335,902	Feb. 9	1162	309	34	655
Edwards, Charles G., Rushford, Minn. Door-alarm	339,750	Apr. 13	963	237	35	176
Edwards, Charles J., Fairville, Mo. Sash-fastener	346,096	July 27	1846	476	36	354
Edwards, Charles M., *et al.* (See Rawbone, Joseph L., assignor.)						
Edwards & Co. (See Lauger, Adam, assignor.)						
Edwards, Frank W., Thurlow, Pa. Box-nailing machine	342,788	June 1	19	6	35	1010
Edwards, Henry. (See Green, Hiram E., assignor.)						
Edwards, James M., Audubon, Iowa. Car-coupling	339,751	Apr. 13	964	237	35	176
Edwards, Lemuel F., Crawford, Ga. Corn and pea planter	355,009	Dec. 28	1970	518	37	1393
Edwards, Thomas, Amherst, Nova Scotia, Canada. Chimney-cap	336,707	Feb. 23	2318	607	34	873
Edwards, Thomas, Jr., Haring, Mich. Garden-seed drill	347,779	Aug. 24	1846	492	36	830
Edwards, William F., Summit, N. J. Paper-making machine	334,072	Jan. 12	801	219 220	34	157
Egan Company. (See Bugbee and Danner, assignors.)						
Egan Company. (See Danner and Egan, assignors.)						
Egan, James, Chicago, Ill. Street-lamp	347,478	Aug. 17	1405	374	36	740
Egan, James W., Philadelphia, Pa. Refrigerator	348,115	Aug. 24	2328	624	36	919
Egan, Thomas. (See Gunn, John C., assignor.)						
Egan, Thomas, Pittsburg, Pa. Composition for streets, sidewalks, &c	349,304	Sept. 21	1038	.....	36	1252
Egan, Thomas P. (See Danner and Egan.)						
Egan, William M., Salt Lake City, Utah Ter. Washing-machine	347,780	Aug. 24	1847	492	36	830
Ege, Alexander H. (See Dodson, Wilson P., assignor.)						
Ege, Alexander H., Mechanicsburg, Pa. Rail-joint support	349,305	Sept. 21	1038	266	36	1252
Egge, Frederick, assignor to Smith & Egge Manufacturing Company, Bridgeport, Conn. Metal chain-link	344,953	July 6	214	55	36	40
Egge, Frederick, assignor to Smith & Egge Manufacturing Company, Bridgeport, Conn. Attachment for stitching and cutting button-holes	345,419	July 13	866	216	36	161
Eggers, Ferdinand, Milwaukee, Wis. Whiffletree-hook	337,255	Mar. 2	500	130	34	1018

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Eggleston, Charles H., Marshall, Mich. Button-setting instrument	343,799	June 15	1494	376	35	1291
Egli, Eugene. (See Phillips, Theodore, assignor.)						
Egly, John C., assignor to T. A. Pearce, Philadelphia, Pa. Knitting-machine needle	342,739	May 25	2488	661	35	991
Egly, John C., assignor to T. A. Pearce, Philadelphia, Pa. Knitting-machine needle	345,126	July 6	452	117	36	82
Eguew, Alvin, near Leesburg, Ky. Poke	337,386	Mar. 9	679	178	34	1058
Egnor, James W. (See Greene and Egnor.)						
Egolf, John H. (See Beisel, Franklin P., assignor.)						
Egolf, Samuel H. (See Burgess and Egolf.)						
Ehbets, Carl J. (See Franklin and Ehbets.)						
Ehbets, Carl J., assignor to Colt's Patent Fire-Arms Manufacturing Company, Hartford, Conn. Breech-loading fire-arm	341,227	May 4	362	100	35	571
Ehbets, Carl J., assignor to Colts Patent Fire-Arms Manufacturing Company, Hartford, Conn. Magazine fire-arm	343,800	June 15	1495	377	35	1292
Ehlermann, Charles, St. Louis, Mo., and C. G. Mayer, Nauvoo, Ill. Grain-drier	336,905	Mar. 2	34	9	34	933
Ehlers, John D., Baltimore, Md. Varnishing machine	344,954	July 6	215	55	36	40
Ehlin, Erich, San Francisco, Cal. Cigar	341,323	May 4	500	136	35	595
Ehrenzeller-Hoegger, George, St. Galle, Switzerland. Embroidering	345,127	July 6	453	117	36	82
Ehrlich, Friedrich E. P., Gohlis, near Leipsic, Saxony, Germany. Mechanical musical instrument	335,903	Feb. 9	1163	309, 310	34	656
Ehrlich, Friedrich E. P., Gohlis, near Leipsic, Saxony, Germany. Mechanical musical instrument	338,496	Mar. 23	2189	573	34	1344
Ehrlich, Friedrich E. P., Gohlis, near Leipsic, Saxony, Germany. Mechanical musical instrument	343,116	June 1	494	125	35	1095
Ehrlich, Friedrich E. P., Gohlis, near Leipsic, Saxony, Germany. Mechanical musical instrument	349,634	Sept. 21	1493	387	36	1342
Ehrlich, Herman, Jersey City, N. J. Telephone-transmitter	346,846	Aug. 3	489	135	36	556
Ehrlich, James E., Baltimore, Md. Winding-indicator for time-pieces	340,867	Apr. 27	2520	663	35	470
Ehrlich, Leo, St. Louis, Mo. Safety-razor	338,047	Mar. 16	1575	410	34	1222
Ehrlich, Leo, St. Louis, Mo. Razor	338,167	Mar. 16	1736	453	34	1254
Eibler, Frederick, Cleveland, Ohio. Compressor	349,342	Sept. 21	1081	277, 278	36	1261
Eichert, George. (See Burnett and Eichert.)						
Eichmeyer, Joseph C., assignor of nine-tenths to F. J. Callanen, J. R. Swan, and A. H. Palmer, Utica, N. Y. Telephone-receiver	354,402	Dec. 14	1094	294	37	1213
Eickemeyer, Rudolf, Yonkers, N. Y. Hat-brim-curling machine	334,221	Jan. 12	1034	275, 276	34	201
Eickemeyer, Rudolf, Yonkers, N. Y. Hat-brim-heating machine	338,497	Mar. 23	2190	573	34	1344
Eickemeyer, Rudolf, Yonkers, N. Y. Setting-press for curling hat-brims	338,498	Mar. 23	2192	574	34	1344
Eickemeyer, Rudolf, Yonkers, N. Y. Hat-brim-curling machine	338,499	Mar. 23	2195	574, 575	34	1344
Eickemeyer, Rudolf, Yonkers, N. Y. Magneto-electric and electro-magnetic machine	342,504	May 25	2150	568, 569, 570	35	927
Eickemeyer, Rudolf, Yonkers, N. Y. Dynamo-electric and electro-magnetic machine	342,587	May 25	2254	599	35	948
Eickemeyer, Rudolf, Yonkers, N. Y. Dynamo-electric and electro-magnetic machine	342,588	May 25	2257	599	35	948
Eickemeyer, Rudolf, Yonkers, N. Y. Dynamo-electric machine	342,589	May 25	2259	599	35	948
Eickemeyer, Rudolf, Yonkers, N. Y. Machine for folding or curling hat-brims	349,701	Sept. 28	1584	410, 411	36	1366
Eickemeyer, Rudolf, Yonkers, N. Y. Magneto-electric and electro-magnetic machine	351,902	Nov. 2	243	69	37	503
Eickemeyer, Rudolf, Yonkers, N. Y. Magneto-electric and electro-magnetic machine	351,903	Nov. 2	245	69	37	503
Eickemeyer, Rudolf, Yonkers, N. Y. Electro-magnetic and magneto-electric machine	351,904	Nov. 2	248	70	37	504
Eickemeyer, Rudolf, Yonkers, N. Y. Telephone	351,905	Nov. 2	250	70	37	504
Eickemeyer, Rudolf, Yonkers, N. Y. Dynamo-electric machine or electric motor	351,906	Nov. 2	252	70, 71	37	504
Eickemeyer, Rudolf, Yonkers, N. Y. Device for taking electric currents from or to moving surfaces	351,907	Nov. 2	255	71, 72	37	505
Eickemeyer, Rudolf, Yonkers, N. Y. Electro-magnetic and magneto-electric machine	352,234	Nov. 9	749	201	37	603
Eickemeyer, Rudolf, Yonkers, N. Y. Cushioning-spring	352,812	Nov. 16	1502	405	37	754
Eickemeyer, William C., *et al.* (See Wickizer, Samuel, assignor.)						
Eickershoff, John H., Cincinnati, Ohio. Single-acting compound engine	339,280	Apr. 6	237	59	35	44
Eickershoff, John H., Cincinnati, Ohio. Reversible single-acting compound engine	339,281	Apr. 6	239	60	35	44
Eickershoff, John H., Cincinnati, Ohio. Cut-off device for engines	339,282	Apr. 6	241	60	35	45
Eiermann, John H., St. Louis, Mo. Hand-roller printing-machine	353,670	Dec. 7	22	7	37	1011
Eilers, Bernard D., Utica, N. Y. Cigar-cutter	344,362	June 29	2273	584	35	1448
Eils, Bette E. J., Washington, D. C. Duplex telegraph	337,314	Mar. 2	585	154	34	1034
Einbigler & Adler. (See Fulda, Max, assignor.)						
Einfelds, Christian. (See Lafreuz, John C., assignor.)						
Einstein, Henriette, Philadelphia, Pa. Dress-shield	349,149	Sept. 14	842	215	36	1206
Eirick, Luther M., Chicago, Ill., assignor to I. A. Whitman, New York, N. Y., C. S. Norris and I. Stover, Chicago, Ill. Combined rack and table	348,271	Aug. 31	2563	688	36	968
Eisen, Hermann J., assignor to Waterbury Watch Company, Waterbury, Conn. Mechanism for timing balances	339,051	Mar. 30	2987	790	34	1489
Eisenhardt, George F., assignor to Dienelt & Eisenhardt, Philadelphia, Pa. Step-bearing	352,308	Nov. 9	848	229	37	622
Eisenhart, Henry W. (See Farquhar, Eisenhart, and Root.)						
Eisenhart, Oscar W., Ephrata, Pa. Bung	343,574	June 15	1187	298	35	1236
Eisenhour, Martin A. (See Zehner and Eisenhour.)						
Eisenstein, Julius D. (See Krones, Ernest A., assignor.)						
Eisolt, Dennis, Milwaukee, Wis. Extension chamfer-knife	351,586	Oct. 26	2156	557	37	413
Eissler, Manuel, New York, N. Y., assignor to United States Dynamite Company of New York. Dynamite	347,424	Aug. 17	1319	.....	36	724
Eitemiller, George M. (See Williams, Eitemiller, and Lucock.)						
Eklund, Carl A., and J. F. Westin, Worcester, Mass. Lathe-tool	337,673	Mar. 9	1068	275	34	1125
Ekman, Karl A., Bofors, Sweden. Rotary engine	342,079	May 18	1531	408, 409	35	809
Elam, William E., Americus, Ga. Ticket-case	344,091	June 22	1893	485	35	1373
Elam, William E., Americus, Ga. Device for stringing and filing papers	350,976	Oct. 19	1242	330	37	240
Elbel, Gustavus, Canton, Ohio. Trace-chain carrier	348,196	Aug. 31	2457	660	36	949
Elcock, Alfred, *et al.* (See Westgate, Joseph D., assignor.)						
Elder, Joseph, Peoria, Ill. Traction-wheel	335,904	Feb. 9	1164	310	34	656
Elder, Niles C., Fergus Falls, Minn. Combination wash-sink	335,437	Feb. 2	488	127	34	529
Eldon, Mayberrie S., Williamsport, Pa. Clamp for holding dynamo-electric brushes while being filed	337,824	Mar. 16	1268	329	34	1166
Eldred, Nelson B., Auburn, N. Y. Hydraulic method and machinery	354,112	Dec. 14	675	182	37	1138

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Eldredge, Barnabas. (See Dieterle, Henry E., assignor.)						
Eldredge, Jean M. (See Peden, Joseph S., assignor.)						
Eldredge Manufacturing Company. (See Ransom, Martin, assignor.)						
Electric Locomotive and Power Company. (See Elieson, Chaimsonovitz P., assignor.)						
Electric Motor Company, C. & C. (See Curtis and Crocker, assignors.)						
Electric Motor Company, C. & C. (See Curtis and Wheeler, assignors.)						
Electric Motor Company, C. & C. (See Wheeler and Curtis, assignors.)						
Electric Time Company. (See Carey, Julian E., assignor.)						
Electric Time Company. (See Sweet, D. Fred, assignor.)						
Electrical and Mechanical Developing Company. (See Cutten, Elisha B., assignor.)						
Electrical Development and Manufacturing Company. (See Davis and Gale, assignors.)						
Elger, Charles C., *et al.* (See Weller, Chester A., assignor.)						
Elger & Elger. (See Weller, Chester A., assignor.)						
Elger, William D., *et al.* (See Weller, Chester A., assignor.)						
Elgin National Watch Company. (See Corliss, Charles P., assignor.)						
Elgin National Watch Company. (See Hunter, George, assignor.)						
Elgin National Watch Company. (See Perkins, Francis B., assignor.)						
Elgin National Watch Company. (See Smith, Carlos H., assignor.)						
Elieson, Chaimsonovitz P., assignor to Electric Locomotive and Power Company, (limited,) London, England. Apparatus for transmitting power from electric motors	344,260	June 22	2126	543	35	1414
Elkin, Edwin S., Springfield, Ill. Device for sharpening horseshoe-calks	345,491	July 13	965	244	36	179
Elkins, Ira S., New York, N. Y. Box-strap	349,150	Sept. 14	843	215	36	1206
Elkins, Jedediah K. (See Kuykendall and Elkins.)						
Eller, Frances E., Fairmont, Nebr. Combined blackboard and perforated desk-top	343,164	June 8	569	143	35	1119
Eller, Frederick, *et al.* (See Beutel, Jacob, assignor.)						
Eller, James H., Canton, Ohio. Metal roofing	336,098	Feb. 16	1441	380	34	711
Ellery, Florence A., Taunton, Mass. Garment-supporter	343 630	June 15	1257	316	35	1249
Ellin, Robert, Yonkers, N. Y. Vacuum-evaporator for milk	347,584	Aug. 17	1552	413	36	768
Ellin, Robert, Yonkers, N. Y. Preserving milk	349,574	Sept. 21	1423	368	36	1327
Ellingen, Edward, Mineral Point, Wis. Wash-board	354,113	Dec. 14	677	182	37	1138
Ellinger, John F. (See Shaw and Ellinger.)						
Elliot, John W., Toronto, Ontario, Canada. Fire-proof garment	334,360	Jan. 12	1237	332	34	237
Elliot, Joseph D., Newton Centre, Mass. Cloth-folding machine	342,190	May 18	1664	444	35	833
Elliott, Charles W., Moncton, New Brunswick, Canada. Folding paper box	350,727	Oct. 12	888	237	37	169
Elliott, Ebenezer. (See Vinson, Peter, assignor.)						
Elliott, Francis E., U. S. Army. Car-step	338 048	Mar. 16	1577	411	34	1222
Elliott, Franklin O., Sparkling Catawba Springs, N. C. Steam-engine	346,741	Aug. 3	363	97, 98	36	531
Elliott, George W., De Smet, Dak. Ter. Machinery for pressing hay, &c., for fuel	346,470	Aug. 3	29	7	36	466
Elliott, Isaac N., Cox's Mills, Ind. Fence-machine	343,232	June 8	665	165 / 166	35	1136
Elliott, John A., *et al.* (See Fleck, Joseph V., assignor.)						
Elliott, John C., Rittman, Ohio. Car starter and brake	335,217	Feb. 2	191	51	34	474
Elliott, John G., Flushing, Ohio. Neck-yoke	344,092	June 22	1894	486	35	1373
Elliott, John W., Beverly, Mass. Plaster-can	340,564	Apr. 27	2105	542	35	398
Elliott, Matthew P. (See Neale and Elliott.)						
Elliott, Millard F., Philadelphia, Pa. Regulating-valve for gas-burners	348,897	Sept. 7	489	129	36	1137
Elliott & Moseley Watch Spring Company. (See Elliott, Myron W., assignor.)						
Elliott, Myron W., assignor to Elliott & Moseley Watch Spring Company, Elgin, Ill. Die for drawing watch-springs	333,735	Jan. 5	331	91	34	62
Elliott, Robert S., L. W. Page, and H. F. Lewis, Shreveport, La. Ice-cutting machine	340,435	Apr. 20	1905	490	35	354
Elliott, W. P., *et al.* (See Farrar and Mills, assignors.)						
Elliott, Walter S., Brooklyn, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Rubber-dam clamp	335,747	Feb. 9	932	246	34	615
Elliotte, Charles F., and J. W. McGarvey, Seneca Falls, N. Y.; said McGarvey assignor to said Elliotte. Combination-lock	340,942	Apr. 27	2617	689	35	487
Ellis, Charles C. (See Rettberg and Ellis.)						
Ellis, Charles R., Minneapolis, Minn. Cheese-safe	353,546	Nov. 30	2564	684	37	971
Ellis, Edward, *et al.* (See Rodebaver, Oscar F., assignor.)						
Ellis, Frederick L., New Haven, Conn. Making buttons	345,835	July 20	1490	386	36	279
Ellis, Frederick S., *et al.* (See Shaw, John H., assignor.)						
Ellis, George A., Gardner, Mass., assignor to Haywood Bros. & Co., New York, N. Y. Baby-carriage	336,303	Feb. 16	1763	461	34	765
Ellis, George B. (See Ellis, John, assignor.)						
Ellis, George H., London, England. Portable apparatus for use with closets, commodes, and the like for deodorizing and disinfecting purposes	339,752	Apr. 13	965	238	35	176
Ellis, George H., London, England. Portable dry-earth or carbon closet	341,464	May 11	694	186	35	641
Ellis, Harry S. (See Ramsden and Ellis.)						
Ellis, James M., New Haven, Conn. Machine for capping nails	336,994	Mar. 2	148	40	34	952
Ellis, John, Lynn, Mass. Lubricator	347,335	Aug. 17	1196	320	36	703
Ellis, John, Lynn, Mass. Lubricator	347,336	Aug. 17	1198	320	36	703
Ellis, John, assignor to G. B. Ellis, East Coventry, Pa. Thrashing-machine	336,339	Feb. 16	1889	494 / 495	34	790
Ellis, John, assignor to G. B. Ellis, East Coventry, Pa. Thrashing-machine	336,400	Feb. 16	1893	495 / 496	34	790
Ellis, Richard E., assignor of two-thirds to G. N. Kuntzsch, Syracuse, and T. W. Meachem, Onondaga, N. Y. Machine for treating leaf-tobacco	339,089	Mar. 30	3040	803	34	1497
Ellis, William D., Blaine, Ill. Gate	341,896	May 18	1278	342	35	762
Ellis, William F., New York, N. Y. Book-cutting machine	336,304	Feb. 16	1764	462	34	766
Ellison, Alphonso L., assignor of one-half to F. N. Ingold, Greensborough, N. C. Commode	341,135	May 4	229	68	35	547
Ellison, Charles A., Mineola, N. Y. Two-wheeled vehicle	338,590	Mar. 23	2308	605	34	1362
Ellison, James T., *et al.* (See Shank, Charles A., assignor.)						
Ellison, Robert S., Canton, Ohio. Last	346,273	July 27	2098	540	36	402
Ellrich, Robert C., Southington, Conn. Pipe-cutter	333,618	Jan. 5	158	43	34	32
Ellrich, Robert C., Southington, Conn. Cutting-pliers	341,136	May 4	230	68	35	547
Ells, Bertha J. (See Ells, James E., assignor.)						
Ells, George F., Binghamton, N. Y. Car-coupling	344,955	July 6	215	55	36	40
Ells, James E., assignor to B. J. Ells, Norwalk, Conn. Portable baker's oven	346,365	July 27	2223	570	36	425
Ellsbury, George H., Tower City, Dak. Ter. Grain-separator	339,631	Apr. 13	794	195	35	146
Ellsworth, Herbert R. (See Quartermass and Ellsworth.)						
Elmer, Albert E., Springfield, Mass., assignor to E. E. Garvin & Co., New York, N. Y. Hollow spindle-chuck	347,167	Aug. 10	958	256	36	650
Elmer, William H., and A. P. Boardman, Berlin, Wis. Wood-polishing machine	335,117	Feb. 2	24	7, 8	34	445
Elmore, Benton, Shasta, Cal. Mowing-machine	334,762	Jan. 26	1791	476	34	353
Elmore, Benton, assignor of one-half to F. Grotefend, Redding, Cal. Motor	347,479	Aug. 17	1407	375	36	740

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Elmore, Samuel E., *et al.* (See Williams, William S., assignor.)						
Elstun, Walter S., Colorado Springs, Colo. Sprinkler	345,958	July 20	1659	428	36	311
Elterich, Otto P., assignor of one-half to A. Goertz & Co., Newark, N. J. Combination pocket-tool	343,534	June 8	1113	281	35	1216
Elward, John H., St. Paul, Minn. Drive-chain	345,579	July 13	1115	285	36	206
Elward, John H., assignor, by mesne assignments, to E. S. Brown, receiver, Stillwater, Minn. Spark-arrester	339,538	Apr. 6	626	153	35	113
Elwell, Austin D. (See Bacon, John H., assignor.)						
Elwell, George W., and B. Fay, Danbury, Conn.; said Elwell assignor to said Fay. Hat-sizing machine	344,820	July 6	23	6, 7	36	6
Ely, E. A., *et al.* (See Chamberlain, Marcus W., assignor.)						
Ely, Edward O., Boston, Mass. Staple making machine	351,629	Oct. 26	2223	575	37	425
Ely, Lewellen A., Muir, Mich. Exhibitor for paper-hangings, &c	337,315	Mar. 2	587	154	34	1034
Ely, Lewellen A., Muir, Mich. Exhibitor for wall-papers, borders, and ceiling decorations.	355,067	Dec. 28	2053	539	37	1408
Ely, William H. (See Miller, David L., assignor.)						
Emack, John D. (See Barnes and Emack.)						
Emans, Theodore F., Mendon, Ohio. Clod crusher and pulverizer	339,391	Apr. 6	398	97	35	74
Embry, Barnett L. (See Clayton and Embry.)						
Embury, Helen. (See Booth and Embury.)						
Emden, Victor. (See Josz, César F., assignor.)						
Emenhiser, James W., Berne, Ind. Gearing for operating straw-cutters, chop-grinders, and corn-shellers	344,363	June 29	2274	585	35	1448
Emerick, Fred A., Fulton, N. Y. Shook-binder	348,197	Aug. 31	2459	660	36	949
Emerson, Charles H., Yonkers, N. Y. Metallic shoe for toboggans	353,547	Nov. 30	2565	684	37	971
Emerson, Cyrus J., Jr. (See Lakin and Emerson.)						
Emerson, Francis, *et al.* (See Faires, Joseph J., assignor.)						
Emerson & Fisher Company. (See Ransom, Hiram W., assignor.)						
Emerson, James, Willimansett, assignor of two-thirds to E. A. Thissell, Lowell, Mass.; Dynamometer	346,404	July 27	2281	585 / 586	36	436
Emerson, James C., Barnstead, N. H. Fireproofing compound	344,261	June 22	2127	.....	35	1415
Emerson, James E., Beaver Falls, Pa. Saw-swage	354,114	Dec. 14	679	183	37	1138
Emerson, John W., assignor to himself and C. W. Mills, Opopka, Fla. Rotary engine	334,854	Jan. 26	1905	507	34	374
Emerson, Ralph, *et al.* (See Nelson, J. and A., assignors.)						
Emerson, Richard, assignor of one-half to H. H. Mason, Sycamore, Ill. Harvesting-machine.	349,932	Sept. 28	1910	495 / 496	36	1428
Emerson, Robert R., Pilot Oak, Ky. Churn-motor	334,522	Jan. 19	1461	392	34	284
Emerson, Talcott & Co. (See Jones, James H., assignor.)						
Emerson, Victor H., New York, N. Y. Hand-stamp	334,008	Jan. 12	702	193	34	139
Emert, John W., and R. Hill, Johnstown, Pa. Car-ventilator	342,000	May 18	1405	375	35	784
Emery, Charles G. (See Bastian, Eugene, assignor.)						
Emery-Gates Sectional Ladder and Manufacturing Company of New York. (See Gates, Frank W., assignor.)						
Emery, J. Henry, *et al.* (See Stetson, Charles T., assignor.)						
Emery, J. Herbert, Charlestown, Mass. Crank-pin-lubricating device	344,364	June 29	2276	585	35	1449
Emery, Stephen, Cameron, Mo. Gate	337,674	Mar. 9	1069	276	34	1125
Emley, James E., Weatherford, Tex. Electric motor	344,262	June 22	2128	543	35	1415
Emmert, Ezra, Dixon, Ill. Combined seeder and harrow	345,289	July 13	684	172 / 173	36	129
Emmett, John V. (See Richardson, Charles H., assignor.)						
Emmner, Julius, Washington, D. C. Telephone	346,031	July 20	1767	455	36	329
Emmons, Erastus N., Washington, Kans. Construction of cars for track-laying	350,236	Oct. 5	193	55	37	40
Emmons, Melvin A., Wauseon, Ohio. Flood-gate	334,420	Jan. 19	1320	357 / 358	34	258
Emons, Fowler W., Philadelphia, Pa. Fire-escape	337,940	Mar. 16	1428	370	34	1196
Empire Drill Company. (See Sheldon and Patterson, assignors.)						
Empress Embroiderer Company. (See Chilton, Franklin H., assignor.)						
Emsley, John W., Worcester, Mass. Loom	349,933	Sept. 28	1914	496	36	1428
Emslie, William, Montezuma, Iowa. Ditching-machine	348,624	Sept. 7	127	36	36	1070
En Holm, Oscar A. (See Wallace and En Holm.)						
Endemann, Hermann, Brooklyn, assignor to F. D. Newton, Queens, N. Y. Treating and bleaching rattan	343,896	June 15	1614	.....	35	1315
Endemann, Hermann, Brooklyn, assignor to F. D. Newton, Queens, N. Y. Treating and bleaching rattan	343,897	June 15	1615	.....	35	1316
Endemann, Hermann, Brooklyn, assignor to F. D. Newton, Queens, N. Y. Treating rattan	343,952	June 15	1686	.....	35	1329
Enderes, John P., Pimento, Ind. Wheelbarrow	353,299	Nov. 30	2199	588	37	902
Endicott, George M., Canton, Mass. Playing-card	337,755	Mar. 9	1168	304	34	1142
Endlich, Frederic M., and N. H. Muhlenberg, Lake Valley, N. Mex. Ter. Extracting metals from ores	350,669	Oct. 12	808	.....	37	155
Endlich, Frederic M., and N. H. Muhlenberg, Lake Valley, N. Mex. Ter. Separating products of lixiviation and similar compounds	350,670	Oct. 12	810	.....	37	155
Endres, John J., New York, N. Y. Mechanism for operating cable-car gripping and braking devices	347,781	Aug. 24	1848	492	36	830
Endres, John J., New York, N. Y. Cable-road rail	347,782	Aug. 24	1849	493	36	830
Endres, John J., New York, N. Y. Grip for cable cars	347,783	Aug. 24	1850	493	36	831
Endres, John J., New York, N. Y. Cable railway	347,784	Aug. 24	1852	493	36	831
Endres, John J., New York, N. Y. Cable-lifting mechanism	347,785	Aug. 24	1853	494	36	831
Endres, John J., New York, N. Y. Cable-car grip	349,486	Sept. 21	1363	339	36	1363
Enell, Otto E., assignor to himself and W. S. Stiff, Wabash, Ind. Combination shade, curtain, and lambrequin supporter	349,635	Sept. 21	1495	387	36	1342
Engdall, Gust. (See Barrows, Andrew, assignor.)						
Enge, Ernst, New York, N. Y. Work-bench	350,819	Oct. 12	1019	272	37	192
Engel, William P., and F. Hopkins, Belvidere, Ill. Gate	354,115	Dec. 14	680	183	37	1138
Engelberg, Arthur L., Omaha, Nebr. Horse-detaching device for vehicles	338,049	Mar. 16	1579	411	34	1222
Engelberg, Evaristo C., Piracicaba, São Paulo, Brazil. Machine for hulling rice	341,324	May 4	501	136 / 137	35	595
Engelbert, Henry, Detroit, Mich. Water-back	344,899	July 6	147	37	36	27
Engelbrektson, Andrew, Worcester, Mass. Skate	335,438	Feb. 2	489	127	34	529
Engelhardt, John. (See Schmidt, Christian, assignor.)						
Engelhardt, John H., Jr., Montgomery, Ala. Water-closet-seat protector	347,586	Aug. 17	1554	413	36	768
England, William, Galveston, Tex. Child's carriage	344,309	June 22	2194	563	35	1427
Engle, Stephen D., Hazleton, Pa. Magazine spring-gun	334,575	Jan. 19	1534	410	34	297
Engley, Wetherell & Co. (See Sherman, John E., assignor.)						
English, Andrew J., assignor of one-half to P. Crosley, Cincinnati, Ohio. Carburetor	333,508	Jan. 5	17	6	34	6

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English, Henry R., Jackson, Mo. Hitching device	347,585	Aug. 17	1553	413	36	768
English, James G., New Haven, Conn. Carriage-curtain fastening	337,140	Mar. 2	346	90	34	989
English, John C., New York, N. Y. Gas-burner	335,439	Feb. 2	490	128	34	529
English, William W., Lincoln, Nebr. Door-check	344,821	July 6	25	7	36	6
Engrand, Celestine, Marseilles, France. Grain-silo	349,213	Sept. 14	925	237	36	1222
Enich, Joseph H., Mahanoy City, Pa. Miner's can	344,956	July 6	216	55	36	40
Enkler, Albert, Poughkeepsie, N. Y. Demijohn	348,665	Sept. 7	183	49	36	1080
Ennis, Henry J., assignor to J. E. Talty, Washington, D. C. Electrical ticket-exhibiting machine	352,086	Nov. 2	517	138	37	556
Eno, Joseph A., Newark, N. J. Steam-generator	344,522	June 29	2496	644	35	1488
Enos, Eben F., Magnolia, Mass. Sheet-holder for marine vessels	348,001	Aug. 24	2170	577	36	889
Enos, John A., Peabody, Mass. Driving mechanism for suspended cars	342,246	May 18	1738	461 462	35	847
Enos, Levi S., Andover, N. Y. Door	355,259	Dec. 28	2334	614	37	1465
Enos, Silvanus F., Etna, Ill. Check-row corn-planter	349,636	Sept. 21	1496	387 388	36	1343
Enright, Joseph, San José, Cal. Bridge-wall or fire-arch support	337,941	Mar. 16	1430	371	34	1196
Ensign, Herman L. (See Smith, William T., assignor.)						
Ensign, Theodore W. (See Getchell, Augustus W., assignor.)						
Ensling, Philipp, assignor of one-half to J. Stambly, Norwich, Conn. Head-rest	336,514	Feb. 16	2041	536	34	817
Enslow, Frank B. (See Davis, John V., assignor.)						
Enterprise Manufacturing Company. (See Baker, John G., assignor.)						
Entrekin, William G., Philadelphia, Pa. Photographic-print washer	353,849	Dec. 7	279	73, 74	37	1057
Ents, George W., Washington, D. C. Latch guard attachment for knitting-machines	334,421	Jan. 19	1321	358	34	259
Entwistle, Thomas C. (See Patrick, Frank H., assignor.)						
Entwistle, Thomas C., Melrose, Mass. Warping-machine	346,477	Feb. 16	1996	523	34	809
Entwistle, Thomas C., Lowell, Mass. Mechanism for stripping the flats of carding-machines	340,710	Apr. 27	2306	607	35	431
Entwistle, Thomas C., Lowell, Mass. Expansion-comb for warping, beaming, and other machines	343,801	June 15	1498	377	35	1292
Entwistle, Thomas C., Lowell, Mass. Lease-comb	344,093	June 22	1896	486	35	1373
Entwistle, Thomas C., Lowell, Mass. Drop-wire box for warping, beaming, and other machines	344,365	June 29	2277	586	35	1449
Envall, Gustaf, Stockholm, Sweden, assignor to W. W. Thomas, Jr., Portland, Me. Revolver	352,863	Nov. 16	1565	422 423	37	766
Eppler & Adams Sewing Machine Company. (See Adams, Edwin, assignor.)						
Eppler, Andrew, Jr., Boston, Mass. Boot and shoe nail	334,361	Jan. 12	1239	333	34	237
Eppler, Andrew, Jr., Boston, Mass. Wire-burring machine	334,362	Jan. 12	1239	333	34	237
Eppler, Andrew, Jr., Boston, Mass., assignor to Union Metallic Fastening Company, Jersey City, N. J. Nailing-machine	354,052	Dec. 7	581	157 158 159	37	1112
Eppler, Andrew, Jr., and A. E. Cole, Boston, Mass., assignors to Union Metallic Fastening Company, Jersey City, N. J. Uniting shoe-soles to uppers	354,051	Dec. 7	581	157	37	1111
Eppley, John, York, Pa. Furnace	348,116	Aug. 24	2328	624 625	36	919
Epsteyn, Nathan H. (See Marcus and Epsteyn.)						
Equitable Electric Company. (See Holcombe, Alfred G., assignor.)						
Equitable Electric Company. (See Pendleton, John M., assignor.)						
Erb, Joseph, Columbus, Ohio. Prison	344,644	June 29	2653	687	35	1520
Erber, Gottlob, Indianapolis, Ind. Extension-table	346,903	Aug. 10	585	156	36	581
Erdman, Charles A., Philadelphia, Pa. Boot or shoe	353,740	Dec. 7	124	35	37	1029
Erhard, Georg. (See Wiegard and Erhard.)						
Erhard, Theodor, Stüttgart, Würtemberg, Germany. Galvanic battery	346,032	July 20	1769	455	36	329
Ericksen, John, Albert Lea, Minn. Composition of matter for the manufacture of soap	340,565	Apr. 27	2106	.....	35	398
Erikson, Andrew, Chicago, Ill. Railway-gate	354,403	Dec. 14	1096	294	37	1214
Erkenbrecher Company, A. (See Hovey and Phillips, assignors.)						
Erlander, Frank C., Rockford, Ill. Table-leaf support	338,254	Mar. 23	1855	487	34	1284
Erlanger, Charles, Baltimore, Md. Overalls	337,316	Mar. 2	588	153	34	1035
Ernest, Harry, *et al.* (See Wickizer, Samuel, assignor.)						
Ernest, Lundblad H., Mobile, Ala. Hat-mirror	342,291	May 18	1824	481	35	861
Ernst, Friedrich, San Francisco, Cal. Working copperous silver ores	342,903	June 1	177	.....	35	1038
Ernst, John, Bay City, Mich. Boring-machine	342,688	May 25	2400	636 637	35	975
Ernst, John, assignor to H. W. Simms, Bay City, Mich. Vise	349,032	Sept. 14	680	175	36	1175
Ernst, Victor H., Jersey City, N. J. Tapping-machine	333,937	Jan. 5	603	164 165	34	113
Ernst, Victor H., Jersey City, N. J. Machine for easing the levers of type-writers	335,118	Feb. 2	26	8	34	445
Ernst, Victor H., Jersey City, N. J. Machine for turning irregular forms	349,343	Sept. 21	1082	278	36	1261
Ernst, Victor H., Jersey City, N. J., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Milling-machine	341,437	May 4	641	175 176 177	35	621
Ernst, William H., Chase, Kans. Grain weighing and registering apparatus	354,695	Dec. 21	1532	406	37	1299
Ertel, George, Quincy, Ill. Baling-press	336,305	Feb. 16	1766	462	34	766
Ertel, George, Quincy, Ill. Baling-press	337,567	Mar. 9	943	241	34	1102
Ertel, George, Quincy, Ill. Baling-press	345,889	July 20	1566	404	36	294
Ertel, George, Quincy, Ill. Baling-press	349,934	Sept. 28	1914	496	36	1428
Ertell, William H., New York, N. Y. Clothes-rack	342,954	June 1	255	65	35	1052
Ervin, Dabney L., Crawford, Miss. Car-coupling	354,774	Dec. 21	1645	436	37	1321
Ervin, William, Argentine, Kans. Gage and clamp for weather-boarding, &c	334,363	Jan. 12	1241	334	34	237
Ervin, William, Argentine, Kans. Bracket-clamp for shingling	337,825	Mar. 16	1269	329	34	1167
Erwin, Franklin B., Elkhart, Ind. Apparatus for preparing wood and other fibrous material for conversion into pulp	353,056	Nov. 23	1857	501	37	828
Erwin, J. G. B. (See Pendley, William, assignor.)						
Erwin, James B., Milwaukee, Wis. Hydraulic air-compressor	340,496	Apr. 20	1998	513	35	372
Erwin, John E. (See Johnston, Joseph, assignor.)						
Erwin, John T. (See Ferriott, Charlie L., assignor.)						
Erwin, Lewis C., *et al.* (See Gerber, Charles, assignor.)						
Esborn, Homer, Petaluma, Cal. Animal-exterminator	345,373	July 13	796	200	36	149
Eschauzier, Francis, Albany, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Rubber dam-clamp	343,117	June 1	495	125	35	1095
Eschbach, Francis L., New York, N. Y. Machine for cutting cloth	335,996	Feb. 9	1282	340	34	677
Escherich, Frank X., Buffalo, N. Y. Combined faucet and beer-pump	338,050	Mar. 16	1580	411	34	1222
Eschner, Louis, Philadelphia, Pa. Multiple sewing-machine	340,497	Apr. 20	2000	514	35	372
Eschner, Louis, Philadelphia, Pa. Neck-wear	353,486	Nov. 30	2466	659	37	952

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Eschner, Louis, Philadelphia, Pa. Sewing-machine	353,487	Nov. 30	2467	659 / 660	37	952
Eschwei, Charles, New York, N. Y. Electric cut-out	354,466	Dec. 14	1182	316	37	1229
Eshelman, Benjamin F., Harlan, Iowa. Pencil-holder	341,800	May 11	1140	302	35	728
Eshleman, J. Albert, Philadelphia, Pa. Buckle and neck-wear-band retainer	342,740	May 25	2488	661	35	991
Eskew, Samuel A., Greenville, S. C. Guano-distributer	339,869	Apr. 13	1115	277	35	204
Eskholme, John W., assignor of one-half to E. J. Kiley, Bridgeport, Conn. Check-valve	345,420	July 13	869	216 / 217	36	102
Esp, Andrew, McCune, Kans. Spring-equalizer	348,272	Aug. 31	2564	689	36	968
Espenschied, Charles. (See Allyn, William M., assignor.)						
Espenschied, Charles. (See Blake, Francis H., assignor.)						
Esplin, Charles, Minneapolis, Minn. Nose-guard for saw-mill head-blocks	336,631	Feb. 23	2212	577	34	852
Esplin, Charles, Minneapolis, Minn. Elevator-boot	342,955	June 1	256	65, 66	35	1052
Esplin, Charles, Minneapolis, Minn. Saw-mill set-works	344,306	June 29	2278	586	35	1449
Esplin, Charles, assignor of one-half to Pray Manufacturing Company, Minneapolis, Minn. Band-saw mill	339,539	Apr. 6	627	153	35	114
Esplin, Charles, assignor of one-half to Pray Manufacturing Company, Minneapolis, Minn. Band-saw mill	340,943	Apr. 27	2619	689 / 690	35	487
Esplin, Charles, assignor of one-half to Pray Manufacturing Company, Minneapolis, Minn. Band-saw mill	341,376	May 4	568	157	35	607
Esser, Hermann, Hoboken, N. J. Extension-tripod	347,927	Aug. 24	2066	548	36	870
Essig, Orin A., Canton, Ohio. Plow	332,913	Nov. 23	1640	441	37	790
Estabrook, Aaron T., Raymond, Kans. Remedy for cholera	354,975	Dec. 28	1922	.....	37	1386
Estabrook, Alanson C., assignor to Florence Manufacturing Company, Florence, Mass. Dental-plate brush	335,345	Feb. 2	365	95	34	507
Estabrook, Alanson C., assignor to Florence Manufacturing Company, Florence, Mass. Machine for milling bone blanks for handles	347,699	Aug. 17	1728	461	36	800
Estabrook, Alanson C., assignor to Florence Manufacturing Company, Florence, Mass. Machine for graving brush-handles	347,700	Aug. 17	1730	461 / 462	36	801
Estabrook, Alanson C., assignor to Florence Manufacturing Company, Florence, Mass. Machine for bunching bristles	351,908	Nov. 2	259	72	37	505
Estabrook, Alanson C., assignor to Florence Manufacturing Company, Florence, Mass. Machine for bunching bristles	351,909	Nov. 2	264	73	37	505
Estabrook, Arthur S., Dayton, Ohio. Register-box for hot-air furnaces	343,575	June 15	1188	299	35	1236
Estell, Samuel F., Chicago, Ill. Combined latch and lock	335,064	Jan. 26	2186	581	34	424
Esten, Albert H., Amesbury, Mass. Pipe-cutter	343,233	June 8	671	166	35	1137
Esten, Henry L., and A. Greaves, Pascoag, R. I. Let-off motion for looms	345,627	July 13	1184	304	36	219
Esterly Harvesting Machine Company. (See Vandewater, Joseph, assignor.)						
Esterly, William A., and E. W. Poe, Bowling Green, Ohio. Hand corn-planter	348,387	Aug. 31	2718	730	36	1000
Estes, Herbert. (See Mooney and Estes.)						
Estes, William H., Canton, Miss. Combined cotton chopper, scraper, and cultivator	342,342	May 25	1906	503	35	885
Etchells, Samuel, New Castle, Del. Doubling and twisting machine	342,505	May 25	2156	571	35	928
Ethridge, John H., Paluxy, Tex. Dust-box	347,761	Aug. 17	1735	463	36	801
Ethridge Lasting Machine Company. (See Ethridge, Martin V. B., assignor.)						
Ethridge, Martin V. B., assignor to A. J. Bailey, Boston, Mass. Inking-roller	345,035	July 6	338	85	36	62
Ethridge, Martin V. B., assignor to A. J. Bailey, Boston, Mass. Combined mail-bag fastener and label-holder	345,675	July 20	1266	328	36	241
Ethridge, Martin V. B., assignor to A. J. Bailey, Boston, Mass. Mail-bag fastening	346,149	July 27	1924	497	36	369
Ethridge, Martin V. B., Boston, Mass., assignor to Ethridge Lasting Machine Company, Kittery, Me. Tack-filling machine	335,514	Feb. 2	589	154	34	545
Ethridge, Martin V. B., Boston, Mass., assignor to Ethridge Lasting M chine Company, Kittery, Me. Tack-driving machine	335,515	Feb. 2	590	154	34	545
Ethridge, Martin V. B., Boston, Mass., assignor to Ethridge Lasting Machine Company, Kittery, Me. Tack-driving machine	349,387	Sept. 21	1169	303 / 304	36	1278
Ethridge, Martin V. B., Boston, Mass., assignor of two-thirds to J. Swann, New York, N. Y., and H. E. Waite, West Newton, Mass. Time-piece dial	347,337	Aug. 17	1200	321	36	703
Ethridge, Martin V. B., Boston, Mass., assignor of two-thirds to J. Swann, New York, N. Y., and H. E. Waite, West Newton, Mass. Making spindles for time-piece dials	350,671	Oct. 12	811	220	37	155
Ethridge, Martin V. B., assignor to H. E. Waite, Boston, Mass. Railway-rail-joint fastening	345,421	July 13	871	217	36	162
Ettlin, John, Kansas City, Mo. Window-scaffold	350,924	Oct. 19	1161	308	37	225
Eubanks, Thomas J., assignor of one-half to F. M. Chandler, Rogers, Tex. Cultivator	339,632	Apr. 13	795	195	35	146
Eureka Clothes Wringing Machine Company. (See Stinson, Charles K., assignor.)						
Eureka Light Manufacturing Company. (See Huber, Louis C., assignor.)						
Eureka Patent Glass Mold Company. (See Haley, Jonathan, assignor.)						
Eureka Spindle Company. (See Carroll, William T., assignor.)						
Eureka Spindle Company. (See Carroll, William T., and E. J., assignors.)						
Eureka Spindle Company. (See Chapman, Charles H., assignor.)						
Eureka Tap Valve Company. (See Gillette and King, assignors.)						
Eva, James. (See Anderfuren, William J., assignor.)						
Evans, A. Bradford. (See Bower and Evans.)						
Evans, Abner, Jr., Philadelphia, Pa. Ice-machine	344,310	June 22	2195	564	35	1427
Evans, Austin C., Springfield, Ohio. Harrow	336,906	Mar. 2	36	9	34	933
Evans, Benjamin D., Byhalia, Ohio. Stove-pipe drum	338,145	Mar. 16	1706	445	34	1248
Evans, Cadwallader, *et al.* (See Stubbe, John, assignor.)						
Evans, Daniel W., Sims, Dak. Ter., assignor to himself and S. Heal, Sherman, Ohio. Combined pulverizer and plow	354,507	Dec. 14	1245	333	37	1240
Evans, David, Ansonia, Conn. Wire-nail machine	348,156	Aug. 24	2385	640 / 641	36	930
Evans, David E., Venedocio, Ohio. Folding crate	352,183	Nov. 9	686	183	37	591
Evans, Edward, assignor of one-half to J. H. Whitbread, Quincy, Ill. Pattern for molding stove-lids	337,052	Mar. 2	228	60	34	967
Evans, Ezra B., East Ringgold, Ohio. Motor	354,829	Dec. 21	1718	455	37	1335
Evans, G. Frank, assignor to A. C. Libby, Portland, Me. Die for forging wrench-heads	352,528	Nov. 16	1118	302	37	683
Evans, George A., Brooklyn, N. Y. Inhaler	339,980	Apr. 13	1262	315	35	232
Evans, George T., Buffalo, N. Y. Chair	345,290	July 13	686	173	36	129
Evans, James. (See Galopin and Evans.)						
Evans, John T., Adamsville, Utah Ter. Automatic dumping and discharging apparatus	343,762	June 15	1453	363	35	1283
Evans, Jonathan, *et al.* (See Koelkebeck, Carl W. A., assignor.)						
Evans, Jonathan, Philadelphia, Pa., assignor of one-half to D. H. Burrell, Little Falls, N. Y. Centrifugal liquid-separator	347,702	Aug. 17	1736	463	36	801
Evans, Miles W., New York, N. Y. Watch-case	343,576	June 15	1189	299	35	1236
Evans, Richard A., and A. Turner, Statesville, N. C. Tobacco-package	336,801	Feb. 23	2438	641	34	895

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Evans, Thomas J. (See Bannister, Oliver C., assignor.)						
Evans, Thomas P., Denver, Colo. Car-coupling	339,392	Apr. 6	399	97, 98	35	74
Evans, Thomas R., Philadelphia, Pa. Shoe	338,144	Mar. 16	1706	444	34	1248
Evans, Thomas S., and E. H. Bissett, Winnipeg, Manitoba, Canada. Machine for making stove-pipe elbows	343,631	June 15	1259	316, 317	35	1249
Evans, Warren C., and J. P. Smith, Exeter, N. H. Nailing-machine	350,122	Oct. 5	32	9	37	9
Evans, William, Philadelphia, Pa. Drilling-machine	335,184	Feb. 2	138	35, 36	34	465
Evans, William H., Boston, Mass. Tongs	342,827	June 1	76	19	35	1020
Evans, William M., and J. G. Cordner, Oskaloosa, Iowa. Lubricator	353,671	Dec. 7	23	7	37	1011
Everts, John A., assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Extension lamp-fixture	335,997	Feb. 9	1283	340	34	677
Everding, Edward, Eureka, Cal. Automatic attachment for working ships' pumps	348,956	Sept. 14	570	152	36	1157
Everding, John, and A. v. Olszewski, Newark, N. J. Shoe-fastening	348,727	Sept. 7	263	70	36	1096
Everest & Co., D. O. (See Hunt, Ira J., assignor.)						
Everest, Laban J., Au Sable Forks, N. Y. Machine for cutting sheet metal	352,683	Nov. 16	1335	360, 361	37	722
Everett, Frank M., Washington, D. C. Clamp for holding gun-barrels while being cleaned	355,154	Dec 28	2178	575	37	1433
Everett, George W., New York, N. Y. Weather-strip for windows, &c	349,877	Sept. 28	1846	477	36	1416
Everett, Jacob. (See Hellings and Everett.)						
Everett, Lucius T. (See Hitt, Adrian, assignor.)						
Everett, Robert, assignor of one-half to H. C. Smith, Washington, D. C. Line-guide for fishing-rods	343,802	June 15	1499	377	35	1292
Everitt, James. (See Vero, Charles, assignor.)						
Everitt, Percival, London, England. Weighing-machine	336,042	Feb. 9	1344	355, 356	34	687
Everitt, Percival, London, England. Recorder for weighing-machines	336,043	Feb. 9	1346	356, 357	34	688
Evers, August F., Cleveland, Ohio. Shutter-worker	345,221	July 6	577	147	36	105
Evers, Johannes, New York, N. Y. Chisel-bar for scraping soda-kettles, &c	337,488	Mar. 9	844	214	34	1084
Everson, Carrie J., Chicago, Ill. Concentrating ores	348,157	Aug. 24	2387	.....	36	930
Everson, John Q., Pittsburg, Pa. Ax	352,972	Nov. 23	1723	462	37	804
Everts, Charles, St. Louis, Mo. Wash-board	341,465	May 11	696	186	35	641
Everts, Otto. (See Ruge and Everts.)						
Eves, Frank, Ortonville, Minn., assignor of one-fifth to C. Peterson, Lockport, N. Y. Thrashing-machine	340,498	Apr. 20	2002	514, 515	35	372
Evinger, Noah, Terre Haute, Ind. Corn-husking device	337,141	Mar. 2	347	90	34	990
Evison, Francis, Morenci, Mich. Clod crusher and pulverizer	347,098	Aug. 10	865	229	36	631
Ewan, Evan, Bridgeton, N. J. Hoof cleaner and trimmer	338,146	Mar. 16	1707	445	34	1248
Ewart, Archibald M. (See Palmer and Ewart.)						
Ewart Manufacturing Company. (See Dodge, James M., assignor.)						
Ewert, Otto, Cleveland, Ohio. Vapor-burner	334,166	Jan. 12	944	255	34	182
Ewing Brothers. (See Preston, Richard, assignor.)						
Ewing, Charles W., Ypsilanti, assignor to E. S. Grece, Detroit, Mich. Door-hanger	352,529	Nov. 16	1119	303	37	683
Excelsior Grain Door Company. (See Rogers, Nathaniel P., assignor.)						
Excelsior Needle Company. (See Dayton, William H., assignor.)						
Eynon, James. (See Hughes and Eynon.)						
Eynon, William R., assignor of one-half to J. W. Field, Cleveland, Ohio. Grinding-mill	338,221	Mar. 16	1810	472	34	1267
Eyre, Walter, 167 Ellesmere Road, Sheffield, county of York, England. Making wheels	338,168	Mar. 16	1737	453	34	1254
Eysaman, Adam H., Herkimer, N. Y. Roller-skate wheel	345,422	July 13	872	217	36	162
Faas, Rudolph, assignor of one-half to M. Wineman, Chicago, Ill. Car-axle lubricator	338,051	Mar. 16	1584	412	34	1223
Faas, Rudolph, assignor of one-half to W. Taussig, Chicago, Ill. Car-axle box	352,612	Nov. 16	1231	333	37	703
Faber, Eberhard. (See Mussinan, Oscar, Jr., assignor.)						
Faber, Henri. (See Paulus and Faber.)						
Faber, Otto G., Washington, D. C. Safety attachment for watches, &c	339,870	Apr. 13	1116	277	35	205
Fagan, Michel G., Troy, N. Y. Hydrocarbon-vapor stove	341,739	May 11	1066	283	35	714
Fageley, Warren C., Philadelphia, Pa. Paper bag	349,838	Sept. 28	1798	465	36	1406
Fagerburg, Alfred T., Bloomington, Ill. Revolving sign	346,197	July 27	1988	513	36	381
Fagersten, Lorenzo, assignor of one-half to J. B. Marsh, Chicago, Ill. Apparatus for testing butter	342,865	June 1	126	32	35	1029
Fagersten, Lorenzo, assignor of one-half to J. B. Marsh, Chicago, Ill. Testing factitious butter	344,730	June 29	2761	.....	35	1538
Fahey, Michael, Oakland, Cal. Receptacle attachment for dash-boards	338,833	Mar. 30	2673	703	34	1433
Fahlberg, Constantin, New York, N. Y. Medicated benzoic sulphinide compound	343,803	June 15	1500	.....	35	1293
Fahrney, Andrew, Milledgeville, Ill. Mechanical movement	337,826	Mar. 16	1269	329	34	1167
Fahys Watch Case Company. (See Cook, Henry F., assignor.)						
Fahys Watch Case Company. (See Doerflinger, Chris, assignor.)						
Fair, Eli, Aroma, Ind. Running-gear for vehicles	349,988	Sept. 28	1995	515	36	1443
Fairbairn, Charles, Maybank, Sale, county of Chester, England. Screw-swaging machine	345,959	July 20	1660	428, 429, 430	36	311
Fairbanks, Crawford M., Lincoln, R. I. Machine for cutting files	334,115	Jan. 12	865	237	34	168
Fairbanks, Henry. (See Parker, Howard, assignor.)						
Fairbanks, Henry, St. Johnsbury, Vt., assignor to Feed-Water Heater Company, Portland, Me. Feed-water heater	337,756	Mar. 9	1168	304	34	1142
Fairbanks, Henry, and C. H. Magoon, St. Johnsbury, Vt. Feed-water heater	339,393	Apr. 6	401	98	35	74
Fairbanks, James A., Augusta, Me. Pipe-wrench	340,436	Apr. 20	1906	490	35	355
Fairbanks, John A., Cambridgeport, assignor to E. C. Upton, Boston, Mass. Bridle-bit	348,834	Sept. 7	393	107	36	1120
Fairbanks, Lorenzo S., Boston, Mass. Telephone-receiver	349,375	Sept. 21	1424	368	36	1327
Fairbanks, Thaddens, St. Johnsbury, Vt. Feed-water heater	336,802	Feb. 23	2439	641	34	896
Fairchild, Charles G., Oberlin, Ohio. Process of and apparatus for generating compound gases	352,613	Nov. 16	1233	333	37	703
Fairchild, Frank M., West Derby, Vt. Bench-dog	351,755	Nov. 2	37	10	37	466
Fairchild, John M., assignor to himself and J. O'Conner, Portland, Oreg. Electrical cut-out	340,868	Apr. 27	2521	663, 664	35	470
Fairchild, John M., assignor of one-half to J. O'Connor, Portland, Oreg. Cut-out for electric circuits	348,455	Aug. 31	2817	756	36	1019
Fairchild, John M., and J. O'Connor, Portland, Oreg. Switch for electric circuits	348,456	Aug. 31	2818	757	36	1019
Faires, Joseph J., assignor of two-thirds to F. Emerson and J. R. Cummins, McKinney, Tex. Stalk and weed cutter	333,938	Jan. 5	605	165	34	113
Fairfield, Roswell M. (See Benham, Elijah B., assignor.)						
Fairless, William H., Portsmouth, Va. Lathe-center	333,619	Jan. 5	159	43	34	32
Fairly, John S., Charleston, S. C. Lining for refrigerators	340,869	Apr. 27	2523	664	35	470
Fairman, Charles C., Chicago, Ill. Shutter-worker	343,705	June 15	1364	341	35	1207
Fajen, Gustav, Milwaukee, Wis. Rotary water-meter	343,804	June 15	1501	378	35	1293

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Falcon, Joseph G. and P. E., Chicago, Ill. Rotary pump	346,471	Aug. 3	30	8	36	466
Falcon, Peter E. (See Falcon, Joseph G. and P. E.)						
Falconer, Robert, Rockford, Ill. Fence-wire carriage	349,576	Sept. 21	1425	368	36	1328
Falconnet, Eugene F., assignor of one-half to H. M. Pierce, Nashville, Tenn. Apparatus for the manufacture of iron and steel	338,722	Mar. 30	2512	665	34	1405
Falconnet, Eugene F., assignor of one half to H. M. Pierce, Nashville, Tenn. Manufacturing steel	338,723	Mar. 30	2515	665	34	1405
Fales, Amos, Rockfall, Conn. Variable bench-plane	348,198	Aug. 31	2459	660, 661	36	949
Fales, Edward, St. Louis, Mo. Smoke-consuming furnace	342,080	May 18	1532	409	35	809
Fales, Edward, St. Louis, Mo. Smoke-consuming furnace	342,081	May 18	1534	410	35	809
Fales, Edward, St. Louis, Mo. Device for feeding fuel to furnaces	342,082	May 18	1536	410, 411	35	810
Fales, Edward, St. Louis, Mo. Smoke-consuming furnace	342,083	May 18	1538	411	35	810
Fales, Edward, Chicago, Ill. Furnace for steam-engines and other purposes	342,590	May 25	2262	600	35	949
Faling, Mathew L., Tonawanda, N. Y. Veterinary operating-table	353,057	Nov. 23	1858	502	37	898
Falk, David B., Charleston, S. C. Trousers-stretcher	348,835	Sept. 7	394	107	36	1121
Falk, Eduard, Gilbertville, Iowa. Sulky-plow	338,834	Mar. 30	2675	704	34	1434
Falker, Frank, *et al.* (See Imler, Joseph, assignor.)						
Fall Mountain Paper Company. (See Smith, Richard, assignor.)						
Fallows, James, Philadelphia, Pa. Mechanical toy	346,586	Aug. 3	170	46	36	492
Fallows, James, Philadelphia, Pa. Toy	352,401	Nov. 9	963	258	37	646
Fallows, John T., Denton, county of Lancaster, England Card-clothing for carding-engines	339,394	Apr. 6	403	98	35	75
Falvey, Albert T. (See Fiorentin and Falvey.)						
Fancher, Alton H. and E. W., Canton, Conn. Wagon	350,925	Oct. 19	1163	309	37	226
Fancher, Emery W. (See Fancher, Alton H. and E. W.)						
Fancher, Emery W., Canton, Conn. Machine for coiling helical springs	341,228	May 4	365	100, 101	35	572
Fancher, Emery W., Canton, Conn. Side-bar wagon	341,229	May 4	367	101	35	572
Fancher, James A., West Granby, Conn. Cider-press	341,466	May 11	697	186	35	641
Fanning, Franklin, St. Joseph, Mo. Windmill	344,263	June 22	2129	544	35	1415
Fanning, Franklin, St. Joseph, Mo. Windmill	351,587	Oct. 26	2157	558	37	413
Fanson, William E. (See Benham, Cornelius W., assignor.)						
Fant, Frank, assignor to J. Fant, Joliet, Ill. Bustle	346,436	July 27	2331	600	36	444
Fant, James. (See Fant, Frank, assignor.)						
Fanyo, Frank, and W. H. Wright, Watseka, Ill. Harness	335,440	Feb. 2	492	128	34	530
Farbaky, Stephen, and S. Schenek, Schemnitz, Austria-Hungary. Secondary battery or accumulator	344,957	July 6	217	56	36	40
Farbaky, Stephan, and S. Schenek, Schemnitz, Austria-Hungary. Manufacture of secondary batteries or accumulators	348,625	Sept. 7	129	36	36	1071
Farber, J. Frederick. (See Klippert, Charles, assignor.)						
Farber, Mannasseh W., assignor to himself and J. E. Marshall, El Dorado, Kans. Nut-lock	348,117	Aug. 24	2330	625	36	920
Farbfabriken formerly Brömer. (See Martius, C. Alexander, assignor.)						
Faries, Henry V., Atchison, Kans., and C. D. Wilcox, Indianapolis, Ind. Boiler-cleaner	352,235	Nov. 9	750	201	37	604
Faries, Robert, Decatur, Ill. Anchor for check-row wires	343,305	June 8	775	194	35	1156
Faries, Robert, Decatur, Ill. Check-rower	347,168	Aug. 10	961	256, 257	36	650
Farley, Almer, Coomer, N. Y. Churn	335,802	Feb. 9	1016	269	34	630
Farley, Bernard, San Francisco, Cal. Exercising-machine	337,942	Mar. 16	1431	371	34	1196
Farley, Bernard, San Francisco, Cal. Remedy for dyspepsia	343,660	June 15	1294	.....	35	1255
Farley, John C., Hearne, Tex. Cotton-chopper	338,255	Mar. 23	1856	487, 488	34	1284
Farmer, Henry. (See Henley and Farmer.)						
Farmer, J. Lucco. (See Talbot and Farmer.)						
Farmer, James, Salford, county of Lancaster, England, and A. Lalance, Mulhouse, Germany. Apparatus for washing and dyeing fabrics	345,492	July 13	965	245	36	179
Farmer, James C., *et al.* (See Shaw, Henry F., assignor.)						
Farmer, James C., Providence, R. I., and J. W. White, Dedham, Mass. Car-coupling	344,037	June 22	1812	466	35	1357
Farmer, Moses G., New York, N. Y. Adjustable bed for invalids	335,441	Feb. 2	493	128, 129	34	530
Farmer, Moses G., New York, N. Y. Apparatus for forming sheet-metal by electro-deposition	335,905	Feb. 9	1165	310	34	656
Farmer, Moses G., New York, N. Y. Apparatus for forming wire by electrolysis	338,941	Mar. 30	2819	744	34	1461
Farmer, Moses G., New York, N. Y. Metallic shingle	347,928	Aug. 24	2066	548	36	871
Farmer, Moses G., New York, N. Y. Telegraph system	349,214	Sept. 14	926	237	36	1222
Farmer, Moses G., New York, N. Y. Electro-magnet	351,256	Oct. 19	1639	430	37	313
Farmer, Moses G., New York, N. Y. Telephone-repeater	351,257	Oct. 19	1640	431	37	313
Farmer, Moses G., New York, N. Y. Telephone	351,258	Oct. 19	1642	431	37	313
Farmer, Moses G., New York, N. Y. Mechanical-telephone system	351,588	Oct. 26	2158	558	37	413
Farmers' Friend Manufacturing Company. (See Runstetler, Andrew, assignor.)						
Farnham, E. Wilson, Chicago, Ill. Apparatus for computing proportion	335,906	Feb. 9	1167	310	34	656
Farnham, Elbridge L., Milton Mills, N. H. Bevel	339,633	Apr. 13	796	196	35	146
Farnham, Eunice A. (See Farnham, Frederick W., assignor.)						
Farnham, Frederick W., assignor to E. A. Farnham, White Mills, Pa. Match	335,065	Jan. 26	2189	581	34	425
Farnham, Moses G., Germantown, Cal. Wheel-plow	338,395	Mar. 23	2057	539	34	1319
Farnsworth, Frederick B. (See Kenna, Thomas M., assignor.)						
Farnsworth, George. (See Schmid, Charles, assignor.)						
Farnsworth, Harry M., Cleveland, Ohio, assignor to Union Paper Bag Machine Company, Philadelphia, Pa Paper bag	355,010	Dec. 28	1972	519	37	1393
Farnsworth, Henry T., Richmond, Va. Pulley	343,018	June 1	329	85	35	1067
Farquhar, Arthur B., H. W. Eisenhart, and B. M. Root, York, Pa., assignors to said Farquhar. Fertilizer-distributer	345,580	July 13	1117	285, 286	36	206
Farquhar, Benjamin L., Gratis, Ohio. Wagon-coupling	339,395	Apr. 6	403	98	35	75
Farquhar, William T., Trenton, Ind. Fence-post	345,374	July 13	797	201	36	149
Farquharson, William, Montreal, Quebec, Canada. Instrument for measuring the distance and height of objects	353,127	Nov. 23	1948	522	37	848
Farr, Edward L. (See Rich, Farr, and Bailey.)						
Farr, Hiram G., Boston, Mass. Axle-lubricator	338,052	Mar. 16	1583	412	34	1223
Farr, Hiram G., Boston, assignor of one-half to T. King, Quincy, Mass. Car axle lubricator	348,728	Sept. 7	264	70	36	1097
Farr, Hiram G., Boston, assignor of one-half to T. King, Quincy, Mass. Car-axle lubricator	348,729	Sept. 7	265	71	36	1097
Farr, John W., Marion, Ind. Weather-strip	349,787	Sept. 28	1727	446	36	1391

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Farr, Willis M., Dowagiac, Mich. Sand band for vehicles	336,558	Feb. 23	2104	553	34	834
Farr, Willis M., Dowagiac, Mich. Vehicle seat-lock	338,256	Mar. 23	1857	488	34	1285
Farr, Willis M., Dowagiac, Mich. Sand-band	346,274	July 27	2099	540	36	402
Farrar, A. H., *et al.* (See Chadsey, John N., assignor.)						
Farrar, Arthur, and M. B. Mills, assignors of one-third to G. W. Cass and W. P. Elliott, Chicago, Ill. Gate for railway-crossings	342,689	May 25	2402	637	35	975
Farrar, Benjamin F., San Francisco, Cal. Folding bedstead	339,283	Apr. 6	244	60, 61	35	45
Farrar, John N., New York, N. Y. Dentist's chair	336,220	Feb. 16	1637	427	34	744
Farrar & Trefts. (See Hoffman, William M., assignor.)						
Farrar, William B., assignor of one-half to C. D. Benbow, Greensborough, N. C. Tether	354,404	Dec. 14	1096	294	37	1214
Farrar, William B., and J. J. Thornton, Greensborough, N. C. Tobacco-curing barn	342,591	May 25	2264	{600 601	35	949
Farrel, John, New York, N. Y. Safe for express transportation, &c	346,275	July 27	2100	541	36	402
Farrell, James P., New York, N. Y. Combination-table	342,343	May 25	1907	504	35	885
Farrell, John, St. Louis, Mo. Cooking utensil	343,234	June 8	672	167	35	1137
Farren Brothers Company. (See Homan, Robert W., assignor.)						
Farris, William H., Rock Island, Ill. Steam-generator	349,426	Sept. 21	1219	{316 317	36	1287
Farrow, George W., *et al.* (See Ammon, James W., assignor.)						
Farrow, George W. (See Swinehart, George W., assignor.)						
Farson, Enoch S., Philadelphia, Pa. Refrigerator	337,256	Mar. 2	501	130	34	1019
Farson, Enoch S., Philadelphia, Pa. Cabinet-commode	345,890	July 20	1570	404	36	294
Farwell, Willard B. (See Bouton and Farwell.)						
Fashing, John W., Garnett, Kans. Box or show-case for plug-tobacco	352,614	Nov. 16	1235	333	37	704
Fasoldt, Charles, Albany, N. Y. Microscope	334,009	Jan. 12	703	193	34	140
Fassett, Nelson B., Moline, Ill. Machine for trimming and coupling chain-links	347,338	Aug. 17	1201	{321 322	36	703
Fatic, Henry, Middletown, Ind. Automatic vehicle-brake	341,325	May 4	501	137	35	595
Fatic, Henry, Middletown, Ind. Automatic vehicle-brake	349,033	Sept. 14	681	175	36	1176
Fatkin, James, assignor of one-half to T. O. M. Davis, Winifrede, W. Va. Pipe-wrench	352,530	Nov. 16	1120	303	37	683
Fauber, David and W. H. H., Marshfield, Ind. Revolving extension-table	351,101	Oct. 19	1433	376	37	274
Fauber, W. H. Harry. (See Fauber, David and W. H. H.)						
Faucher, Jules, Lawrence, Mass. Runner for vehicles	341,467	May 11	697	186	35	641
Faught, Luther R., Philadelphia, Pa. Chill for casting car-wheels	341,326	May 4	502	137	35	596
Faulder, Thomas, assignor to C. C. Bradley, Syracuse, N. Y. Tail-board fastening for wagons	346,366	July 27	2224	571	36	426
Faulkner, Densmore R., Cortland, N. Y. Fabric for carriage-tops	350,301	Oct. 5	269	.....	37	55
Faulkner, Elza T. (See Faulkner, James J. and E. T.)						
Faulkner, James J. and E. T., McMinnville, Tenn., assignors of one-third to C. H. Plummer, Jackson, Mich. Flour-bolt	348,199	Aug. 31	2462	661	36	950
Faust, James A., Salt Lake City, Utah Ter. Stove for railway-cars	336,221	Feb. 16	1639	428	34	744
Fauvel, Edmond. (See Barbe, Fauvel, and Chalon.)						
Favel, Charlie A., Oberlin, Ohio. Felt roofing	354,311	Dec. 14	977	260	37	1191
Fawcett, Ezra, Alliance, Ohio. Automatic shaft-governor	349,215	Sept. 14	927	238	36	1222
Fawcett, Samuel. (See Smith and Fawcett.)						
Fawkes, Joseph W., Oak Park, Ill. Advertising apparatus	336,478	Feb. 16	1998	523	34	809
Fay, Alphus, Columbia, Tenn. Quilting-frame for sewing-machines	342,292	May 18	1825	482	35	861
Fay, Alphus, Columbia, Tenn. Fence	353,741	Dec. 7	125	35	37	1030
Fay, Bernard. (See Elwell and Fay.)						
Fay, Charles N., Chicago, Ill. Building and system for laying electric conductors therein	334,763	Jan. 26	1793	477	34	354
Fay, Charles P. (See Bullard, James H., assignor.)						
Fay, Charles P., Springfield, Mass. Rapidly-adjusting nut for calipers and dividers	334,764	Jan. 26	1795	478	34	354
Fay & Co., J. A. (See Passel, George W., assignor.)						
Fay, Daniel A., West Brattleborough, Vt. Folding table	338,835	Mar. 30	2676	704	34	1434
Fay, Fred. E., Bryan, Ohio. Wheelbarrow	354,775	Dec. 21	1648	436	37	1321
Fay, Fred. E., Bryan, Ohio. Wheelbarrow	354,776	Dec. 21	1649	436	37	1321
Fay, Owen, Warren, Pa. Automatic expansible tube for wells	341,327	May 4	503	138	35	596
Fay, Thomas J. (See Upham and Fay.)						
Fay, W. Lamartine, Elyria, Ohio. Wheeled dirt-scraper	334,422	Jan. 19	1322	358	34	259
Fay, W. Lamartine, Elyria, Ohio. Tricycle	343,165	June 8	569	144	35	1119
Fayaux, Augustus L., Philadelphia, Pa. Drum-snare strainer	349,151	Sept. 14	844	216	36	1206
Fearn, Amelia A., Philadelphia, Pa. Life-preserving corset	345,960	July 20	1662	430	36	311
Fearon, Francis, Philadelphia, Pa. Stop-motion mechanism for doubling-machines	349,487	Sept. 21	1304	{339 340	36	1304
F. E. C. Medicine Company. (See Chadwick, Frank E., assignor.)						
Fedderson, Paul L., *et al.* (See Arnold, Alonzo B., assignor.)						
Federmer, Leon P., assignor to himself and A. Brisbois, Leadville, Colo. Hair-tonic	338,942	Mar. 30	2820	.....	34	1461
Federroll, Rudolph, New York, N. Y. Oil-tank	352,914	Nov. 23	1641	441	37	790
Feed-Water Heater Company. (See Fairbanks, Henry, assignor.)						
Feeley, James P. (See Dougherty and Feeley.)						
Feely, Lawrence, assignor of one-half to W. B. Duffy, Rochester, N. Y. Receptacle for carrying beer	338,053	Mar. 16	1584	412	34	1223
Feeney, John J., Amesbury, Mass. Boot or shoe	334,364	Jan. 12	1241	334	34	238
Feeny, George. (See Millar and Feeny.)						
Feeny, Thomas F., Huntley, Ill. Handle for milk-cans	354,630	Dec. 21	1440	382	37	1282
Feerick, James, Nashville, Tenn. Double-acting pump	340,910	Apr. 27	2572	677	35	479
Feger, John, Lenzburg, Ill. Rotary colter	340,301	Apr. 20	1733	441	35	321
Fehn, John E., St. Clair, Pa. Combined blasting-barrel, measuring-rule, and drill-hole scraper	334,765	Jan. 26	1796	478	34	355
Feigel, William, Butler, Pa. Ironing-board	345,676	July 20	1267	328	36	241
Feik, Adam. (See Braun, Theobald, assignor.)						
Fein, Sophia M., Cincinnati, Ohio. Door-mat	345,291	July 13	687	173	36	130
Feister, Henry P., Philadelphia, Pa. Flexible sign	352,684	Nov. 16	1338	361	37	723
Felbel, Jacob, New York, N. Y. Blotter	337,675	Mar. 9	1070	276	34	1125
Felder, John L., Leesburg, Tex. Plow	338,054	Mar. 16	1585	412	34	1223
Feldhaus, Henry B., *et al.* (See Fischer, John, assignor.)						
Feldmann, Alfred, Bremen, Germany. Manufacturing ammonia	337,387	Mar. 9	680	.....	34	1058
Feldmann, Charles H. (See Feldmann and Dunbar.)						
Feldmann, Hermann B., assignor of one-half to S. P. M. Tasker, Philadelphia, Pa. Pulverizing-machine	347,480	Aug. 17	1409	375	36	741
Feldmann, Jakob and C. H., and D. Dunbar, Portland, Oreg. Water-proof composition for felt shoes, slippers, &c	346,150	July 27	1925	.....	36	369
Felldin, Abraham, Ithaca, N. Y. Piano-tuning pin	343,805	June 15	1502	378	35	1293

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fellheimer, Louis. (See Nagle, Ella, assignor.)						
Fellows, Richard C., New York, N. Y. Cement for brush-making and other purposes	342,191	May 18	1665	.....	35	833
Fellows, Richard C., New York, N. Y. Cementing tufts of fibrous material in bored stock for the manufacture of brushes, &c.	342,247	May 18	1739	462	35	848
Fellows, Richard C., New York, N. Y. Manufacture of brush knots or tufts of bristles	342,248	May 18	1740	462	35	848
Fellrath, Charles J., Gatesville, Tex. Vibrating churn	345,961	July 20	1663	430	36	312
Fellrath, Charles J., Gatesville, Tex. Well-bucket	348,118	Aug. 24	2331	625	36	920
Felmlee, John H., Greeley, assignor of one-half to G. C. Norris, Denver, Colo. Sash-holder	335,024	Jan. 26	2127	566	34	414
Felmlee, John H., Greely, assignor of one-half to G. C. Norris, Denver, Colo. Sash-holder	348,273	Aug. 31	2564	689	36	969
Felps, Thomas, Near Kent's Store, La. Cotton-scraper attachment	336,803	Feb. 23	2441	641	34	896
Felsberg, Edward, Montgomery, Pa. Manufacture of leather loop-fastenings	355,068	Dec. 28	2055	540	37	1409
Felsenthal, Gabe, Louisville, Ky. Button	338,055	Mar. 16	1585	413	34	1223
Felt, Frank B., Pullman, Ill. Fagoting metal	352,947	Nov. 23	1687	453	37	798
Felt, John H., Greenfield, Ind. Hay-rake	351,630	Oct. 26	2225	575, 576	37	425
Felten, William F., assignor of one-half to A. Bernier, Merrill, Wis. Drive-well point	352,531	Nov. 16	1121	303	37	683
Felthousen, James D. (See Adams, Felthousen, and Lawtenslager.)						
Felton, Benjamin F., *et al.* (See Hunt, Samuel, assignor.)						
Felton, Benjamin W. (See Walker, Wilbur, and Felton.)						
Felton, Emerson C. (See Brown, Worthington, assignor.)						
Felty, Levi E., and W. Floyd, Homestead, Pa. Heating-furnace	342,904	June 1	178	46	35	1038
Fenner, George P., New London, Conn. Sheet-delivery apparatus for printing-machines	335,066	Jan. 26	2189	581, 582	34	425
Fenner, George P., New London, Conn. Sheet-delivery apparatus for printing-machines	344,731	June 29	2762	715	35	1538
Fenner, George P., New London, Conn. Sheet-delivery apparatus	345,222	July 6	578	147, 148	36	105
Fenner, George P., New London, Conn. Sheet-delivery apparatus for printing-machines	352,402	Nov. 9	964	258, 259	37	646
Fenner, James E., and D. Brunson, Kansas City, Mo. Oat-hulling machine	335,688	Feb. 9	841	223	34	597
Fenner, Richard E. (See Giles and Fenner.)						
Fenner, Richard E., assignor of one-half to J. K. Giles, Chicago, Ill. Electric clock	345,292	July 13	688	173	36	130
Fenner, Sullivan. (See Moore, Samuel, assignor.)						
Fennerty, John M., Memphis, Tenn. Car-window	333,620	Jan. 5	161	43 44	34	32
Fennerty, John M., Washington, D. C. Railway-chair	335,067	Jan. 26	2192	582	34	425
Fennerty, John M., Washington, D. C. Railway-spike	345,423	July 13	873	217	36	162
Fennerty, John M., Washington, D. C. Railway-spike	354,116	Dec. 14	681	183	37	1139
Fennerty, John M., Washington, D. C. Railway-chair	354,117	Dec. 14	682	183, 184	37	1139
Fenning, James, deceased, (S. Fenning, administratrix,) Danbury, Conn. Billiard-cue tip.	343,235	June 8	673	167	35	1137
Fenning, Sarah, administratrix. (See Fenning, James.)						
Fenno, I., *et al.* (See Howe, Patrick, assignor.)						
Fenno, Isaac, Boston, Mass. Horseshoe	353,354	Nov. 30	2274	607	37	915
Fenton, Ephraim H. (See Rams, Tillman, assignor.)						
Fenton, Ephraim H., Kansas City, Mo. Grinding-machine for mower and reaper knives	342,789	June 1	21	6	35	1010
Fenton, John H., Chicago, Ill. Quarter-boot	342,790	June 1	23	7	35	1010
Fenton, John H., Chicago, Ill. Roller-skate	352,743	Nov. 16	1408	381	37	738
Ferchen, Jacob F. (See Swager and Ferchen.)						
Ferchland, Ernst, Brooklyn, N. Y. Fastening for billiard-cue tips	338,724	Mar. 30	2517	666	34	1405
Ferguson, Arthur C., Saratoga, N. Y. Electric lighting apparatus	334,366	Jan. 12	4243	334, 335	34	238
Ferguson, Arthur C., Saratoga Springs, N. Y. Electric lighting apparatus	351,369	Oct. 26	1800	473	37	347
Ferguson, Arthur C., Saratoga, N. Y., assignor, by mesne assignments, to D. R. Noble, Jersey City, N. J. Multiplex electric light	334,365	Jan. 12	1242	334	34	238
Ferguson, Charles W., Janesville, Wis. Car-coupling	345,036	July 6	340	86	36	62
Ferguson, George, Glidden, Iowa. Show-cover for boxes	338,943	Mar. 30	2821	744	34	1461
Ferguson, George J., Greenville, Tex. Car-coupling	343,806	June 15	1503	378	35	1293
Ferguson, George J., Greenville, Tex. Car-coupling	351,756	Nov. 2	39	10, 11	37	466
Ferguson, Hugh, Pittsburg, Pa. Regenerative heating-furnace	349,306	Sept. 21	1041	266	36	1253
Ferguson, James, Bridgewater, Mass. Engine-valve	335,571	Feb. 9	677	178, 179	34	568
Ferguson, James, Bridgewater, Mass. Packing for pistons	336,223	Feb. 16	1641	428, 429	34	745
Ferguson, James, Bridgewater, Mass. Engine-valve	351,857	Nov. 2	186	51, 52	37	493
Ferguson, James F., Burlington, Vt. Coasting apparatus	349,152	Sept. 14	845	216	36	1206
Ferguson, James F., Burlington, Vt. Toboggan	350,123	Oct. 5	35	10	37	9
Ferguson, James H., assignor to Lovejoy, Son & Co., New York, N. Y. Stereotype-shaving machine	335,276	Feb. 2	268	70, 71	34	488
Ferguson, James H., Brooklyn, assignor to Lovejoy, Son & Co., New York, N. Y. Edge-guard for planes	336,222	Feb. 16	1640	428	34	744
Ferguson, James H., Brooklyn, assignor to Lovejoy, Son & Co., New York, N. Y. Machine for bending metal plates	338,944	Mar. 30	2822	745	34	1462
Ferguson, James R. and J., Chester, Conn. Bill-holder	335,907	Feb. 9	1168	311	34	657
Ferguson, John. (See Ferguson, James R. and J.)						
Ferguson, John L. (See Miller, Horace E., assignor.)						
Ferguson, Judah H., Battle Run, Mich. Dumping-wagon	333,844	Jan. 5	476	129	34	88
Ferguson, Sylvester E., Eureka Springs, Ark. Automatic wagon-brake	347,872	Aug. 24	1983	526	36	855
Ferguson, Sylvester E., Eureka Springs, Ark. Corn-harvester	348,730	Sept. 7	266	71, 72	36	1097
Ferguson, William B., Rochester, N. Y. Remedy for skin diseases	338,725	Mar. 30	2517	.....	34	1406
Ferguson, Zuangle R., Excelsior, Mo. Power for converting motion	340,664	Apr. 27	2243	589, 590	35	420
Fernald, Alexander B., and D. T. Lawson, Jersey City, N. J. Apparatus for transferring grain, &c	337,388	Mar. 9	681	178	34	1058
Fernandez y Rabeiro Bernardo, Havana, Cuba. Floor-washer	343,019	June 1	332	85	35	1067
Féron, Arthur C., New York, N. Y. Drawing apparatus	347,099	Aug. 10	866	229	36	632
Ferrel, Alexander, Terrell, Tex. Awning	352,121	Nov. 9	579	155	37	574
Ferrell, Charles B., Linden, W. Va. Planter	354,405	Dec. 14	1098	295	37	1214
Ferrell, Charles M., Utica, N. Y. Car-coupling	349,488	Sept. 21	1306	340	36	1304
Ferrell, George. (See Barley, James H., assignor.)						
Ferriott, Charlie L., assignor to J. T. Erwin, Tehuacana, Tex. Cotton-chopper	339,753	Apr. 13	966	238	35	176
Ferris, Daniel, Boston, Mass. Seal-lock	349,702	Sept. 28	1588	411	36	1367
Ferris, George D., Springfield, Ill. Bicycle	354,777	Dec. 21	1650	436	37	1321
Ferris, Henry L. (See Hunt, Helm, and Ferris.)						
Ferris, Henry L., Harvard, Ill. Windmill-regulator	351,503	Oct. 26	2032	528	37	390
Ferris, Henry L., and N. B. Helm, Harvard, Ill. Wire-stretcher	352,122	Nov. 9	581	155	37	574

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ferris, Hiram R., Cleveland, Ohio. Safety attachment for elevators	337,317	Mar. 2	589	155	34	1035
Ferris, Hudson, assignor of one-fourth to W. C. Garlock, Chicago, Ill. Burglar-alarm	355,260	Dec. 28	2335	614	37	1465
Ferris, James M., *et al.* (See Acheson, Nathan B., assignor.)						
Ferris, John H., and C. M. Kipp, assignor of one-half to J. C. McCann, Chicago, Ill. Embossing plate or die	350,876	Oct. 12	1097	293	37	207
Ferris, Sherwood B., Lakewood, N. J. Flexible button-fastening for corsets or other garments	345,037	July 6	342	86	36	62
Ferron, Exist X., Cornwall, Ontario, Canada. Pool-rack and game-counter	335,689	Feb. 9	842	223	34	508
Fery, Daniel J., Philadelphia, Pa. Printer's quoin	348,119	Aug. 24	2332	626	36	920
Ferry, Dexter M. (See Morrow, George L. K., assignor.)						
Ferry, Edwin R., New Haven, Conn. Sash-fastener	336,100	Feb. 16	1445	381	34	712
Ferry, Edwin R., New Haven, Conn. Combined latch and lock	347,100	Aug. 10	867	229	36	632
Ferry, Edwin R., New Haven, Conn. Sash-lock	347,101	Aug. 10	868	230	36	632
Ferry, William M. (See Kidder and Ferry.)						
Ferry, William M., Park City, Utah Ter. Roll-dressing machine	341,468	May 11	698	187	35	641
Ferry, William M., Park City, Utah Ter. Steam-boiler	341,564	May 11	823	220	35	665
Ferry, William M., Park City, Utah Ter. Feed-water heater for steam-boilers	350,820	Oct. 12	1020	273	37	192
Fesca, Albert, Berlin, Germany. Manufacturing sugar bars and plates	334,855	Jan. 26	1906	508	34	375
Fesler, William R., Columbiana, Ohio. Music-leaf turner	352,310	Nov. 9	851	229	37	622
Fetter, Samuel, Ephrata, Pa. Pinch-bar	354,778	Dec. 21	1651	437	37	1322
Fetters, Gustav, *et al.* (See Kees, Herman, assignor.)						
Feuerstein, Leopold, Chicago, Ill. Clock	352,309	Nov. 9	850	229	37	622
Feusier, Joseph, *et al.* (See Fleharty, George A., assignor.)						
Fevrot, Claude M., Lyons, France, assignor to Wanner & Fevrot, St. Paul, Minn. Apparatus for compressing air	336,224	Feb. 16	1642	429	34	745
Fey, Charles, Brooklyn, N. Y. Apparatus for the manufacture of malt	345,128	July 6	453	117	36	83
Fiberlene Collar Company. (See Butterworth, Robert, assignor.)						
Fiberlene Collar Company. (See March, George N., assignor.)						
Fichtner, Sebald, Milwaukee, Wis. Net for horses	354,406	Dec. 14	1099	295	37	1214
Field, Albert D., New York, N. Y. Curtain-pole ring	337,053	Mar. 2	229	61	34	967
Field, Edwin S. (See Hindley and Field.)						
Field, George L., Detroit, Mich. Dental flexible support	354,976	Dec. 28	1922	508	37	1386
Field, Hiram, Smithville, Ontario, assignor to himself and J. H. Smith, North Grimsby, Canada. Pump	338,147	Mar. 16	1708	445	34	1248
Field, Homer H., assignor of one-fourth to J. T. Henderson, Council Bluffs, Iowa. Door or blind	343,807	June 15	1505	379	35	1293
Field, James, Russell's Flat, Malvern, Canterbury, New Zealand. Knife-blade attachment for slate-frames	354,544	Dec. 21	1304	347	37	1258
Field, James W. (See Eynon, William R., assignor.)						
Field, John S., Chicago, Ill. Slush-remover from ice-elevators	337,318	Mar. 2	591	155	34	1035
Field, Martin S., Racine, Wis. Feed-cutter	346,151	July 27	1926	497	36	369
Field, Martin S., Racine, Wis. Seed-sower	350,821	Oct. 12	1022	273 274	37	193
Field, Millard F., Chelsea, assignor, by mesne assignments, to American Spindle Company, Boston, Mass. Loom-shuttle	343,577	June 15	1191	299	35	1236
Field, Millard F., Chelsea, assignor, by mesne assignments, to American Spindle Company, Boston, Mass. Loom-shuttle	343,578	June 15	1192	299	35	1236
Field, Millard F., Chelsea, assignor, by mesne assignments, to American Spindle Company, Boston, Mass. Loom-shuttle	343,579	June 15	1193	300	35	1237
Field, Millard F., Chelsea, assignor to G. W. Linscott, trustee, Boston, Mass. Let-off device for delivery-rolls	345,677	July 20	1269	328 329	36	241
Field, Stephen D., Yonkers, N. Y. Multiple telegraphy	353,128	Nov. 23	1952	523	37	848
Field, Stephen D., assignor to Commercial Telegram Company, New York, N. Y. Printing-telegraph	338,343	Mar. 23	1977	521	34	1305
Field, Stephen D., assignor to Commercial Telegram Company, New York, N. Y. Printing-telegraph	338,344	Mar. 23	1978	521	34	1306
Field, Stephen D., assignor to Western Union Telegraph Company, New York, N. Y. Dynamo-telegraphy	343,953	June 15	1687	432	35	1329
Field, William H., *et al.* (See Lane, William J., assignor.)						
Fielden, John. (See Petrie and Fielden.)						
Fielding, John. (See Tweddell, Platt, and Fielding.)						
Fielding, John, Gloucester, county of Gloucester, England. Valve-gear for duplex engines	334,576	Jan. 19	1536	411	34	298
Fielding, Richard. (See Rose, George W., assignor.)						
Fields, Charles A., Minneapolis, Minn. Head-light screen	343,632	June 15	1261	317	35	1249
Fieweger, Julius, Menasha, Wis. Bob-sled	347,786	Aug. 24	1854	494	36	832
Fifield, Charles S., Revere, Mass. Machine for stamping soles of boots and shoes	342,192	May 18	1666	444	35	834
Fifield, Charles S., Revere, Mass. Leather-matching machine	342,193	May 18	1667	445	35	834
Fifield, Henry O., *et al.* (See Johnston, William, assignor.)						
Fifield, John W. D., North Brookfield, assignor to A. H. Batcheller, Boston, Mass. Machine for turning boots or shoes	347,233	Aug. 10	1044	279	36	665
Fifield, Levi W., Worcester, Mass. Book-binding attachment	338,726	Mar. 30	2318	666 667	34	1406
Fifield, Levi W., assignor to Knowles Loom Works, Worcester, Mass. Shuttle for tape-looms	351,259	Oct. 19	1644	432	37	314
Figg, John C., Barry, Ill. Buggy-bed	349,577	Sept. 21	1426	368	36	1328
Figueiredo, Francisco D., *et al.* (See Morrell, Augustine, assignor.)						
File, William F., Topeka, Kans., assignor of one-half to C. S. Sheffield. Newspaper-file	349,637	Sept. 21	1498	388	36	1343
Fillebrown, Luther W., Piqua, Ohio, and F. B Chandler, Wayne, Me. Invalid-bedstead	335,218	Feb. 2	193	51	34	475
Fillmore, Charles W., Marengo, Ill. Vehicle-hub	335,442	Feb. 2	495	129	34	530
Fillmore, John H., *et al.* (See Ourdan, Vincent L., assignor.)						
Filson, Harris, *et al.* (See Durand, Jean B., assignor.)						
Filson, Harris, *et al.* (See Retornat, Ernest, assignor.)						
Filson, Hiram G., New Cumberland, W. Va. Flour chest and sifter	351,504	Oct. 26	2036	528	37	391
Finch, Charles H. (See Campbell and Finch.)						
Finch, Henry, Manistee, Mich. Rowlock	338,345	Mar. 23	1979	521	34	1306
Finch, Henry C., Oil City, Pa. Machine for breaking submerged rock	339,090	Mar. 30	3041	803 804	34	1497
Finch, James H., Boston, Mass. Device for cleaning gas-burners	342,592	May 25	2266	601	35	949
Finch, Reuben R., assignor to Union Stove Works, Peekskill, N. Y. Hot-air furnace	345,293	July 13	691	174	36	130
Finch, Thomas F. N., Worcester, county of Worcester, England. Manufacture of buttons and other analogous articles	345,962	July 20	1664	430	36	312
Finck, Julius, assignor to Will & Finck, San Francisco, Cal. Electric gas-lighting apparatus	341,565	May 11	826	221	35	666

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Finck, Julius, assignor to Will & Finck, San Francisco, Cal. Automatic electric gas-lighter	341,566	May 11	829	221	35	667
Finck, Nicholas, Elizabeth, N. J. Carburetor for enriching gas	351,858	Nov. 2	188	52	37	493
Findley, Laurel, Homer, Mich. Pulverizer	342,593	May 25	2266	601	35	949
Finger, Gilbert H. (See Halsted, David F., assignor.)						
Fink, Alexander. (See Bernstein and Goldstein, assignors.)						
Fink, Catharine, Baltimore, Md. Lubricating compound	335,443	Feb. 2	497	.....	34	530
Fink, Conrad, St. Louis, Mo. Smoke-consumer	341,897	May 18	1279	342	35	762
Fink, Henry, Newark, N. J. Feed-bag for horses	347,929	Aug. 24	2067	549	36	871
Fink, John M., *et al.* (See Fischer, John, assignor.)						
Finke, Joseph, Berlin, Germany. Preserving cereals	348,320	Aug. 31	2626	708	36	982
Finkelson, Andrew. (See Hendryx, Samuel V., assignor.)						
Finkelstein, Berthold, Lindenau, Saxony, Germany. Mordanting	352,236	Nov. 9	751	.....	37	604
Finkensieper, Charles, *et al.* (See Lindner, Ferdinand, assignor.)						
Finlay, George W., Clark, Ohio. Sheep-shearing rack	341,377	May 4	570	157	35	608
Finlayson, Alexander W. (See Bryant, Finlayson, and Couls.)						
Finley, John A., Vanceborough, Me. Combined square, level, and bevel	339,158	Apr. 6	57	18	35	14
Finley, Nathaniel, *et al.* (See Randles, Spencer C., assignor.)						
Finn, William H., Oswego, N. Y. Circular sawing machine	346,097	July 27	1847	477	36	354
Finnegan, John, and J. H. Alexander, Philadelphia, Pa. Meat-hook	342,194	May 18	1668	445	35	834
Finneran, Charles C., assignor of three-fourths to O. G. Tuttle, M. J. Wilson, and W. C. Reed, Painesville, Ohio. Machine for coiling metal strips	333,509	Jan. 5	20	6	34	6
Finney, James J., Junction City, Tex. Buggy-top support	334,856	Jan. 26	1909	508	34	375
Finney, Joseph R., Pittsburg, assignor of one-half to T. B. Kerr, Allegheny, Pa. Electrical conductor	346,990	Aug. 10	694	184	36	601
Fire Extinguisher Manufacturing Company. (See Greenleaf, Abner, assignor.)						
Fire Extinguisher Manufacturing Company. (See Steck, Ernst F., assignor.)						
Firm, Joseph L., Jersey City, N. J. Combined printing and folding machine	341,740	May 11	1067	283, 284	35	714
Firman, Leroy B., assignor to E. B. Chandler, A. Doyle, and J. P. Barrett, Chicago, Ill. Police telegraphic and telephonic signal system	340,203	Apr. 20	1588	401, 402	35	296
Firnstein, George A., New York, N. Y. Portable catafalque and bier combined	352,915	Nov. 23	1642	441	37	791
Firth, Priestley. (See Benn and Firth.)						
Fischel, Daniel C., Troy, N. Y. Parasol or umbrella	334,368	Jan. 12	1245	335	34	238
Fischer, August, assignor of one-half to J. F. Potts, White Hall, Ill. Striking mechanism for clocks	336,995	Mar. 2	150	41	34	952
Fischer, August, Winchester, assignor of one-half to J. F. Potts, White Hall, Ill. Striking mechanism for clocks	336,996	Mar. 2	151	41	34	953
Fischer, Carl G., Schloss Holte Brackwede, near Bielefeld, Westphalia, Germany. Apparatus for setting type	348,836	Sept. 7	395	107	36	1121
Fischer, Christian N. (See Hansen and Fischer.)						
Fischer, Frederick J. W., Jersey City, N. J., assignor to Eagle Pencil Company, New York, N. Y. Pencil or crayon holder	335,908	Feb. 9	1169	311	34	657
Fischer, Frederick J. W., Jersey City, N. J., assignor to Eagle Pencil Company, New York, N. Y. Lead or crayon holder	336,044	Feb. 9	1348	357	34	688
Fischer, Henry, New York, N. Y. Steam rock-drill	336,401	Feb. 16	1894	496	34	791
Fischer, John, Louisville, Ky. Shaft-tug	345,038	July 6	343	86	36	62
Fischer, John, Louisville, Ky. Harness-loop	345,039	July 6	343	86	36	63
Fischer, John, assignor of one-half to J. M. Fink and H. B. Feldhaus, Louisville, Ky. Trace-buckle	343,118	June 1	495	125, 126	35	1095
Fischer, Joseph B. (See Long and Fischer.)						
Fischer, Joseph B., assignor, by mesne assignments, to said Fischer, J. E. Campbell, and J. C. Smith, Hamilton, Ohio. Ice-lowering apparatus	342,433	May 25	2042	539	35	908
Fischer, Julius, Washington, D. C. Expansible life-boat	348,158	Aug. 24	2390	641	36	930
Fischer, Sigfried M. (See Street, John W., assignor.)						
Fischer, Therese R., Baltimore, Md. Dress-form	347,930	Aug. 24	2068	549	36	871
Fischer, Wilhelm M., Alexandria, Va. Cork-fastener	345,963	July 20	1665	431	36	312
Fischer, William. (See Birck and Fischer.)						
Fish, Burton M., Hamburg, N. Y. Necktie-fastener	338,257	Mar. 23	1858	488	34	1285
Fish, Burton M., Buffalo, N. Y. Necktie-fastener	342,195	May 18	1669	446	35	834
Fish, Burton M., Buffalo, N. Y. Necktie-fastener	343,236	June 8	673	167	35	1137
Fish, Clark D., Ansonia, Conn. Combined machine for printers' use	351,830	Nov. 2	136	38, 39	37	484
Fish, John A., St. John, New Brunswick, Canada. Water-heating apparatus	351,859	Nov. 2	190	53	37	493
Fish, John R., Grand Rapids, Mich. Locomotive-spring	355,069	Dec. 28	2055	540	37	1409
Fish, Philip F. (See Guillaume and Fish.)						
Fish, Samuel H., Hinsdale, Ill. Bill and letter file	351,168	Oct. 19	1522	399	37	292
Fish, Warren L., Newark, N. J. Bicycle-saddle	345,424	July 13	874	218	36	162
Fish, William H., and E. E. Dehon, Brockton, Mass. Odorless excavator	345,425	July 13	877	218	36	163
Fisher, Alvin L., New Brunswick, N. J., assignor to Overman Wheel Company, Boston, Mass. Oiler	350,124	Oct. 5	36	10	37	9
Fisher, Anson F., assignor of two-thirds to A. Henry and A. M. Barley, Chico, Cal. Oscillating gas-meter	349,489	Sept. 21	1307	340	36	1304
Fisher, Charles H., *et al.* (See Lawrence, Alvin, assignor.)						
Fisher, Charles H., Lowell, Mass. Atomizer	350,822	Oct. 12	1024	274	37	194
Fisher, Charles H., Lowell, Mass. Journal and bearing	352,403	Nov. 9	966	259	37	646
Fisher, Clark, Trenton, N. J. Rail-joint	341,567	May 11	832	222	35	668
Fisher, Clark, Trenton, N. J. Rail-joint	351,169	Oct. 19	1523	399	37	292
Fisher & Co., S. E. (See Lenau, Gustavus, assignor.)						
Fisher, Edda A. (See Fisher, William N. and E. A.)						
Fisher, Elias R. (See Meeker and Fisher.)						
Fisher, Emery, Cordaville, Mass. Impalement-trap for house-breakers	355,070	Dec. 28	2056	540	37	1409
Fisher, Ernest G. (See Needles and Fisher.)						
Fisher, Frank E., Detroit, Mich. Electric motor	335,998	Feb. 9	1284	340	34	677
Fisher, Frank E., Detroit, Mich. Magneto-electric bell	335,999	Feb. 9	1285	341	34	677
Fisher, Frank E., Detroit, Mich. Magneto-electric machine	336,000	Feb. 9	1286	341	34	677
Fisher, Frank E., Detroit, Mich. Annunciator	336,001	Feb. 9	1287	341	34	678
Fisher, Frank E., Detroit, Mich. Telephone call-bell system	336,002	Feb. 9	1288	342	34	678
Fisher, Frank E., Detroit, Mich. Push-button	336,003	Feb. 9	1291	343	34	678
Fisher, Frank E., Detroit, Mich. Electric clock system	336,004	Feb. 9	1291	343, 344	34	678
Fisher, Frank E., Detroit, Mich. Mechanism for extracting steel and iron fragments from grain	336,402	Feb. 16	1895	496	34	791
Fisher, Frank E., Detroit, Mich. Electric motor or generator	350,728	Oct. 12	888	238	37	169

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Name, residence, and invention.	No.	Date.	Monetary volume. Spec.	Monetary volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fisher, Frank E., assignor to Merchants Store Railway Company, Detroit, Mich. Cash-carrier propelling mechanism	334,649	Jan. 19	1639	438	34	317
Fisher, George W., assignor of one-half to Fulton Iron Works, St. Louis, Mo. Bagasse-burner	340,302	Apr. 20	1733	441	35	322
Fisher, Harvey L., Toledo, Iowa. Weighing-scale	335,909	Feb. 9	1171	311	34	657
Fisher, Henry. (See Prentiss, Stone, and Fisher.)						
Fisher, Henry, Canton, Ohio. Rake	349,703	Sept. 28	1590	411	36	1367
Fisher, J. Harmanus, Baltimore, Md. Fly and mosquito net	348,388	Aug. 31	2719	730	36	1000
Fisher, Jacob P. (See Haentges and Fisher.)						
Fisher, James S. (See Powell, Howard, assignor.)						
Fisher, John J. (See Haught and Fisher.)						
Fisher, John R., and L. T. Knobnoster, assignors to themselves, J. C. and A. P. Winkler, C. Cobb, G. Hardey, and A. E. Vest, Johnson County, Mo. Duplex propeller-pump	338,148	Mar. 16	1710	445, 446	34	1248
Fisher, Leander T. (See Fisher, John R. and L. T.)						
Fisher, Lewis W., Rockville, Ind. Portable fence	334,577	Jan. 19	1537	411	34	298
Fisher, Peter, Oak Creek, Wis. Feed-chain for feed-cutters	334,367	Jan. 12	1244	335	34	238
Fisher, Stephen J., Packerton, Ind. Land-roller	340,437	Apr. 20	1907	490	35	355
Fisher, Willett, Homer, N. Y. Bob-sled	336,632	Feb. 23	2213	577	34	852
Fisher, William, *et al.* (See Harris, Richard G., assignor.)						
Fisher, William C., Boston, Mass. Locking and releasing mechanism for locks	347,029	Aug. 10	755	201	36	612
Fisher, William H., Cincinnati, Ohio. Cartridge-shell holder	339,396	Apr. 6	404	99	35	75
Fisher, William N. and E. A., Xenia, Ind. Kitchen-cabinet	338,836	Mar. 30	2677	704	34	1434
Fisk, Asa S., Binghamton, N. Y. Combined truck and bag-holder	341,741	May 11	1069	284	35	715
Fisk, Clark & Flagg. (See Heath, Henry, assignor.)						
Fiske, Henry G., Springfield, Mass. Necktie-fastener	340,993	May 4	32	8	35	511
Fiske, Henry G., assignor of one-half to A. K. Patton, Jr., Springfield, Mass. Razor-guard	333,736	Jan. 5	334	91	34	62
Fiske, Henry P., assignor, by mesne assignments, to C. F. Copeland, Boston, and G. W. Daniels, Somerville, Mass., trustees. Box	344,367	June 29	2282	587	35	1450
Fiske, Henry P., assignor, by mesne assignments, to C. F. Copeland, Boston, and G. W. Daniels, Somerville, Mass., trustees. Bed for paper-cutting dies	344,822	July 6	25	7	36	7
Fiske, Joseph W., New York, N. Y. Chute for feed-mangers	341,505	Oct. 26	2036	529	37	391
Fiske, Samuel, New York, N. Y. Boiler-furnace	342,434	May 25	2043	539	35	909
Fitch, E. T., *et al.* (See Hubbard, George M., assignor.)						
Fitch, Eugene, Des Moines, Iowa. Type-writing machine	345,836	July 20	1491	386, 387	36	280
Fitch, Franklin. (See Hills, Justin, assignor.)						
Fitch, Frederick K. (See Cardwell and Fitch.)						
Fitch, Frederick K., *et al.* (See Cardwell, George A., assignor.)						
Fitch, Horace A., New York, N. Y. Apparatus for aging spirituous liquors, wines, &c	334,222	Jan. 12	1037	276	34	201
Fitch, Nathan T., Wilmington, Del. Grinding-mill	345,493	July 13	966	245	36	179
Fitch, Nathan T., Chicago, Ill. Insulator	349,788	Sept. 28	1728	446	36	1391
Fitch, W. & E. T. (See Bristol, Charles B., assignor.)						
Fitch, W. & E. T. (See Hubbard, George M., assignor.)						
Fitch, William L., Portland, Me. Apparatus for use in teaching music	355,261	Dec. 28	2335	614, 615	37	1465
Fite, John S., *et al.* (See Waterhouse, George C., assignor.)						
Fitts, Abraham, Worcester, Mass. Telescoping hydraulic elevator	344,038	June 22	1814	466	35	1358
Fitts, Isaac, Nashua, N. H. Rod-cutter	338,396	Mar. 23	2059	540	34	1319
Fitz Gerald, A. Ogden, Newark, N. J. Shipping-can	345,223	July 6	581	148	36	105
Fitz Gerald, A. Ogden, Newark, N. J. Shipping-can	345,224	July 6	582	148	36	106
Fitz Gerald, A. Ogden, Newark, N. J. Can-valve	346,033	July 20	1770	455	36	329
Fitz Gerald, Walter H., Brooklyn, N. Y. Making watch-case stems	338,500	Mar. 23	2200	575, 576	34	1345
Fitz Gerald, Walter H., Brooklyn, N. Y. Die for making watch-case stems	338,501	Mar. 23	2201	576, 577	34	1345
Fitz Gerald, Walter H., Brooklyn, N. Y. Die for making watch-case stems	338,502	Mar. 23	2202	577	34	1345
Fitz Gerald, Walter H., Brooklyn, N. Y. Watch-case stem	338,503	Mar. 23	2203	577	34	1345
Fitz Gerald, Walter H., Brooklyn, N. Y. Stem winding and setting mechanism for watches	338,945	Mar. 30	2824	745	34	1462
Fitz Gerald, Walter H., Brooklyn, N. Y. Stem winding and setting watch	338,947	Mar. 30	2829	746	34	1463
Fitz Gerald, Walter H., Brooklyn, N. Y. Manufacture of crowns for watch-cases	353,929	Dec. 7	398	105, 106	37	1080
Fitz Gerald, Walter H., Brooklyn, N. Y. Manufacture of watch-case centers	353,930	Dec. 7	400	106, 107	37	1080
Fitz Gerald, Walter H., Brooklyn, N. Y. Manufacture of crowns for watch-cases	353,931	Dec. 7	401	107	37	1080
Fitz Gerald, Walter H., Brooklyn, N. Y. Manufacture of watch-cases	353,932	Dec. 7	403	108	37	1081
Fitz Gerald, Walter H., Brooklyn, N. Y. Watch case center	353,933	Dec. 7	404	108	37	1081
Fitz Gerald, Walter H., Brooklyn, N. Y., and E. A. Marsh, West Newton, Mass. Stem winding and setting watch	338,946	Mar. 30	2827	746	34	1462
Fitz Gerald, William F., Norfolk, Va. Desk attachment	345,040	July 6	344	87	36	63
Fitz Gerald, William N. (See Patton, Guerin, and Fitz Gerald.)						
Fitzgerald, Patrick J., Haverhill, Mass. Uniting pieces of leather	352,404	Nov. 9	968	259	37	647
Fitzgerald, William, Boston, Mass. Grate	343,447	June 8	1003	250	35	1196
Fitzgibbons, Patrick, Oswego, N. Y. Tube-expander	343,020	June 1	333	85	35	1068
Fitzgibbons, Patrick, Oswego, N. Y. Steam-boiler	354,467	Dec. 14	1183	317	37	1229
Fitzhugh, Benjamin G., Baltimore, Md. Dumping-cart	345,225	July 6	584	148, 149	36	106
Fitzhugh, Benjamin G., Frederick, assignor to V. Gaddess, Baltimore, Md. Blacking-brush	338,504	Mar. 23	2203	578	34	1345
Fitzhugh, Charles L. (See Dean, Zadok W., assignor.)						
Fitzhugh, Charles L. (See Young, William D., assignor.)						
Fitzhugh, Henry A. (See McComas and Fitzhugh.)						
Fitzhugh, Henry H. (See McComas and Fitzhugh.)						
Fitzhugh, Jacob R., Unionville, N. J. Hand-cart	342,905	June 1	179	46	35	1038
Fitzpatrick, Daniel. (See Brady and Fitzpatrick.)						
Fitzpatrick, Daniel. (See Worn, Frank, assignor.)						
Fitzpatrick, Thomas J., Monticello, Ohio. Weather strip	336,907	Mar. 2	36	9	34	933
Fix, Albert S. (See Fix, Thomas and A. S.)						
Fix, Thomas and A. S., Reading, Pa. Newspaper-clip	346,904	Aug. 10	586	156	36	581
Fixary, Edouard, Paris, France. Packing piston-rods of refrigerating-machines	345,041	July 6	345	87	36	63
Flach, Arthur B., assignor, by mesne assignments, to T. L. Flach, New York, N. Y. Adjustable and balancing seesaw	335,346	Feb. 2	366	95	34	507
Flach, Theresa L. (See Flach, Arthur B., assignor.)						
Flagg, Elisha, New York, N. Y. Rivet	337,142	Mar. 2	348	90	34	990
Flagg, Elisha, assignor of one-half to J. L. Porter, New York, N. Y. Glove-fastening	342,196	May 18	1670	446	35	834

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Flagg, G. H. P., trustee. (See Bradford, Charles K., assignor.)						
Flagg, George C., Columbus, Ill. Draft-equalizer	336,708	Feb. 23	2319	607	34	874
Flagg, George H. P. (See Cov. Frederick W., assignor.)						
Flagg, George H. P. (See Fullerton, George A., assignor.)						
Flagg, George H. P., trustee. (See Helms, Charles H., assignor.)						
Flagg, J. Walter, Worcester, Mass. Automatic cash-carrier	348,957	Sept. 14	572	152	36	1158
Flagg, Joseph W., and C. R. B. Claflin, Jr., Worcester, Mass.; said Claflin assignor to said Flagg. Cash-carrier	351,506	Oct. 26	2038	529	37	391
Flajole, John A., Bay City, Mich. Valve for fusible safety-plugs	340,994	May 4	33	9	35	512
Flammang, Nicolas. (See Schneider, Trenkamp, and Flammang.)						
Flanagan, William, Chicago, Ill. Refrigerator-car	344,039	June 22	1816	466, 467	35	1358
Flanagan, William L. (See Pigeon and Flanagan.)						
Flanders, Brown S., Boston, Mass., assignor to Tooker Fire Alarm Improvement Company, Chicago, Ill. Door for signal-boxes and similar apparatus	346,847	Aug. 3	490	135, 136	36	556
Flanders, Moses J., assignor of one-half to H. W. Getman, Ilion, N. Y. Wrench	342,197	May 18	1671	446	35	834
Flanigan, John R., and W. E. Harrison, assignors to Fort Madison Chair Company and said John R. Flanigan, Fort Madison, Iowa. Knockdown chair	347,339	Aug. 17	1206	322	36	704
Flatau, Louis S., Pittsburg, Tex. Seed-planter	334,223	Jan. 12	1038	276	34	201
Flatau, Louis S., Pittsburg, Tex. Garden-tile	342,690	May 25	2404	638	35	975
Flatau, Louis S., Pittsburg, Tex. Seed-planter	352,813	Nov. 16	1503	405	37	755
Fleck, Joseph V., assignor to himself, J. W. Appling, J. A. Elliott, and C. A. Smith, Lebanon, Mo. Clothes-drier	350,237	Oct. 5	194	55	37	40
Fleckinger, Joseph, Allegheny, Pa. Apparatus for protecting safes and vaults	350,823	Oct. 12	1026	274	37	194
Fleeming, John G. W., Emerson, Iowa. Stove-hood or heat-collector	336,559	Feb. 23	2104	554	34	834
Fleetwood, Henry, *et al.* (See Hanlon, Joseph P. A., assignor.)						
Flegle, Martin, Minneapolis, Minn. Covering for steam-pipes	348,958	Sept. 14	574	.....	36	1158
Flegle, Martin, Minneapolis, Minn. Covering for steam-pipes, boilers, &c.	348,959	Sept. 14	574	152	36	1158
Fleharty, George A., assignor to J. Feusier, Cleveland, F. K. Hurxthal, Canton, Ohio, and S. L. Boggs, Pittsburg, Pa. Intermittingly-acting tension	345,581	July 13	1119	286	36	207
Fleisher, B. W., *et al.* (See Alexander, Charles F., assignor.)						
Fleisher, M., *et al.* (See Alexander, Charles F., assignor.)						
Fleisher, M. F., *et al.* (See Alexander, Charles F., assignor.)						
Fleisher, S. B., *et al.* (See Alexander, Charles F., assignor.)						
Fleming, James, Troy, assignor of one-half to H. M. Dougrey, Lansingburg, N. Y. Apparatus for brushing and shaping sand cores	334,423	Jan. 19	1325	358	34	259
Fleming, James A. (See Young, Robert W., assignor.)						
Fleming, James P. and W. D., Arbor Hill, Iowa. Band-cutter and feeder for thrashing-machines	343,021	June 1	334	86	35	1068
Fleming Manufacturing Company. (See Lathrop, Elias, assignor.)						
Fleming, Robert, Buffalo, N. Y. Lubricator	355,155	Dec. 28	2180	575	37	1434
Fleming, Silas W., Steubenville, Ohio. Medical compound	347,759	Aug. 17	1811	.....	36	815
Fleming, Thomas G., Hanover, Ohio. Stanchion	349,578	Sept. 21	1427	369	36	1328
Fleming, William D. (See Fleming, James P. and W. D.)						
Flemmings, Robert F., Jr., assignor of one-fourth to C. L. Sprague, Melrose, Mass. Guitar	338,727	Mar. 30	2521	667	34	1406
Flenniken, Benjamin F. (See Carrington, John T., assignor.)						
Flershein, Lemuel H. (See Potter, James, assignor.)						
Flesher, Henry, St. Louis, Mo. Mop-wringer	337,676	Mar. 9	1071	276	34	1125
Fleshiem, Joseph, *et al.* (See Johnston, William, assignor.)						
Fletcher, Augustus, assignor to himself and R. E. Carter, Jr., Hazleton, Pa. Condenser	336,306	Feb. 16	1767	462	34	766
Fletcher, Benjamin L., Cincinnati, Ohio. Wire-fence machine	339,159	Apr. 6	58	18	35	14
Fletcher, Benjamin L., and S. C. Tatum, Jr., Cincinnati, Ohio. Wire-fence machine	354,118	Dec. 14	683	184	37	1139
Fletcher, Charles A. (See Ball and Fletcher.)						
Fletcher, D. Horace, Chicago, Ill. Cabinet desk	341,100	May 4	171	53, 54, 55	35	536
Fletcher, Daniel C., Grand Rapids, Mich. Folding ironing-table	337,389	Mar. 9	683	178	34	1058
Fletcher, Frank A. (See Joint, Fletcher, and Gibbs.)						
Fletcher, George, Litchurch, county of Derby, England. Centrifugal machine	335,690	Feb. 9	844	223	34	598
Fletcher, George, Brooklyn, N. Y. Car-brake	339,284	Apr. 6	246	61	35	46
Fletcher, John M., Concord, N. H. Adjustable fountain-spittoon	349,704	Sept. 28	1591	411	36	1368
Fletcher, Walter. (See Silver and Fletcher.)						
Flewellen, Anthony, Sr., Brenham, Tex. Combined cotton chopper and cultivator	342,691	May 25	2405	638	35	976
Flewwelling, Gilford, and G. J. Harris, Hampton, New Brunswick, Canada. Making matches	335,516	Feb. 2	593	154	34	546
Flexible Flooring Company, A. & H. (See Adams and Hasson, assignors.)						
Fliegel, Josef. (See Püttmann and Fliegel.)						
Flieger, Andrew, Portland, Oreg. Pants-hanger	351,102	Oct. 19	1435	376	37	275
Flindall, John, Morgan Park, Ill. Railway-rail joint	341,412	May 4	617	169	35	617
Flinn, John, Cleveland, Ohio. Ease-rocking chair	345,678	July 20	1270	329	36	241
Flinn Mercurial Regulator Company. (See Flinn, Richard J., assignor.)						
Flinn, Patrick J., Boston, Mass. Pressure and vacuum mercurial regulator	354,119	Dec. 14	685	184	37	1139
Flinn, Richard J., Boston, Mass., assignor to Flinn Mercurial Regulator Company, Portland, Me. Mercurial regulator for dampers, &c.	354,120	Dec. 14	686	185	37	1140
Flinn, Richard J., Boston, Mass., assignor to Flinn Mercurial Regulator Company, Portland, Me. Mercurial regulator for dampers, &c.	354,121	Dec. 14	690	185	37	1140
Flinn, Richard J., Boston, Mass., assignor to Flinn Mercurial Regulator Company, Portland, Me. Apparatus for opening and closing dampers	354,312	Dec. 14	978	260	37	1191
Flinn, Thomas F., Brooklyn, N. Y. Differential hoisting-machine	348,200	Aug. 31	2463	662	36	950
Flint, Benjamin F., assignor of one-half to A. D. Smith, Cincinnati, Ohio. Clock	354,122	Dec. 14	692	185	37	1140
Flint, Charles D. (See Pye and Flint.)						
Flint, Eber C., Saginaw, Mich. Gate-hinge	345,294	July 13	692	174	36	130
Flint, Edwin H., Cincinnati, Ohio. Safe-lock	338,505	Mar. 23	2204	578, 579	34	1345
Flint, Jarvis M., Thayer, Kans. Device for converting motion	337,568	Mar. 9	945	241	34	1102
Flint, Marietta, New York, N. Y. Bouquet-holder	337,569	Mar. 9	946	242	34	1102
Flint, William W., assignor to Chicago Stamping Company, Chicago, Ill. Folding lunch-box	335,119	Feb. 2	27	8, 9	34	445
Flocke, Robert, Newark, N. J., assignor to R. Neumann & Co., New York, N. Y. Bag, satchel, &c.	339,052	Mar. 30	2989	791	34	1489
Flodqvist, Carl W., Gothenburg, Sweden. Boiler or vessel lined with lead for use in treatment of fibrous substances	348,457	Aug. 31	2819	757	36	1019
Flohr, Otto, Newark, N. J. Friction-clutch	351,370	Oct. 26	1802	474	37	348
Flomerfelt, Jacob, Peapack, N. J. Marking and furrowing machine	345,042	July 6	346	87	36	63

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Flora, Perry C., Eaton, Ohio. Machine for building combined paling and wire fences	339,397	Apr. 6	405	99	35	75
Florence Machine Company. (See Goodell, Dexter W., assignor.)						
Florence Machine Company. (See Goodell and Kyle, assignors.)						
Florence Manufacturing Company. (See Estabrook, Alanson C., assignor.)						
Florentin, Eugene M., and A. T. Falvey, Taunton, Mass. Self-fastening skate	340,773	Apr. 27	2393	631	35	447
Florsheim, Elizabeth, *et al.* (See Gardner, Marshall, assignor.)						
Florsheim, Elizabeth, *et al.* (See Stone, James, assignor.)						
Florsheim, Elizabeth, *et al.* (See Stone and Gardner, assignors.)						
Florsheim, Simon, Chicago, Ill. Lacing-stud	345,494	July 13	969	245	36	180
Flower, Alonzo M., *et al.* (See Beales, Emanuel D., assignor.)						
Flower, Samuel A., and P. Ross, Jersey City, N. J. Dust-shield for car-axle boxes	342,742	May 25	2490	661	35	991
Flowers, Andrew B., Montgomery, Ala. Cotton-press	353,784	Dec. 7	180	49.50	37	1040
Flowers, Andrew J. and M. I., Springfield, Mo. Motor	349,638	Sept. 21	1499	388	36	1343
Flowers, Malon I. (See Flowers, Andrew J. and M. I.)						
Floyd, Alexander P. (See Brandes, Henry H., assignor.)						
Floyd, Charles A., Eastbourn, county of Sussex, England. Hansom-cab	333,845	Jan. 5	477	129	34	88
Floyd, James R. (See Nock, George W., assignor.)						
Floyd, John, and E. J. McCrossin, assignors one-third to P. McCrossin, Lynchburg, Va.) Cigarette-machine	342,344	May 25	1908	504, 505, 506	35	885
Floyd, William. (See Felty and Floyd.)						
Fluette, John B., Lewiston, Me. Nut-lock	341,469	May 11	700	187	35	642
Flynn, James J., assignor of one-half to T. Noonan, Chicago, Ill. Steam-heating apparatus	344,645	June 29	2654	687	35	1520
Flynn, James W., New York, N. Y. Ornamental nail-head	354,123	Dec. 14	694	185	37	1141
Flynn, John F., Bordentown, N. J. Cross-tie	345,837	July 20	1495	387	36	280
Flynn, John T., Millville, Mass. Boot-tree	340,566	Apr. 27	2107	542	35	398
Flynn, William S. (See Clarke and Flynn.)						
Foerster, Charles, Philadelphia, Pa. Dental plugger	352,456	Nov. 9	1032	278	37	659
Foerster, Emanuel, New York, N. Y. Mold for casting teeth for diamond saws	340,204	Apr. 20	1589	402	35	296
Foerster, Emanuel, New York, N. Y. Machine for sawing stone	340,205	Apr. 20	1590	402, 403	35	296
Foerster, Emanuel, New York, N. Y. Stone-sawing machine	350,191	Oct. 5	131	38	37	28
Fogarty, Patrick, Milwaukee, Wis. Fire-escape	339,871	Apr. 13	1117	278	35	205
Fogg, Frederick M. (See Moss, John, assignor.)						
Fogle, Henry E., Cawker City, Kans. Washing-machine	351,170	Oct. 19	1525	399, 400	37	292
Fogleson, Shiller. (See McMurray, Terpany, and Fogleson.)						
Fogleson, Schiller, and J. B. Mouser, Marion, Ohio. Twine-cutter	347,234	Aug. 10	1045	279	36	665
Foglesong, Washington, Dayton, Ohio. Collar-stuffing machine	349,034	Sept. 14	683	176	36	1176
Foglesong, Washington, Dayton, Ohio. Horse-collar-stuffing machine	349,035	Sept. 14	684	176	36	1176
Foley, James B. (See Holdsworth and Foley.)						
Foley, James S., Chicago, Ill. Pedal-cover for organs	345,129	July 6	454	118	36	83
Folkes, Park D., Hays' Landing, Miss. Hoe-sharpener	339,398	Apr. 6	407	99	35	76
Follansbee, George S., Boston, Mass. Piston water-meter	354,124	Dec. 14	695	186	37	1141
Follansbee, George S., Charlestown, assignor to Hopedale Machine Company, Hopedale, Mass. Stop mechanism for warping-machines	343,119	June 1	496	126	35	1096
Follett, Charles H. (See Dowling, Robert H., assignor.)						
Follett, David, Weedsport, N. Y. Wrench	334,010	Jan. 12	704	194	34	140
Follett, William H., assignor of one-third to H. A. Potteiger, Steelton, Pa. Plant for casting ingots	343,954	June 15	1688	433	35	1329
Folliott, Elmer. (See Burnett and Folliott.)						
Folsom, Alfred I. (See Garrett, Jackson B., assignor.)						
Folsom, Nehemiah T., Boston, Mass. Dust-pan	351,316	Oct. 19	1723	453	37	328
Fondersmith, Henderson, assignor of one-half to J. C. Wilson, Philadelphia, Pa. Conduit for electric conductors	344,732	June 29	2764	716	35	1539
Fonerden, Clarence A., and H. Bell, New York, N. Y. Insect-powder gun	337,943	Mar. 16	1433	371	34	1197
Fones, Civilion. (See Merritt, James D., assignor.)						
Fontaine, Allen S., New York, N. Y. Speaking-tube	336,479	Feb. 16	2000	524	34	809
Fontaine, Eugene, Wagon Works, Ohio. Railway-crossing	355,156	Dec. 28	2180	575	37	1434
Foos, John. (See Rein, Bernard, assignor.)						
Foos Manufacturing Company. (See Winchell, James F., assignor.)						
Foote, Augustus R. S., Washington, D. C. Combined spatula and electric mouth-illuminator	339,754	Apr. 13	967	238	35	176
Foote, Charles B., *et al.* (See Rew, Richard A., assignor.)						
Foote, E. Brainerd, *et al.* (See Eddington, Frank G., assignor.)						
Foote, Edward H., Somerville, Mass. Bicycle	334,578	Jan. 19	1538	411	34	298
Foote, Frank M., Ceresco, Mich. Car-coupling	346,034	July 20	1771	456	36	329
Foote, Henry R., New York, N. Y. Grain-drier	333,939	Jan. 5	605	165	34	113
Foote, Theodore M. (See Grant, Goodspeed, and Foote.)						
Forbes, Alston J., assignor of one-half to V. H. Henderson, Campbell, Tex. Railway nut-wrench	336,908	Mar. 2	37	10	34	934
Forbes, George. (See Timmis and Forbes.)						
Forbes, George, London, county of Middlesex, England. Dynamo-electric machine	338,169	Mar. 16	1737	453, 454	34	1254
Forbes, Jesse P., Coshocton, Ohio. Steam-generator	345,375	July 13	798	201	36	149
Forbes, John S., Philadelphia, Pa. Cable-grip	345,495	July 13	971	246	36	180
Forbes, Robert, Downieville, Cal. Pulverizing-mill	342,506	May 25	2158	571	35	928
Forbes & Son, R. W. (See Pickles, George M., assignor.)						
Forbes, William A., *et al.* (See Kellogg, William H., assignor.)						
Forbis, Arthur F., McLeansville, N. C. Tobacco-drier	337,677	Mar. 9	1071	276	34	1125
Force, James B., Portville, N. Y. Car-coupling	349,153	Sept. 14	846	216	36	1206
Forchheimer, Paul, New York, N. Y. Shaving-cup	345,295	July 13	693	174	36	130
Ford, Alfred, assignor of one-half to J. A. Archer, London, England. Material applicable as a waterproof covering for roofs, &c.	342,345	May 25	1917	.....	35	887
Ford, Archibald, San Francisco, California. Gas-regulator	348,389	Aug. 31	2720	731	36	1000
Ford, Frederic G., Philadelphia, Pa. Milk-pail	353,213	Nov. 23	2078	555	37	873
Ford, George A., Cleveland, Ohio. Tackle-block	350,238	Oct. 5	195	56	37	41
Ford, George T., *et al.* (See Currier, Charles M., assignor.)						
Ford, James H. (See Gray, Robert D., assignor.)						
Ford, Jesse S., Ohio County, and P. Rarick, Owensborough, Ky. Water-elevator and carrier	343,808	June 15	1505	379	35	1294
Ford, Jesse S., Ohio County, and P. Rarick, Owensborough, Ky. Water-elevator and carrier	353,214	Nov. 23	2079	555	37	873
Ford, Johnson P., Frazier, Cal. Pump	338,591	Mar. 23	2309	605	34	1363
Ford, Joseph R. (See Price, George W., assignor.)						
Ford, Joseph S., Philadelphia, Pa. Lamp	338,728	Mar. 30	2525	667	34	1407

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ford, Luke R., *et al.* (See O'Riordan, James, assignor.)						
Ford, Pierce, Tucson, Ariz. Ter. Tea-kettle	342,293	May 18	1825	482	35	861
Ford, Simeon J., assignor of one-half to B. G. Parlow and A. Melton, Placerville, Cal. Car-coupling	352,744	Nov. 16	1410	381	37	738
Ford, Thomas. (See Bardo and Ford.)						
Ford, Thomas J., Geneva, Ohio. Combined change-receptacle and satchel or bag	341,898	May 18	1281	342	35	763
Ford, Thomas J., assignor of one-half to F. S. Turner, Geneva, Ohio. Oven for vapor-stoves	337,757	Mar. 9	1170	305	34	1142
Ford, William, Brooklyn, N. Y. Smoke-bell attachment	341,899	May 18	1282	343	35	763
Forder, Milton. (See McCollom and Forder.)						
Forderer, Joseph F., San Francisco, Cal. Skylight	334,650	Jan 19	1640	438	34	317
Forderer, Joseph F., San Francisco, Cal. Skylight	334,651	Jan. 19	1642	438	34	318
Fore, Robert F. (See Miner and Fore.)						
Forehand, Sullivan. (See Howe, John C., assignor.)						
Foreman, Ebenezer M., assignor of one-half to J. W. Keyhoe, Fairmount, Ill. Wagon-stake	336,847	Feb. 23	2501	659	34	907
Foreman, George V. (See Card, William J., assignor.)						
Foreman, Lydie K. (See Foreman, Milton, assignor.)						
Foreman, Milton, assignor to L. K. Foreman, Philadelphia, Pa. Steam generator and superheater	338,222	Mar. 16	1811	472	34	1267
Foreman, Samuel E., and F. T. Walls, Randolph, Kans. Churn	348,002	Aug. 24	2171	577	36	889
Forest City Carbon Manufacturing Company. (See Pfannkuche, Alfred, assignor.)						
Forg, Peter, Somerville, Mass. Mirror-hinge	334,944	Jan. 26	2014	536	34	395
Forgie, John, Hicksville, N. Y. Propeller for vessels	341,137	May 4	231	69	35	547
Forman, Francis M., Otisco, Mich. Purifying and hardening copper and copper alloys	352,615	Nov. 16	1236	.....	37	704
Forman, Sands, Gold Hill, Nev. Railway-car signal	334,766	Jan. 26	1797	478	34	355
Forman, Sands, Gold Hill, Nev. Car-signal	353,785	Dec. 7	182	50	37	1040
Forney, Matthias N., New York, N. Y. Furnace-door	354,631	Dec. 21	1441	{382 / 383}	37	1282
Forrest, John. (See McCaffrey, James, assignor.)						
Forrest, William E. (See Dowd, Daniel L., assignor.)						
Forrest, William H., *et al.* (See Thomson, John T., assignor.)						
Forrest, William R. (See Van Brocklin, John W., assignor.)						
Forrest, William W., assignor of one-half to G. S. Hensel and S. B. Colladay, Philadelphia, Pa. Grate-bar	349,639	Sept. 21	1500	389	36	1343
Forsaith Electrical Machine Company. (See Jones, Lucian B., assignor.)						
Forsaith Electrical Machine Company. (See Whitney, Edwin R., assignor.)						
Forsberg, John C., Willmar, Minn. Street-reflector	343,237	June 8	674	167	35	1137
Forshaw, Joseph. (See Forshaw, Nathan and J.)						
Forshaw, Nathan and J., St. Louis, Mo. Steam culinary vessel	340,995	May 4	34	9	35	512
Forshee, Thomas J., Brownsburg, Ind. Cutting apparatus for mowers and reapers	350,456	Oct. 5	491	138	37	94
Forster, Albert G. (See Forster, Ferdinand E., assignor.)						
Forster, Ferdinand E., New York, N. Y. Nursing-bottle	335,347	Feb. 2	367	96	34	507
Forster, Ferdinand E., assignor to himself and A. G. Forster, New York, N. Y. Snell for fishing	337,944	Mar. 16	1434	372	34	1197
Forster, Ferdinand E., assignor to himself and A. G. Forster, New York, N. Y. Apparatus for laying snells	345,496	July 13	972	246	36	181
Forster, Francis B., New York, N. Y. Apparatus for manufacturing illuminating and heating gas	354,185	Dec. 14	797	211	37	1159
Forstner, Benjamin, assignor of one-half to J. Walton, Salem, Oreg. Auger	336,709	Feb. 23	2319	607	34	874
Forsyth, Charles S., Philadelphia, Pa. Insulating-coupling for combined electric-light and gas fixtures	350,355	Oct. 5	339	97	37	69
Forsyth, Joseph, Pittsburg, Pa. Rotary engine	335,120	Feb. 2	28	9	34	446
Forsyth, Joseph, Pittsburg, Pa. Rotary steam-engine	335,121	Feb. 2	29	9	34	446
Forsyth, Joseph, Pittsburg, Pa. Rotary steam-engine	335,122	Feb. 2	31	9	34	446
Fort Dodge Gypsum-Stucco Company. (See Marsh, Edward W., assignor.)						
Fort Madison Chair Company. (See Flanigan and Harrison, assignors.)						
Fort Wayne Electric Light Company. (See Jenney, James A., assignor.)						
Forth, John F., Nottingham, England. Tobacco-pipe cleaner	347,169	Aug. 10	962	257	36	630
Fortier, Charles L. (See Johnson and Fortier.)						
Forwood, Lorin C., Shipman, Ill. Reversing mechanism for engines	353,850	Dec. 7	280	74	37	1058
Fosburgh, Calvin E., Brooklyn, N. Y. Parasol, &c	344,094	June 22	1897	486	35	1373
Foss, Byron E., Indianapolis, Ind. Piston-rod and valve-stem packing	351,695	Oct. 26	2308	599	37	442
Foss, Horatio G., Auburn, Me. Leather splitting and skiving machine	343,238	June 8	675	168	35	1138
Foss, Leonard P., Kalamazoo, Mich. Feed-water regulator	336,307	Feb. 16	1768	463	34	767
Foss, Zachariah, Washington, Mo. Composition for coating corn-cob pipes	352,814	Nov. 16	1505	405	37	754
Foster, Benjamin O., Mansfield, Ohio. Suspenders	354,779	Dec. 21	1652	437	37	1322
Foster, Caleb R. (See Walk and Foster.)						
Foster, Charles H. (See Gilman, Frost, and Foster.)						
Foster, Charles H., Omaha, Nebr. Well-bucket bottom	348,960	Sept. 14	575	153	36	1159
Foster, Charles H. W., Brookline, Mass. Apparatus for sifting sugar	350,532	Oct. 12	663	167	37	117
Foster, Charles H. W., Brookline, assignor of one-fourth to D. M. Weston, Boston, Mass Filtering sugar liquors, sirups, and saccharine juices	353,404	Nov. 30	2372	627	37	930
Foster, Don P., Waltham, Mass. Pipe-wrench	339,634	Apr. 13	797	196	35	146
Foster, Ezra H., Fairmont, Minn. Door-sill	351,260	Oct. 19	1645	432	37	314
Foster, Frank F., Mount Pleasant, Mich. Velocipede-sleigh	343,898	June 15	1616	411	35	1416
Foster, Frederick, Elizabeth, N. J. Safe-deposit vault	347,267	Aug. 10	1090	291	36	673
Foster, George J., Alameda, Cal. Cartridge-loading machine	343,706	June 15	1365	{341 / 342}	35	1267
Foster, Gilbert S., Concord, N. H. Barrel-hoop machine	346,035	July 20	1772	456	36	329
Foster, J. R., *et al.* (See Simmons, John E., assignor.)						
Foster, John D., Fulton, N. Y. Meat-tenderer	338,258	Mar. 23	1859	488	34	1285
Foster, John M. (See Babcock, Charles, assignor.)						
Foster, John M., Philadelphia, Pa. Buoy or beacon	355,157	Dec. 28	2182	{555 / 556}	37	1434
Foster, John M., Philadelphia, Pa. Gas-burner	355,158	Dec. 28	2184	{556 / 557}	37	1435
Foster, John W., Central Falls, assignor to himself and J. T. Wilmarth, Pawtucket, R. I. Stop-motion for spooling-machines	335,572	Feb. 9	679	179	34	569
Foster, Joseph S., Salem, Mass. Lamp-chimney fastening	350,125	Oct. 5	37	10	37	10
Foster, Lawson, Duncan, S. C. Cultivator	353,742	Dec. 7	126	35	37	1030
Foster, Oliver S., Mount Vernon, Iowa. Honey-box case and clamp	347,143	Mar. 2	348	90	34	990
Foster, Oscar S. and W. S., Utica, N. Y. Furniture-spring	343,022	June 1	335	86	35	1068
Foster, Walter K., Stoneham, Mass. Erasive guard for writing-pencils	342,956	June 1	258	66	35	1053
Foster, William B., Derby, Kans. Car-coupling	345,582	July 13	1120	2-6	36	207

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Foster, William S. (See Foster, Oscar S. and W. S.)						
Fothergill, John, W. and I. Briggs, Jr., Wakefield, county of York, England. Apparatus for stopping engines	354,468	Dec. 14	1185	317 318	37	1230
Fottrell, John, Philadelphia, Pa. Composition of matter for the electrical insulation of wires covered with cotton, silk, or worsted braid or tape	344,823	July 6	26	.....	36	7
Fougeadoire, Auguste, Paris, France. Apparatus for enlarging and reducing drawings	333,737	Jan. 5	335	91	34	63
Foulk, Frank F., West Earle, Pa. Nut-lock	354,696	Dec. 21	1534	407	37	1300
Foulkes, William and W. E., Morrisania, N. Y. Filter	352,644	Nov. 16	1276	344	37	711
Foulkes, William E. (See Foulkes, William and W. E.)						
Foulks, John W., Brooklyn, N. Y. Roll for forming toe-calks	335,910	Feb. 9	1172	311	34	657
Foulon, Peter J., New York, N. Y. Self-lubricating hub	348,961	Sept. 14	576	153	36	1159
Fountain, Henry S., Marlin, Tex. Wash-boiler	350,356	Oct. 5	340	97	37	69
Fountain, Jerome, La Grande, Oreg. Tape-measure	353,851	Dec. 7	281	74	37	1058
Fourcault, Emile, and E. Jacques, Dampremy, Belgium. Regenerative gas-furnace	347,703	Aug. 17	1738	463 464	36	802
Fournet, Aristide M. A., London, England. Optometer	343,899	June 15	1617	412	35	1316
Foushee, Charles W., Jr. (See Saxton, Thomas G., assignor.)						
Fouts, David W., assignor of one-half to A. B. and J. E. Standiford, Chrisman, Ill. Plug-cutter	341,646	May 11	938	249	35	689
Fowkes, Alfred, assignor to Haines, Jones & Cadbury, Philadelphia, Pa. Sink-bracket	343,633	June 15	1262	318	35	1250
Fowle, William B., Newton, Mass. Metallic thermometer	333,738	Jan. 5	338	92	34	63
Fowler, Alfred B., Exeter, N. H., assignor to Rockingham Machine Company. Burnishing and trimming machine	352,864	Nov. 16	1566	423 424	37	767
Fowler, Charles S., Lake City, Minn. Fire and water proof paint	344,177	June 22	2013	.....	35	1394
Fowler, Charles W., and E. H. Shelman, Brandenburg, Ky. Hand-grenade	347,587	Aug. 17	1555	413	36	768
Fowler, Edward H., Buffalo, N. Y. Kitchen-cabinet	340,944	Apr. 27	2620	690	35	488
Fowler, Forman F., assignor of one-half to M. V. B. Waldorf, Wolcott, N. Y. Seat-spring for wagons	334,425	Jan. 19	1327	359	34	260
Fowler, Frank G., Bridgeport, Conn. Preparing feed-water for steam-boilers	346,198	July 27	1989	513	36	382
Fowler, Frederick A., New Haven, Conn. Cutting flexible material into pieces having beveled edges	349,388	Sept. 21	1171	303	36	1278
Fowler, George B., Brooklyn, assignor of one-half to A. Peck and W. I. Snyder, New York, N. Y. Hand-grip tester	344,095	June 22	1899	486	35	1374
Fowler, George H., Tanghannock Falls, N. Y. Sulky-plow	334,424	Jan. 19	1326	359	34	259
Fowler, Green L., Clarksburg, Mo. Nut-lock	339,982	Apr. 13	1265	315	35	232
Fowler, Herbert E., assignor to Winchester Repeating Arms Company, New Haven, Conn. Finishing cartridge-shells	350,729	Oct. 12	889	238	37	169
Fowler, Hervey W., Chicago, Ill. Railway-spike	345,628	July 13	1186	304	36	219
Fowler, Hervey W., Chicago, Ill. Machine for rolling car-wheels	351,430	Oct. 26	1917	499 500	37	367
Fowler, Hervey W., Chicago, Ill. Cast-steel car-wheel	351,431	Oct. 26	1920	500	37	368
Fowler, James. (See Burns, Akeroyd, and Fowler.)						
Fowler, James L., *et al.* (See Littlefield, Charles W., assignor.)						
Fowler, John W., Brooklyn, N. Y. Carcycle box	335,691	Feb. 9	845	224	34	598
Fowler, Joseph, *et al.* (See McMillan, John L., assignor.)						
Fowler, Joseph C., Washington, D. C., assignor to J. Boyle, trustee, St. Louis, Mo. Car-coupling	338,635	Mar. 23	2373	625	34	1374
Fowler, Robert F., assignor of one-half to C. A. Rex, Canton, Ohio. Clothes-line reel and house	337,758	Mar. 9	1171	305	34	1142
Fowler, Thaddeus. (See Mower and Fowler.)						
Fowler, Thaddeus, Shelton, Conn. Continuous nail-wire	341,413	May 4	618	169	35	617
Fowler, Thaddeus, Shelton, Conn. Die for making nail-wire	341,414	May 4	618	169	35	617
Fowler, Thaddeus, Shelton, assignor of one-half to T. B. De Forest, Birmingham, Conn. Nail-driving machine	345,679	July 20	1270	329	36	241
Fowler, Thaddeus, Shelton, assignor of one-half to T. B. De Forest, Birmingham, Conn. Nail-driving apparatus	345,680	July 20	1272	329	36	241
Fowler, Thaddeus, Shelton, assignor of one-half to T. B. De Forest, Birmingham, Conn. Wire-nail machine	350,357	Oct. 5	340	97, 98	37	69
Fowler, William, Philadelphia, Pa., assignor to Keystone Watch Case Company. Watch-case spring	345,226	July 6	585	149	36	106
Fowler, William R., Lafayette, Ind. Milk-cooler	334,767	Jan. 26	1798	478	34	355
Fowler, William R., Lafayette, Ind. Milk-cooler	345,776	July 20	1411	366	36	267
Fox, Alice. (See Fox, Irving W. and A.)						
Fox & Company, S. (See Brearley, Thomas, assignor.)						
Fox, Cyrus J., Falls City, Nebr. Calf-weaner	350,877	Oct. 12	1098	293	37	208
Fox, Everett B. (See Creager, Harry M., assignor.)						
Fox, Frank, Ashland, Wis. Ore-separator	342,741	May 25	2489	661	35	991
Fox, Frank A., assignor of one-fourth to H. R. Smith, New York, N. Y. Button	346,649	Aug. 3	254	69	36	510
Fox, George H., Boston, Mass. Revolver	342,507	May 25	2159	572	35	928
Fox, Henry C., Evansville, Ind., assignor to Fox Sad-Iron Co., New York, N. Y. Gas-heating attachment for reversible sad-irons	350,239	Oct. 5	197	56	37	41
Fox, Hermann, New York, N. Y. Apparatus for preparing grain for mashing	341,801	May 11	1141	303	35	728
Fox, Irving W. and A., Ilion, N. Y. Abdominal supporter	342,294	May 18	1826	482	35	862
Fox, Ivan, and G. E. Holle, Philadelphia, Pa. Fastening for shoes, gloves, &c	352,532	Nov. 16	1121	303	37	684
Fox, James E., assignor of one-half to D. C. Loewenstine, Minneapolis, Minn. Show-case	354,893	Dec. 28	1810	478 479	37	1364
Fox, John H., Kessler, Ohio. Churn	342,346	May 25	1918	506	35	887
Fox, John K., McKeesport, Pa. Hammock	350,878	Oct. 12	1099	293	37	208
Fox, Joseph, West Middleburg, Ohio. Lifting-valve for tubular wells	348,491	Aug. 31	2866	771	36	1027
Fox Sad-Iron Co. (See Fox, Henry C., assignor.)						
Fox, Samson, Harrogate, county of York, England. Horn-plate for car and locomotive frames	341,802	May 11	1141	303	35	728
Fox, Samson, Harrogate, county of York, England. Apparatus for the manufacture of horn plates	346,539	Aug. 3	114	30	36	482
Fox, Washington I. (See Houghton and Fox.)						
Fox, Wilder M., Upper Stillwater, Me. Spinning-machine	339,981	Apr. 13	1264	315	35	232
Fox, William H., and H. G. Richey, Bluffton, Ind. Farm-gate	341,840	May 11	1194	320	35	740
Fox, William R. (See Berkey and Fox.)						
Fox, William T., Rochester, N. Y. Hydraulic elevator	355,159	Dec. 28	2186	577 578	37	1435
Foy, Edward A., Cincinnati, Ohio. Coupling for lightning-rods	344,096	June 22	1900	487	35	1374
Foy, Edward A., assignor to W. F. Foy, Cincinnati, Ohio. Ornament for curtain-poles	349,640	Sept. 21	1501	389	36	1344
Foy, William F. (See Foy, Edward A., assignor.)						
Frackelton, Susan S., Milwaukee, Wis. China-firing apparatus	349,935	Sept. 28	1918	497	36	1429

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Fradley, Joseph F., New York, N. Y. Opera-glass	351,317	Oct. 19	1724	453	37	328
Fraikin, John J., Fort Wayne, Ind. Check-row corn-planter and fertilizer-distributer	337,759	Mar. 9	1172	305	34	1142
Frain, George P. (See Brown and Frain.)						
Fraleigh, Solomon, Newark, N. J., assignor of one half to A. Bryant, New York, N. Y. Indicator for reservoirs	354,508	Dec. 14	1247	333	37	1240
Frambach, Henry A., and R. P. Dart, Kaukauna, and A. J. Vollrath, Sheboygan, Wis. Boiler or digester for reducing wood and other paper-stock	348,159	Aug. 24	2391	642	36	931
Frampton, George M., Kansas City, Mo. Rein-holder	337,760	Mar. 9	1173	306	34	1143
France, A. L., *et al.* (See Murray, William A., assignor.)						
France, Samuel, Bourbon, Ind. Electro-medical battery	333,739	Jan. 5	339	92	34	63
France, Simon W., Brooklyn, N. Y. Boiler and steamer	333,740	Jan. 5	340	92	34	63
France, William C., *et al.* (See Murray, William A., assignor.)						
Francis, Allan E., Cleveland, Ohio. Roller-skate	336,308	Feb. 16	1769	463	34	767
Francis, Allan E., Cleveland, Ohio. Shell for axle-bearings	347,931	Aug. 24	2069	549	36	871
Francis, Casper S., *et al.* (See Brooke, Isaac, assignor.)						
Francis, Harry C., Philadelphia, Pa. Feed-water heater	339,635	Apr. 13	798	196	35	147
Francke, Paul F., Chemnitz, Saxony, Germany. Surgical instrument	343,306	June 8	777	194	35	1156
Frank, Alonzo W., Bolivar, N. Y., assignor to H. L. McMullin, Bradford, Pa. Kettle-cover	346,405	July 27	2284	586	36	437
Frank, August, New York, N. Y. Combined cane, umbrella, and hat rack	333,741	Jan. 5	341	92	34	64
Frank, Clara, assignor to herself and E. Gutmann, New York, N. Y. Cuff-holder	350,622	Oct. 12	742	203	37	143
Frank, Francis A., New York, N. Y. Churn	345,376	July 13	799	201	36	149
Frank, Henry C., New York, N. Y. Armpit-shield	348,390	Aug. 31	2721	731	36	1001
Frank, Jacob. (See Haddock, Worcester, assignor.)						
Frank, Leroy R. (See Amos, William H., assignor.)						
Frank, Peter, St. Louis, Mo. Car-coupling	351,970	Nov. 2	348	96	37	523
Frank, Rudolph, Hamburg, Germany. Book-sewing machine	334,945	Jan. 26	2015	537, 538	34	395
Frank, William A., Pinal, Ariz. Ter. Ore-concentrator	335,219	Feb. 2	194	51	34	475
Frank, William A., assignor of one-half to T. Wicks, Pinol, Ariz. Ore-concentrator	342,435	May 25	2045	539	35	909
Frank, William A., and T. Wicks, Pinal, Ariz. Ter. Journal-bearing	352,685	Nov. 16	1339	361	37	723
Frankel, Alexander C., assignor to J. Lagowitz, Newark, N. J. Caster	338,636	Mar. 24	2374	625	34	1375
Frankel, Alexander C., assignor to J. Lagowitz, Newark, N. J. Caster	350,302	Oct. 5	269	77	37	55
Frankel, Max, Greenport, N. Y. Permutation-lock	351,026	Oct. 19	1338	351	37	257
Frankenberry, Thomas R., North Liberty, Ind. Draft-equalizer	340,996	May 4	35	9	35	512
Frankenthal, Ettie J. (See Reeves, Charles W., assignor.)						
Frankfort Whisky Process Company. (See Allen and Bradley, assignors.)						
Franklin, Benjamin, Bradford, Pa. Gas or water regulator	334,011	Jan. 12	705	194	34	140
Franklin, Benjamin, assignor of one-half to S. R. Dresser, Bradford, Pa. Gas-regulator	353,548	Nov. 30	2566	684	37	971
Franklin, Edward A., Brenham, Tex., assignor to Bailey, Farrell & Co., Pittsburg, Pa. Machine for loading cartridges	347,030	Aug. 10	756	201, 202	36	612
Franklin, Edward A., Brenham, Tex., assignor to Bailey, Farrell & Co., Pittsburg, Pa. Machine for loading cartridges	347,268	Aug. 10	1091	292	36	674
Franklin, George E., Natick, Mass. Pipe-wrench	345,777	July 20	1412	366	36	267
Franklin, William, Corry, Pa. Pinch-bar	354,053	Dec. 7	585	159	37	1112
Franklin, William B., and C. J. Ebbets, assignors to Colts Patent Fire Arms Manufacturing Company, Hartford, Conn. Magazine fire-arm	335,517	Feb. 2	594	155	34	546
Franks, Orrin G., Oneida, N. Y. Saw-setting device	349,989	Sept. 28	1996	515, 516	36	1444
Fransson, Charles G., Norway, Mich. Wood-carrier	340,303	Apr. 20	1735	442	35	322
Franz, Henry, assignor to Campbell, Jones & Co., Pittsburg, Pa. Glass-mold	342,743	May 25	2190	662, 663	35	991
Frary, James D., Bridgeport, Conn. Disintegrator and grainer	343,809	June 15	1507	379	35	1294
Frary, James D., Bridgeport, Conn., assignor to J. Russell Cutlery Company, Turner's Falls, Mass. Table-cutlery	341,415	May 4	620	169	35	617
Frasch, Herman, London, Ontario, Canada. Process of and apparatus for distilling hydro-carbon oil	340,499	Apr. 20	2004	515	35	373
Frasch, Herman, London, Ontario, Canada. Oil-lamp	340,711	Apr. 27	2308	608	35	431
Fraser, Aaron E., Lockport, N. Y. Bottle-stopper	336,848	Feb. 23	2502	659	34	907
Fraser, Edwin J., San Francisco, Cal. Apparatus for treating wines and liquors by electricity	339,540	Apr. 6	630	154	35	114
Fraser, Edwin J., San Francisco, Cal. Treating wines and liquors by electricity	339,541	Apr. 6	631	154	35	115
Fraser, George C., Port Sanilac, Mich. Stove-pipe damper	340,500	Apr. 20	2008	515	35	373
Fraser, John, *et al.* (See Salomo, Hugo, assignor.)						
Fraser, Richard A., Mansfield, La. Planter	353,445	Nov. 30	2406	643	37	941
Fraser, Simon J., Lowell, Mass. Drawer check and support	345,227	July 6	586	149	36	106
Frasier, Albert A., Oneonta, N. Y. Mop-wringer	339,755	Apr. 13	968	239	35	176
Fraumann, John H., assignor of one-half to A. P. Dumler, Cincinnati, Ohio. Vegetable-cutter	336,909	Mar. 2	39	10	34	934
Frawley, John J., Philadelphia, Pa., assignor to E. Kirstein, Rochester, N. Y. Nose piece for spectacles	350,192	Oct. 5	133	38	37	28
Fray, John S., Bridgeport, Conn. Screw-driver	336,560	Feb. 23	2105	554	34	835
Frazee, John W., and A. J. Thomas, Kansas City, Mo. Combined cooler and filter	334,426	Jan. 19	1328	359	34	260
Frazier, Alexander L. (See Robinson, John H., assignor.)						
Frazure, James, Newark, Nebr. Check-row corn-planter	344,572	June 29	2557	661	35	1501
Freaney, Patrick J. (See Miller, Harrison S., assignor.)						
Freasier, Joseph L., St. Louis, Mo. Vehicle-brake	350,050	Sept. 28	2069	535	36	1458
Frech, William, Chicago, Ill. Drilling-machine	336,849	Feb. 23	2503	659	34	908
Fréchette, Isaïe, St. Hyacinthe, Quebec, Canada, assignor to National Automatic Lubricator Company, Portland, Me. Car-axle lubricator	345,228	July 6	587	149, 150	36	106
Fréchette, Isaïe, and C. L. Girard, St. Hyacinthe, Quebec, Canada, assignors, by mesne assignments, to National Automatic Lubricator Company, Portland, Me. Car-axle lubricator. (Reissue)	10,767	Sept. 28	2140	551	36	1471
Frechette, Louis. (See Moses and Frechette.)						
Frecker, Charles, Brooklyn, N. Y. Composing-stick	338,259	Mar. 23	1859	489	34	1285
Frederick, Christian, and C. N. Trump, Wilmington, Del. Pneumatic hammer	318,837	Sept. 7	397	107	36	1121
Frederick, Edward P., assignor to Broderick & Bascom Rope Company, St. Louis, Mo. Wire-rope fastening	341,101	May 4	175	55	35	537
Fredericks, Daniel D., Rossville, Ind. Washing-machine	337,144	Mar. 2	350	91	34	990
Fredericks, Herman, Jersey City, N. J. Vial and sample case	346,276	July 27	2101	541	36	403
Fredericks, William. (See Schlusser and Fredericks.)						
Fredricks, William. (See Heath and Fredricks.)						
Free, John W. (See Brown and Free.)						
Free, John W., and J. O. Brown; said Brown assignor to said Free, Boston, Mass. Malt-drying apparatus	351,432	Oct. 26	1923	501	37	368

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Free, Lewis W., Cheyney, Pa. Wheelwright's clamp	336,633	Feb. 23	2214	577	34	852
Freed, Winfield S. (See Wharry, John R., assignor.)						
Freeland, Francis T., Leadville, Colo. Jig-box for separating ores	348,517	Aug. 31	2908	782	36	1035
Freeland, William H., Edwardsport, Ind. Device for handling wagon-bodies	348,271	Aug. 31	2565	689	36	969
Freeley, Ella M., New York, N. Y. Vulcanized rubber and textile fabric	340,501	Apr. 20	2008	.....	35	374
Freeman, Augustus M., Ocean Grove, assignor to himself and A. C. Kelly, Metuchen, N. J. Safety-pin	354,830	Dec. 21	1719	455	37	1335
Freeman, Benjamin N., and S. E. Whitehead, St. Louis, Mo. Nut-lock	350,533	Oct. 12	605	167	37	117
Freeman, Benjamin S., Jr., Attleborough Falls, Mass. Button	335,803	Feb. 9	1018	269	34	630
Freeman, Charles D., *et al.* (See Belisle, Robert S., assignor.)						
Freeman, Clara K., *et al.* (See Freeman, Leander W., assignor.)						
Freeman, Edward F., assignor of one-half to F. Yunck, Bryan, Ohio. Sand-blower	346,650	Aug. 3	255	70	36	510
Freeman, Edwin P. J., Roslyn, N. Y. Railway-tie and securing guards and rails to the same	335,804	Feb. 9	1018	269	34	630
Freeman, Edwin P. J., Roslyn, N. Y. Railway-tie and rail-fastening	335,805	Feb. 9	1019	269	34	630
Freeman, George B., Middleville, Mich. Draft-equalizing harness	347,290	Aug. 10	1426	302	36	680
Freeman, Israel, *et al.* (See Freeman, Leander W., assignor.)						
Freeman, James T., Woburn, Mass. Frame for leather-working machines	340,712	Apr. 27	2311	608	35	431
Freeman, James T., Woburn, Mass. Leather-dressing machine	340,713	Apr. 27	2311	608, 609	35	431
Freeman, Leander W., Liberty, Ind. Horse hay-rake	348,898	Sept. 7	490	130	36	1137
Freeman, Leander W., Liberty, assignor, by mesne assignments, of one-half to E. L. Kennedy, Rushville, I. Freeman, L. L. Bond, and C. K. Freeman, Liberty, Ind. Mail-bag	344,775	June 29	2819	730	35	1549
Freeman, Samuel D., Fort Thomas, Ariz. Ter. Cotton-gin	339,091	Mar. 30	3043	804	34	1498
Freeman & Sons, S. (See Lord, William W., assignor.)						
Freeman, Stephen, Racine, Wis. Broadcast seed-sower	340,774	Apr. 27	2394	631	35	448
Freeman, Wallace F., Astoria, N. Y. Dynamo-electric machine	344,801	June 29	2862	740	35	1559
Freeman, Wallace E., Astoria, N. Y. Arc light	344,802	June 29	2864	741	35	1559
Freeman, Warren P., assignor to B. S. Clark, New York, N. Y. Telephone-transmitter	335,806	Feb. 9	1020	270	34	631
Freeman, William, Southbridge, Mass. Nose-guard for eyeglasses	335,277	Feb. 2	269	71	34	489
Freemann, Mahlon S., Norristown, Pa. Axle-nut	336,710	Feb. 23	2320	608	34	874
Freer, Charles O., North Walton, N. Y. Device for supporting and protecting sap-pails	349,789	Sept. 28	1729	446	36	1391
Frees, Chancy A., New York, N. Y. Artificial leg	335,748	Feb. 9	934	246	34	615
Freese, Daniel T., North Amherst, Ohio. Necktie-fastener	334,224	Jan. 12	1040	276	34	201
Freese, Francis J., assignor to himself, G. S. Cushing, and J. A. Kimball, Lowell, Mass. Loom-shuttle spindle	343,518	June 8	1095	275	35	1213
Frega, Giuseppe, Philadelphia, Pa. Curve-scriber for tailors' use	347,760	Aug. 17	1812	482	36	815
Freidenrich, Leon, New York, N. Y. Waistband attachment	352,457	Nov. 9	1633	278	37	659
Freinkelstein, Wolf. (See Oveun and Freinkelstein.)						
Freir, Samuel P., Roselle, N. J., assignor to Western Union Telegraph Company, of New York. Diplex and quadruplex telegraphy	352,865	Nov. 16	1570	424	37	767
Frelich, Benjamin M., Saugerties, N. Y. Axle-lubricator	338,661	Mar. 23	2408	633	34	1380
Frellochr, Julius, assignor to himself and W. Riddell, San Francisco, Cal. Chenille	336,515	Feb. 16	2042	536	34	817
Fremont Cultivator Company. (See Brinkerhoff, Samuel, assignor.)						
Fremont Cultivator Company. (See Stahl and Rosebaugh, assignors.)						
French, Albert, East Rockport, Ohio, assignor of one-half to A. French, Washington, D. C. Thill-coupling	337,761	Mar. 9	1174	306	34	1143
French, Alfred. (See French, Albert, assignor.)						
French, Francis J. (See Abbey and French.)						
French, Frank E., Laconia, N. H. Shears	338,346	Mar. 23	1981	522	34	1306
French, George W., Kansas City, Mo. Pilot and guard for railway-cars	354,831	Dec. 21	1720	455	37	1335
French, James, New York, N. Y. Necktie-fastener	350,672	Oct. 12	813	221	37	155
French, Julia B., Boston, Mass. Tub or tank for toilet, laundry, and refrigerating purposes	348,321	Aug. 31	2627	708	36	982
French, Menzell S., Nashua, N. H. Sectional bath-tub	351,103	Oct. 19	1436	376, 377	37	275
French, Nathaniel G., Norway, assignor, by mesne assignments, to said French and N. W. Brainerd, Waterville, Me. Valise, &c	340,567	Apr. 27	2108	543	35	398
French, Peter W., trustee. (See Meacom, George, assignor.)						
French, Philo N., Pittsburg, Pa. Mandrel for springs	349,427	Sept. 21	1221	317	36	1287
French, Philo N., assignor to A. French Spring Company, (limited,) Pittsburg, Pa. Machine for straightening and nibbing spring-leaves	345,629	July 13	1187	304, 305	36	220
French Spring Company, A. (See French, Philo N., assignor.)						
French, Stephen H., and W. J. Maltby, Baird, Tex. Wheel-hub	337,319	Mar. 2	592	155	34	1035
French, William A., Narrows, Va. Hot-air fire-place heater	354,632	Dec. 21	1442	383	37	1282
Frenier, John H., Rutland, Vt. Apparatus for sawing stone	333,510	Jan. 5	20	7	34	7
Frenier, John H., Rutland, Vt. Stone-sawing machine	336,099	Feb. 16	1442	380, 381	34	711
Frenier, John H., Rutland, Vt. Sand and water feed mechanism for stone-sawing machines	352,916	Nov. 23	1643	442	37	791
Frenzel, Arthur B., assignor of one-third to C. H. Delamater & Co., New York, N. Y. Vacuum-pan	338,662	Mar. 23	2409	634	34	1380
Frenzel, Arthur B., assignor of one-third to C. H. Delamater & Co., New York, N. Y. Vacuum-pan	350,424	Oct. 5	424	122, 123, 124	37	83
Freschl, Carl, Milwaukee, Wis. Cap	344,368	June 29	2283	587	35	1450
Frese, Bernard, Chicago, Ill. Stem winding and setting watch	350,425	Oct. 5	431	124	37	85
Fretwell, William A., Reidsville, N. C. Plow	353,852	Dec. 7	282	75	37	1058
Fretz, Charles H., St. Louis, Mo. Shoe or boot	354,832	Dec. 21	1721	456	37	1336
Frew, John, Langloam, near Coatbridge, county of Lanark, Scotland. Pyrometer	339,756	Apr. 13	969	240	35	177
Frey, Enos, G. F. Motter, and J. Reichley, York, Pa. Steam-boiler	333,846	Jan. 5	477	129	34	89
Frey, John, Cincinnati, Ohio. School-blackboard	338,397	Mar. 23	2059	540	34	1319
Frey, Frederick E. (See Miller and Frey.)						
Frey, John W., Baltimore, Md. Fence building	353,549	Nov. 30	2567	685	37	971
Freytag, William O., Philadelphia, Pa. Foot-wiper or boot and shoe cleaner	350,879	Oct. 12	1100	293	37	208
Friborg, John, London, England. Fire-escape	346,540	Aug. 3	115	31	36	482
Frick, David W. (See Bartmes, Whallon, and Frick.)						
Frick, George, and E. Penney, Waynesborough, Pa. Feed mechanism for saw-mills	355,071	Dec. 28	2057	540, 541	37	1409
Friebertshauser, August, Sandusky, Ohio. Pocket-knife	345,296	July 13	694	175	36	131
Fried, George W., and W. F. Weaber, Allentown, Pa. Shifting thill-coupling	339,636	Apr. 13	801	196	35	147
Friede, Samuel M., and F. D. Johnston, St. Louis, Mo. Portable fare-box	343,120	June 1	498	126	35	1096
Friede, Wilhelm, Hamburg, Germany, assignor to O. J. Meisel and A. Herz, Terre Haute, Ind. Purifying water for steam-boilers	354,855	Dec. 21	1745	.....	37	1340

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Friedenwald, Benjamin B., *et al.* (See Haydn, George, assignor.)						
Friedenwald, Benjamin B., *et al.* (See White, Charles, assignor.)						
Friedenwald, Benjamin B., *et al.* (See White, Charles, assignor.) (Reissue.)						
Friedenwald, Hiram W., *et al.* (See Haydn, George, assignor.)						
Friedenwald, Hiram W., *et al.* (See White, Charles, assignor.) (Reissue.)						
Friederich, Karl. (See Sass and Friederich.)						
Friederici, Charles, Chicago, Ill. Lubricator for steam-engines	336,045	Feb. 9	1350	357	34	688
Friedgen, Fredrick, Philadelphia, Pa. Dumb-waiter	336,046	Feb. 9	1351	357	34	688
Friedman, Leopold, Paducah, Ky. Vinegar apparatus	344,097	June 22	1901	487	35	1374
Friend, Samuel, Decatur, Ill. Sand and gravel separator	348,666	Sept. 7	184	49	36	1080
Fries, Henry E., Salem, N. C. Hand planter and distributer	337,390	Mar. 9	684	179	34	1058
Fries, John W., Salem, N. C. Tanning	343,166	June 8	570	.....	35	1119
Fries, John W., Salem, N. C. Tanning	343,167	June 8	572	.....	35	1120
Fries, William A., Brooklyn, assignor to H. W. Johns Manufacturing Company, New York, N. Y. Spool	335,692	Feb. 9	847	224	34	599
Fries, William A., Philadelphia, Pa., assignor to H. W. Johns Manufacturing Company, New York, N. Y. Spool	335,749	Feb. 9	935	246	34	615
Frieseke, Albert C., Jacksonville, Fla. Electric time-recorder	339,092	Mar. 30	3044	805	34	1498
Frieseke, Albert C., Jacksonville, Fla. Combined blow-pipe and lamp	351,318	Oct. 19	1725	453	37	328
Frink & Angevine. (See Blass, Talmadge, assignor.)						
Frisbee, Ernest L. (See Frisbee, Robert H., assignor.)						
Frisbee, Gideon, New York, N. Y. Mill for pulverizing quartz	337,570	Mar. 9	947	242	34	1103
Frisbee, Robert H., assignor to E. L. Frisbee, Union City, Pa. Cover for baskets	336,516	Feb. 16	2043	536	34	817
Frisbie, Dennis, and E. M. Lockwood, Philadelphia, Pa., assignors to said Frisbie. Steam and gas engine	349,705	Sept. 28	1593	412	36	1368
Frisbie, Dennis, and E. M. Lockwood, Philadelphia, Pa., assignors to said Frisbie. Elevator	349,706	Sept. 28	1596	412	36	1368
Frisbie, Henry R., Cromwell, assignor to Pratt & Cady Company, Hartford, Conn. Valve	333,940	Jan. 5	607	165	34	114
Frisbie, Henry R., Cromwell, assignor to Pratt & Cady Company, Hartford, Conn. Valve	333,941	Jan. 5	609	166	34	114
Frisbie, Joseph F., Boston, Mass. Apparatus for preventing ships from sinking	351,971	Nov. 2	351	97	37	524
Frist, James, Baltimore, Md. Mechanical movement	334,699	Jan. 19	1705	455	34	329
Frist, Samuel H., Chattanooga, Tenn. Cotton-picker	352,458	Nov. 9	1034	{278 / 279}	37	659
Fritchey, Joseph U. (See Osborn and Fritchey.)						
Fritsch, Emil, Leipsic, Saxony, Germany. Wheat cleaning and polishing machine	335,220	Feb. 2	196	51	34	475
Fritts, Charles E., New York, N. Y. Car-coupling	343,707	June 15	1369	342	35	1268
Fritts, Charles E., New York, N. Y. Making isochronal hair-springs	350,584	Oct. 12	679	185	37	130
Fritts, William H., Plano, Ill. Handsaw	350,193	Oct. 5	134	39	37	28
Fritz, George J., St. Louis, Mo. Bottle-washer	337,054	Mar. 2	229	61	34	967
Fritz, Philip, Grand Rapids, Mich. Sleigh	347,787	Aug. 24	1855	494	36	832
Frizell, Joseph P., Boston, Mass. Turbine water-wheel	334,523	Jan. 19	1462	392	34	284
Froome, John R., Winton Place, Ohio. Camera-shutter	343,367	June 8	887	223	35	1176
Fross, William L., Springfield, Ohio. Needle-holder attachment for sewing-machines	350,730	Oct. 12	890	238	37	169
Frost, Abel H., *et al.* (See Briggs, Orlando P., assignor.)						
Frost, Charles H. (See Grigg, Thomas H., assignor.)						
Frost, Charles W. (See Gilman, Frost, and Foster.)						
Frost, Daniel W., Keokuk, Iowa. Door-spring	336,309	Feb. 16	1770	463	34	767
Frost, Edson L. (See Whiting, Lewis D., assignor.)						
Frost, Eli C., Elmira, N. Y. Range	353,024	Nov. 23	1797	482	37	818
Frost, George, *et al.* (See Preston, Charles A., assignor.)						
Frost, George, *et al.* (See Wardwell, William S., assignor.) (Reissue.)						
Frost, George A., *et al.* (See Wardwell, William S., assignor.) (Reissue.)						
Frost, Joseph W., Rochester, N. Y. Electric fire extinguishing and alarm system	350,126	Oct. 5	37	10, 11	37	10
Frost, Joseph W., Rochester, N. Y. Annunciator and alarm-signal	354,856	Dec. 21	1745	{462 / 463}	37	1340
Frost, Joseph W., and S. D. Lake, Rochester, N. Y. Automatic electric fire-alarm system	350,426	Oct. 5	432	{124 / 125}	37	85
Frost, Oscar F., Monmouth, Me. Alarm for poison-receptacles	349,641	Sept. 21	1501	389	36	1344
Frost, Stiles, Boston, Mass. Bottle-holder	350,731	Oct. 12	891	239	37	169
Frost, Walter, assignor of two-thirds to H. E. Winter and J. L. Mérigot, London, England. Apparatus for adjusting carriage-windows	340,037	Apr. 13	1345	{336 / 337}	35	246
Frost, William H., Athol, Mass. Soldering-tool	344,311	June 22	2197	565	35	1427
Frothingham, James K. (See Collins, Edward, assignor.)						
Fruen, William H., Minneapolis, Minn. Mechanism for changing coin	344,824	July 6	26	7, 8	36	7
Frushour, Calvin G., La Gro, Ind. Automatic water-service system for windmills	335,807	Feb. 9	1021	270	34	631
Fry, George W., Uxbridge, Mass. Interfering-pad	348,003	Aug. 24	2171	578	36	889
Fry, Isaac M., Hebron, Nebr. Gate	340,997	May 4	36	10	35	512
Fry, J. O. (See Pratt, Joel A., assignor.)						
Fryberger, Anthony Z., assignor of one-half to W. V. Snyder, New Baltimore, Ohio. Thill-coupling	347,291	Aug. 10	1128	302	36	680
Fryer, Robert M. (See Clarkson and Fryer.)						
Fryer, Robert M., Brooklyn, N. Y., assignor to Carbon Casket Company. Coffin	340,038	Apr. 13	1347	337	35	246
Fryer, Robert M., assignor of one-half to T. O'Meara, Brooklyn, N. Y. Center-board for vessels	351,831	Nov. 2	139	39	37	484
Fuchs, John H., Chartiers, Allegheny county, Pa. Carpet-strip or door-sill	352,745	Nov. 16	1411	381	37	738
Fulda, Max, New York, N. Y., assignor to Einbigler & Adler. Alarm for poison-bottles	352,051	Nov. 2	463	125	37	546
Fulford, Bertram, assignor to himself and O. Hand, Shelbyville, Ind. Wire-twisting machine	349,251	Sept. 14	981	250	36	1232
Fulgham, Jesse P., Richmond, Ind. Fertilizer-distributer	353,551	Nov. 30	2569	{685 / 686}	37	972
Fuller, Arthur, *et al.* (See Gordon, William, assignor.)						
Fuller, Charles A., assignor to F. R. Fuller and W. H. Jacoby, Minneapolis, Minn. Shirt-bosom and neckband ironer	351,757	Nov. 2	40	11	37	466
Fuller, E. M., *et al.* (See Harris, Noah, assignor.)						
Fuller Electrical Company. (See Wood, James J., assignor.)						
Fuller, Frank R., *et al.* (See Fuller, Charles A., assignor.)						
Fuller, George P., Minneapolis, Minn. Wash-board	336,910	Mar. 2	40	10	34	934
Fuller, George P., assignor of one-half to A. A. Kelly, Minneapolis, Minn. Nut-lock	338,729	Mar. 30	2526	668	34	1407
Fuller, George W., Westmoreland, N. Y. Mop-holder	350,240	Oct. 5	198	56	37	41
Fuller, Jacob C. (See Norton and Rouse, assignors.)						
Fuller & Johnson Manufacturing Company. (See Starks, Nils O., assignor.)						
Fuller Manufacturing Company. (See Ballard, William P., assignor.)						
Fuller, Watson, Atlanta, Ga. Station-indicator	338,398	Mar. 23	2061	540	34	1319

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fuller, Willard M., New York, and J. J. Hayes, Brooklyn, N. Y. Pulverizing-machine	335,573	Feb. 9	681	179, 180	34	569
Fuller, Willard M., New York, and J. J. Hayes, Brooklyn, N. Y. Pulverizing-machine	335,574	Feb. 9	683	180	34	569
Fuller, Willard M., assignor of one-half to W. A. Pile, New York, N. Y. Steam-generating furnace	341,470	May 11	701	187, 188	35	642
Fuller, Willard M., New York, and J. J. Hayes, Brooklyn, assignors to American Pulverizer Company, New York, N. Y. Pulverizer-machine	352,459	Nov. 9	1037	279	37	660
Fullerton, George A. (See Baldwin, John W., assignor.)						
Fullerton, George A., assignor of one-half to G. H. P. Flagg, Boston, Mass. Burnishing-tool holder	335,185	Feb. 2	140	36	34	466
Fullerton, George A., assignor to G. H. P. Flagg, trustee, Boston, Mass. Roll for sole-buffing machines	352,087	Nov. 2	521	139	37	557
Fullerton, Robert. (See Eason, George L., assignor.)						
Fulmer, George W., Water Valley, Miss. Car-axle journal-bearing	342,436	May 25	2046	539	35	909
Fulton, Alexander, Philadelphia, Pa. Vaporizer	349,273	Sept. 14	1005	256	36	1237
Fulton, Harmon H., Indianapolis, Ind. Lathing	336,517	Feb. 16	2044	537	34	817
Fulton Iron Works. (See Fisher, George W., assignor.)						
Fulton, Louis B., Pittsburg, Pa. Gas-pressure regulator	339,757	Apr. 13	970	239	35	177
Fulton, Louis B., Pittsburg, Pa. Pressure-regulator	340,107	Apr. 20	1439	364	35	268
Fulzenger, William A. (See Custard, Joseph F., assignor.)						
Funk, Charles A. (See Croswell and Funk.)						
Funk, Daniel. (See Royer, Jacob J., assignor.)						
Funk, Daniel D., Fremont, Ohio. Cultivator	352,533	Nov. 16	1124	304	37	684
Funk, Daniel D., Greenville, assignor of one-half to J. W. and N. P. Lehr, Fremont, Ohio. Cultivator	348,518	Aug. 31	2909	782, 783	36	1035
Funk, Edward F., Decatur, Ill. Calf-feeder	336,225	Feb. 16	1643	429	34	745
Funk, Henry, Farmer City, Ill. Extinguishing device for foot-lights	344,776	June 29	2820	731	35	1549
Funk, John B., Columbia, assignor of one-half to E. Light, Lebanon, Pa. Tricycle	336,226	Feb. 16	1644	429, 430	34	745
Funk, John S., assignor of one-fourth to J. J. Hudson, Philadelphia, Pa. Spinning-machine	336,850	Feb. 23	2504	660	34	908
Funk, John W., Heyworth, Ill. Harness-buckle	346,036	July 20	1774	456	36	330
Funk, Levi, Waynesburg, Pa. Bosom-board	350,732	Oct. 12	892	239	37	169
Funk, William R. (See Kienardt and Funk.)						
Furbish, Zachary T., Augusta, assignor to W. H. Stevens, Portland, Me. Rosette-lock	348,899	Sept. 7	491	130	36	1138
Furbush & Son Machine Company, M. A. (See Meyer and Kohler, assignors.)						
Furey, Cyrus R., assignor of three-fourths to J. L. Maurice and J. H. Cochley, Logansport, Ind. Tedder	354,857	Dec. 21	1751	463	37	1341
Furey, Cyrus R., assignor of one-half to J. M. Troutman and H. B. Taylor, Logansport, Ind. Neck-yoke center	355,072	Dec. 28	2059	541	37	1410
Furnall, David. (See Dana and Furnall.)						
Furrell, Edward W., assignor of one-half to P. Bakewell, St. Louis, Mo. Railway-car	340,206	Apr. 20	1592	403	35	297
Fuso, Ignazio, Boston, Mass. Upright-piano action	334,768	Jan. 26	1799	479	34	355
Fyler, Silas B., East Syracuse, N. Y. Railway-signal	348,322	Aug. 31	2628	708	36	982
Fyrberg, Andrew. (See Johnson and Fyrberg.)						
Fyrberg, Andrew. (See Johnson, Torkelson, and Fyrberg.)						
Gabay, David A., assignor to McKesson & Robbins, New York, N. Y. Folding sponge-basket	354,697	Dec. 21	1535	407	37	1300
Gabbey, Robert S., Rossville, Kans. Automatic grain weighing and registering machine	343,763	June 15	1455	363	35	1284
Gabel, Alfred N., Jr., and A. L., Onarga, Ill. Car-coupling	337,257	Mar. 2	501	131	34	1019
Gabel, Arthur L. (See Gabel, Alfred N., Jr., and A. L.)						
Gabet, Joseph, and G. Koehlinger, New Haven, Ind. Combined door check and buffer	348,275	Aug. 31	2566	689	36	969
Gable, John E., and F. M. Williams, Grand Rapids, Mich. Buckle	347,340	Aug. 17	1207	322	36	704
Gabourcy, Joseph A., Montgomery, Ala. Compressor	342,198	May 18	1672	446	35	835
Gabriel, Ernesti, Elmwood, Ill. Label-cabinet	349,790	Sept. 28	1730	446	36	1392
Gaddess, Virginius. (See Fitzhugh, Benjamin G., assignor.)						
Gaddis, Benjamin W., Kingston, Kans. Respirator	347,788	Aug. 24	1856	495	36	832
Gadsby, Elijah H., San Francisco, Cal. Progressive climbing device for the use of painters, &c	335,278	Feb. 2	271	71	34	489
Gaenssler, Gotthilf. (See Gaenssler, Heinrich and G.)						
Gaenssler, Heinrich and G., Eslingen, Würtemberg, Germany. Rotary jewel	340,108	Apr. 20	1440	364	35	269
Gaffney, John H., Worcester, Mass. Parlor game of base-ball	347,704	Aug. 17	1740	464	36	802
Gage, Charles H., Stanberry, Mo. Check-rower	342,347	May 25	1918	506	35	887
Gage, Edwin L., *et al.* (See Gage, James L., assignor.)						
Gage, George A., and C. W. Crary, Chicago, Ill. Electric-arc light	334,073	Jan. 12	802	220	34	157
Gage, James L., assignor of one-half to C. E. Woolley and E. L. Gage, Chicago, Ill. Band-saw mill	354,407	Dec. 14	1100	295	37	1215
Gage, James P., Fairfield, Iowa. Folding table	334,946	Jan. 26	2019	538	34	395
Gage, John P., Vineland, N. J. Bench-plane	339,872	Apr. 13	1117	278	35	205
Gage, Wellesley W., New York, N. Y. Fence	336,634	Feb. 23	2214	578	34	853
Gage, Wellesley W., New York, N. Y. Fence-post	340,568	Apr. 27	2109	543	35	399
Gague, Fabius P. (See McCarty and Gague.)						
Gaige, John T., Penn Yan, N. Y. Reservoir blacking-brush	354,545	Dec. 21	1305	347	37	1258
Gaillard, Ella N., New York, N. Y. Electric illuminating apparatus	333,742	Jan. 5	342	93	34	64
Gaillard, Ella N., New York, N. Y. Musical watch	346,812	Aug. 3	439	120	36	545
Gaillet, Paul H. A., and L. H. S. H. Huet, Lille, France. Apparatus for separating liquids from solids	349,990	Sept. 28	1997	516	36	1444
Gailor, James D., Ahnapee, Wis. Bin	334,652	Jan. 19	1642	438	34	318
Gaines, Hiram F., Rouse's Point, N. Y. Mail-bag lock	353,300	Nov. 30	2200	589	37	902
Gaines, Hiram F., Rouse's Point, N. Y. Mail-bag	354,546	Dec. 21	1306	347	37	1258
Gaines, Marshall N., Dunedin, Fla. Fruit-conveyer	345,891	July 20	1571	405	36	294
Gaines, Wilber H., Trenton, Ind. Hay-knife	342,957	June 1	259	66	35	1053
Gaiser, Charles A., Edwardsville, Ill. Armature for electro-magnets	338,260	Mar. 23	1860	489	34	1285
Gaiser, Charles A., Edwardsville, Ill. Armature for electro-magnets	338,261	Mar. 23	1861	489	34	1285
Gaitley, John E., *et al.* (See Hildreth, George, assignor.)						
Gaitley, John E., Troy, N. Y. Kettle-bail	338,506	Mar. 23	2206	579	34	1346
Gaitley, John E., Troy, N. Y. Knob and handle for stove-doors	338,507	Mar. 23	2207	579	34	1346
Galbraith, George M., Oxford, Ky. Tobacco-drier	333,511	Jan. 5	23	7	34	7
Gale, Augustus J., Albion, Mich. Plow	347,102	Aug. 10	869	230	36	632
Gale, Frank A., Lowell, Mass. Speed-governor	346,472	Aug. 3	31	8	36	466
Gale, George F. (See Davis and Gale.)						
Gale, Henry F., and L. A. Hawley, Syracuse, N. Y. Cable-coupling	339,399	Apr. 6	408	99	35	76
Gale, Horatio, Albion, Mich. Horse hay-rake	342,084	May 18	1539	412	35	810
Gale, Morgan, near Santa Rosa, San Salvador, Central America. Anti-friction bearing	344,573	June 29	2558	662	35	1501

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Gallager, Charles S., *et al.* (See Harker, Henry K., assignor.)						
Gallagher, Abram, Mode, Ill. Stacking-derrick	350,824	Oct. 12	1027	274	37	194
Gallagher, Bernard, Lynn, Mass. Heel-trimming machine	341,803	May 11	1142	303	35	729
Gallagher, Eugene, assignor of one-half to M. Anderson, Bodie, Cal. Hay-press	351,104	Oct. 19	1439	377	37	275
Gallagher, John T., assignor of one-half to D. J. Kennedy, Chicago, Ill. Combined rasp and file	349,490	Sept. 21	1309	341	36	1305
Gallagher, Joseph P., St. Louis, Mo. Stench-trap	336,805	Feb. 23	2444	642	34	896
Gallagher, Patrick, assignor to himself and J. Murtaugh, New York, N.Y. Child's carriage	339,400	Apr. 6	408	100	35	76
Gallagher, Richard D., Plattsmouth, Nebr. Broom	335,808	Feb. 9	1022	270	34	631
Galland, Berthold, *et al.* (See West, Jonathan B., assignor.)						
Galland, Bonham, New York, N. Y. Cabinet steam or vapor bath	339,873	Apr. 13	1119	278, 279	35	205
Galland, George, and E. Groux, Wilkes-Barré, Pa. Gas-burner	344,900	July 6	148	38	36	27
Galligan, Michael J., Cedar Rapids, Iowa. Feed-water heater	345,778	July 20	1414	366	36	267
Gallinger, John R., Osakis, Minn. Rope-cutter	343,121	June 1	500	127	35	1096
Galloway, George A., Fountain, Ind. Fence	350,127	Oct. 5	39	11	37	10
Galloway, James B., Chicago, Ill. Hinge	347,341	Aug. 17	1208	323	36	704
Galloway, Joseph D., Belmont, Kans. Combination-tool	354,313	Dec. 14	983	260	37	1192
Galloway, William, Cardiff, county of Glamorgan, England. Tamp for blasting	353,488	Nov. 30	2469	660	37	953
Gallup, Silas N. (See Corser, Edson J., assignor.)						
Gallup, Silas N., assignor to L. Bickford, and H. M. Kirkpatrick, Macedon, N. Y. Gearing for changing speed	345,377	July 13	800	202	36	150
Gally, Merritt, New York, N. Y. Mechanical musical instrument	343,900	June 15	1619	412, 413	35	1316
Gally, Merritt, New York, N. Y. Organ-reed	344,443	June 29	2380	613	35	1468
Gally, Merritt, New York, N. Y. Musical instrument	344,646	June 29	2655	688	35	1520
Gally, Merritt, New York, N. Y. Mechanical musical instrument	346,152	July 27	1927	497, 498	36	369
Gally, Merritt, New York, N. Y. Mechanical musical instrument	351,171	Oct. 19	1526	400	37	293
Gally, Merritt, New York, N. Y. Mechanical musical instrument	351,172	Oct. 19	1528	401	37	293
Gally, Merritt, New York, N. Y. Pneumatic action for musical instruments	351,173	Oct. 19	1530	401	37	293
Gally, Merritt, New York, N. Y. Printing-press	352,237	Nov. 9	752	201	37	604
Galopin, Henri, Melbourne, and J. Evans, Auburn, Victoria. Incandescent gas-burner	354,977	Dec. 28	1923	508	37	1386
Galster, Gabriel J. W., New York, N. Y. Machine for cutting cloth	353,552	Nov. 30	2572	686, 687, 688	37	973
Galt, Thomas A., and G. S. Tracy, Sterling, Ill. Disk-seeder	336,711	Feb. 23	2321	608	34	874
Galt, William W., Norfolk, Va. Fracture apparatus	339,160	Apr. 6	60	19	35	14
Galusha, J. M., *et al.* (See Vladyka, Joseph, assignor.)						
Galvin, James A. (See McDonald, James L., assignor.)						
Galvin, John. (See Galvin, Thaddeus and J.)						
Galvin, Thaddeus and J., Detroit, Mich. Hydrant	337,945	Mar. 16	1435	372	34	1197
Galvin, William H., Ottawa, Ill. Bob-sleigh	337,827	Mar. 16	1271	329	34	1167
Gamard, Alfred, New Orleans, La. Folding coop	354,894	Dec. 28	1814	479	37	1365
Gambaro, Paul A., Paris, France. Car-brake	336,911	Mar. 2	41	11, 12	34	934
Gamble, John, East Newark, assignor of one-half to E. R. Parsil, Newark, N. J. Curtain-fixture	336,851	Feb. 23	2505	660	34	908
Gamble, William. (See Hoover and Brown, assignors.)						
Gandy Belt Manufacturing Company. (See Gandy, Maurice, assignor.)						
Gandy, Maurice, New Brighton, county of Cheshire, England, assignor to Gandy Belt Manufacturing Company, (limited.) Canvas belting	352,460	Nov. 9	1039	280	37	660
Gane, George A., assignor of one-half to F. A. Whitney, Leominster, Mass. Shirt	353,934	Dec. 7	405	109	37	1081
Gannon, Patrick, 107 St. George's Road, county of Surrey, England. Telephonic apparatus	349,839	Sept. 28	1799	465	36	1406
Ganoe, James W., Phillipston, Pa. Nut-lock	339,758	Apr. 13	972	240	35	177
Gans, Henry, Jr. (See Bechler, Charles W., assignor.)						
Gansz, Philip E., Lyons, N. Y. Door-roller	343,368	June 8	890	224	35	1176
Gantt, Henry L., Baltimore, Md. Converter for making Bessemer metal	343,448	June 8	1004	250	35	1196
Gantt, James T., Macon, Ga. Seed-planter	345,426	July 13	878	219	36	163
Garben, Adolph F. C., Minneapolis, Minn. Hub-attaching device	333,621	Jan. 5	162	44	34	32
Garcelon, Charles C. (See Woods and Garcelon.)						
Garcia, Domingo T., Guadalajara, Mexico. Clock	349,878	Sept. 28	1846	477	36	1416
Garcia, Domingo T., Guadalajara, Mexico. Electric clock	349,879	Sept. 28	1848	477	36	1416
Garcia, Domingo T., Guadalajara, Mexico. Watch	349,880	Sept. 28	1850	478	36	1416
Garcia, Joseph, New York, N. Y. Machine for cleansing and extracting fiber	355,073	Dec. 28	2060	541	37	1410
Gardan & Sons, W. (See Craven, Alfred, assignor.)						
Gardenier, A. B., *et al.* (See Chadsey, John N., assignor.)						
Gardiner, Nathan A., Virgil, N. Y. Loop-bar for harness	349,707	Sept. 28	1599	413	36	1368
Gardner & Co., Frederick A. (See Gardner, Frederick A., assignor.)						
Gardner, Edward, Allegheny, Pa. Meat-block	333,512	Jan. 5	24	7	34	7
Gardner, Elmer S. (See Noyes and Gardner.)						
Gardner, Ernest M., Brookline, Mass. Galvanic battery	342,508	May 25	2161	572	35	928
Gardner, Ernest M., Brookline, assignor to J. L. Little, Jr., Boston, Mass. Composition for secondary-battery electrodes	336,101	Feb. 16	1446	.....	34	712
Gardner, Ernest M., Brookline, assignor to J. L. Little, Jr., Boston, Mass. Electrode for secondary batteries	336,102	Feb. 16	1447	381	34	712
Gardner, Frederick A., assignor to F. A. Gardner & Co., Catskill, N. Y. Automatic valve-gear	352,238	Nov. 9	753	201	37	604
Gardner, Frederick N., assignor, by mesne assignments, to Pratt & Whitney Company, Hartford, Conn. Drafting-compasses	349,840	Sept. 28	1801	465	36	1406
Gardner, George, Winsted, Conn. Clock gong and bell	334,012	Jan. 12	706	194	34	140
Garden, George E., Lynn, Mass. Bench-stop	349,881	Sept. 28	1851	478	36	1417
Gardner, George P., Lynn, Mass. Rubber watch-protector	341,647	May 11	940	249	35	689
Gardner, Hubert. (See Corson, William P., assignor.)						
Gardner, James B., Boston, Mass., assignor to National Heeling Machine Company, Portland, Me. Heel-nailing machine and method of attaching heels	354,125	Dec. 14	697	186, 187	37	1141
Gardner, Jefferson M., assignor of two-thirds to Stewart & Bruckner, Nashville, Tenn. Cotton-gin	348,900	Sept. 7	492	130, 131	36	1138
Gardner, John J., Saulte Sainte Marie, Mich. Hinged sleigh-knee	347,103	Aug. 10	870	230	36	632
Gardner, John P. (See Keenan and Gardner.)						
Gardner, John T. (See Bentel and Gardner.)						
Gardner, John T. (See Zöller and Gardner.)						
Gardner, Marshall. (See Stone and Gardner.)						
Gardner, Marshall, assignor of one-half to J. Stone, Aurora, Ill. Eye for corset-clasps	335,911	Feb. 9	1172	312	34	658

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gardner, Marshall, assignor to J. Stone, Aurora, E. Florsheim, Chicago, and A. M. Ball, Aurora, Ill. Machine for making corset-stiffening	351,174	Oct. 19	1530	401, 402, 403	37	294
Gardner, Patrick P., Bradford, assignor of one-half to J. B. Martin, Kendall Creek, Pa. Cultivator, corn-planter, rake and roller	343,168	June 8	573	144	35	1120
Gardner, Thomas E., London, England. Soap tablet	354,186	Dec. 14	798	211	37	1159
Gardner, William F., Washington, D. C. Time ball and apparatus	334,167	Jan. 12	945	256	34	182
Gardner, William F., Washington, D. C. Time controlling and correcting system	335,186	Feb. 2	141	36, 37	34	466
Garfield, Joel. (See Bailey, Rich, and Garfield.)						
Garfield, John M., Galveston, Tex. Ventilating apparatus	349,491	Sept. 21	1311	341	36	1305
Gargrave, Amos, Yorkville, Ill. Bar-cutter	348,731	Sept. 7	268	72	36	1097
Garinger, Daniel W., Cleveland, Ohio. Opera-chair	348,552	Sept. 7	14	4	36	1051
Garland, Charles W., Oakland, Cal. Sewer-gas-trap mold	335,279	Feb. 2	272	71	34	489
Garland, Michael. (See Merrill, Charles A., assignor.)						
Garland, Michael, *et al.* (See Watson, Robert S., assignor.)						
Garland, Michael, Bay City, Mich. Double and gang edger	333,847	Jan. 5	478	130	34	89
Garland, Michael, Bay City, Mich. Chain-conveyer	344,178	June 22	2014	516	35	1394
Garland, Michael, Bay City, Mich. Chain-conveyer	345,497	July 13	974	247	36	181
Garland, Thomas H., Chicago, Ill. Music-leaf turner	348,323	Aug. 31	2629	709	36	982
Garland, William H., and H. Schulze-Berge, Rochester, Pa.; said Garland assignor to said Schulze-Berge. Sewing-machine	344,825	July 6	29	8	36	7
Garlick, Charles, Syracuse, N. Y. Stove or furnace	344,647	June 29	2657	688, 689	35	1520
Garlock, Olin J., Palmyra, N. Y. Piston-rod packing	334,579	Jan. 19	1539	412	34	298
Garlock, Wesley C. (See Ferris, Hudson, assignor.)						
Garlock, William H., Missoula, Mont. Ter. Smoke-stack	334,369	Jan. 12	1246	335	34	238
Garlock, William H., Cleveland, Ohio. Starching-machine	345,043	July 6	347	88	36	63
Garman, Adam M., Sinking Creek, Va. Gate-hinge	333,622	Jan. 5	163	44	34	32
Garner, Isaac F., and W. B. Hill, Carthage, Mo. Limekiln	338,056	Mar. 16	1586	413	34	1223
Garnier, Emile. (See Lecouteux and Garnier.)						
Garrand, Alfred A. (See Garrand, Edward and A. A.)						
Garrand, Edward and A. A., New York, N. Y. Device for hanging window-sashes	339,759	Apr. 13	973	240	35	177
Garratt, Charles R., Bridgeport, Conn. Mechanism for cutting double pile fabrics	334,947	Jan. 26	2020	538, 539	34	395
Garratt, William T. (See Pitchford, John B., assignor.)						
Garrett, Henry H., assignor of one-half to R. Bagaley, Pittsburg, Pa. Gas-furnace for melting metal in crucibles	343,122	June 1	500	127	35	1096
Garrett, Jackson B., assignor of one-half to A. I. Folsom, McGregor, Tex. Car-coupling	345,498	July 13	976	247	36	181
Garrett, Samuel. (See Koch and Garrett.)						
Garrett, William. (See Hemphill and Garrett.)						
Garrett, William, Pittsburg, Pa. Making tin-plate sheets	339,285	Apr. 6	247	61	35	46
Garrett, William T., Johnsontown, Va. Potato-digger	350,733	Oct. 12	893	239	37	170
Garrigues, George L., *et al.* (See Morehouse, Charles L., assignor.)						
Garrigues, Norman B., and S. Davis, Salem, Ohio. Machine for boring wells	336,403	Feb. 16	1897	496	34	791
Garrood, John C. Boston, Mass. Velocipede	348,276	Aug. 31	2567	690	36	969
Garsed, Robert P., Norristown, Pa. Buffer	341,568	May 11	834	222	35	668
Garst, Horace, Council Bluffs, Iowa. Head-screen	336,712	Feb. 23	2323	608	34	874
Garth, George S., Mill Hall, Pa. Straw-cutter	342,199	May 18	1673	447	35	835
Gartland, Elizabeth, Philadelphia, Pa. Chart for drafting garments	355,160	Dec. 28	2190	578	37	1436
Gartshore, William M. (See Herrick, James H., assignor.)						
Gartside, William N., Richmond, Ind. Core material	342,906	June 1	180	.....	35	1038
Gartzke, Gustav A., Milwaukee, Wis. Oil-can	347,789	Aug. 24	1858	495	36	832
Garvin & Co., E. E. (See Elmer, Albert E., assignor.)						
Garvin & Co., E. E. (See Garvin and Hadley, assignors.)						
Garvin, George K., and C. E. Hadley, assignors to E. E. Garvin & Co., New York, N. Y. Tapping-machine	342,866	June 1	128	32	35	1030
Garvin, Matthew, and W. J. Clokey, Toronto, Ontario, Canada, assignors to W. N. Whiteley, Springfield, Ohio. Mowing-machine	346,277	July 27	2103	541	36	403
Garwood, Justice G. S., assignor of one-half to J. H. McGaughey, Mount Victory, Ohio. Steam-boiler	339,093	Mar. 30	3047	805	34	1498
Gary, Harrison W., Plum Creek, Nebr. End-gate for wagons	350,734	Oct. 12	894	239	37	170
Gary, Harrison W., Plum Creek, Nebr. Gun-cleaner	352,405	Nov. 9	969	260	37	647
Gasca, Jesus, Guanajuato, Mexico. Liquid-emptier	343,764	June 15	1456	364	35	1284
Gascoine, John J., and G. A. Royce, Leicester, England. Manufacture of boots and shoes	339,286	Apr. 6	248	61, 62	35	46
Gascoine, John J., and G. A. Royce, Leicester, England. Boot or shoe	339,760	Apr. 13	974	240	35	178
Gas-Motoren-Fabrik-Deutz. (See Otto, Nicolaus A., assignor.)						
Gash, Edgar, Macomb, Ill. Carpet-stretcher	345,681	July 20	1273	330	36	242
Gasking, Alfred J., Enfield, county of Middlesex, England. Machine-belting	[illegible]	June 22	1902	487	35	1375
Gaskins, George H., Pantego, N. C. Mechanical detector	[illegible]	Aug. 24	2333	626	36	920
Gass, William G., Philadelphia, Pa. Device for transmitting power	[illegible]	Feb. 16	1898	497	34	791
Gast, John, Brooklyn, N. Y. Producing impressions in line or stipple from photographic negatives	344,648	June 29	2660	.....	35	1521
Gaszner, John P., assignor of one-half to F. Michaels, Fort Wayne, Ind. Spring curtain-roller	341,648	May 11	940	249	35	689
Gatehouse, Tom E. (See Alabaster and Gatehouse.)						
Gates, Charles, Lebanon, Pa. Combined plumb, level, and square	339,287	Apr. 6	249	62	35	46
Gates, Edwin L., assignor to Worcester Wire Company, Worcester, Mass. Wire-coating compound	348,391	Aug. 31	2722	.....	36	1001
Gates, Frank M., and E. D. Sargent, Newburyport, assignors to American Zylonite Company, Adams, Mass. Collar and cuff	341,742	May 11	1071	285	35	715
Gates, Frank W., New York, N. Y., assignor to Emery-Gates Sectional Ladder and Manufacturing Company of New York. Sectional ladder	336,227	Feb. 16	1645	430	34	745
Gates, Henry L., *et al.* (See Gowans, James A., assignor.)						
Gates Iron Works. (See Gates, Philetus W., assignor.)						
Gates, Philemon T., New York, N. Y. Parer, slicer, and corer	339,542	Apr. 6	633	154	35	115
Gates, Philetus W., assignor to Gates Iron Works, Chicago, Ill. Stone-breaker and ore-crusher	341,900	May 18	1283	343	35	763
Gates, Roswell W. (See Howard, Everett R., assignor.)						
Gates, Waldo L., Salterseville, assignor to W. H. Williams, Orange, N. J., and J. H. King, Brooklyn, N. Y. Galvanic battery	344,523	June 29	2498	644	35	1488
Gathmann, Louis, Chicago, Ill. Grain-drier	339,874	Apr. 13	1120	279	35	206
Gathmann, Louis, Chicago, Ill. Manufacture of products of lobated grain	342,249	May 18	1742	.....	35	848
Gathright, John R., Jeffersonville, Ind. Freight-car	337,828	Mar. 16	1271	330	34	1167
Gathright, Josiah B., Louisville, Ky. Automatic car-brake. (Reissue)	10,744	July 6	653	166	36	118

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gathright, Josiah B., Louisville, Ky. Automatic car-brake	353,672	Dec. 7	25	8	37	1011
Gathright, Josiah B., Louisville, Ky. Air-brake for cars	353,673	Dec. 7	28	8	37	1012
Gatling Gun Company. (See Bruce, Lucien F., assignor.)						
Gaulard, Lucien, and J. D. Gibbs, county of Middlesex, England, assignors to G. Westinghouse, Jr., Pittsburg, Pa. System of electric distribution	351,589	Oct. 26	2161	559	37	414
Gaumer, John W. (See McKeen and Gaumer.)						
Gaunt, Thomas T., and C. S. Allen, New York, N. Y. Package-holder	347,235	Aug. 10	1046	280	36	665
Gavin, Isabel, *et al.* (See Howe, Warren B., assignor.)						
Gavin, John E., New York, N. Y. Combined cigar-rest and match-safe	340,775	Apr. 27	2396	632	35	448
Gay, Adelbert S. (See King, Eugene D., assignor.)						
Gay, G. W. (See Jackson, George R., assignor.)						
Gay, Joshua G., Ottawa, Ill. Two-wheeled vehicle	337,258	Mar. 2	502	131	34	1019
Gay, Ware B., *et al.*, trustees. (See Wheeler, Elbridge, assignor.)						
Gayley, William C. (See Davies and Gayley.)						
Gaylord, Elam H. (See Jenkins and Gaylord.)						
Gaylord, Frank D. (See Hopkins, William H., assignor.)						
Gaylord, George C. (See Shattuck and Thorn, assignors.)						
Gaynor, E. F. J., *et al.* (See Barnes, William L., assignor.)						
Gaynor, Thomas F., Lexington, Ky. Rapid fire-signal	352,645	Nov. 16	1277	345	37	711
Gaynor, Thomas F., assignor to Lexington Manufacturing Company, Lexington, Ky. Fire-alarm box	335,025	Jan. 26	2127	566	34	414
Gaynor, Thomas F., assignor to Lexington Manufacturing Company, Lexington, Ky. Fire-alarm telegraphy	335,026	Jan. 26	2129	567	34	415
Gaynor, Thomas F., assignor to Lexington Manufacturing Company, Lexington, Ky. Fire-alarm signal	335,027	Jan. 26	2132	567	34	415
Gayton, Howard T., Lower Argyle, Nova Scotia, Canada. Windlass	337,571	Mar. 9	948	242	34	1103
Gazaille, Henry, and H. F. Low, Manchester, N H.; said Low assignor to said Gazaille. Air-pump	349,428	Sept. 21	1222	317	36	1287
Gazaille, Henry, and H. F. Low, Manchester, N. H.; said Low assignor to said Gazaille. Pneumatic cash system	349,708	Sept. 28	1600	413	36	1369
Gear, Lester H., Mentor, Iowa. Mouse-trap	338,399	Mar. 23	2062	540	34	1319
Gearhard, Jacob, New Salem, Ind. Tile-kiln	345,964	July 20	1666	431	36	312
Geariety, William, *et al.* (See Whelan, Thomas P., assignor.)						
Gearon, John, assignor to H. V. & T. Slutz, Alta, Iowa. Railway-tie	338,057	Mar. 16	1587	413	34	1223
Geary, John, *et al.* (See Harmer, Henry A., assignor.)						
Geary, John. (See Parker and Geary.)						
Geary, John, Philadelphia, Pa. Electric annunciator	349,580	Sept. 21	1430	369	36	1328
Geary, John, assignor of one-half to J. E. Shaw, Philadelphia, Pa. Electric annunciator	349,579	Sept. 21	1428	369	36	1328
Geary, John, assignor of one-half to J. E. Shaw, Philadelphia, Pa. Electric-circuit closer	354,858	Dec. 21	1752	463	37	1342
Geary, Michael, Oil City, Pa. Reciprocating steam-engine	347,104	Aug. 10	871	230, 231	36	633
Geary, Morton W., Lock Haven, assignor of one-half to J. D. Brown, Snow Shoe, Pa. Watch-key	339,875	Apr. 13	1121	279	35	206
Gebhard, Annie L. (See Durell and Gebhard.)						
Gebhard, Lorenz. (See Batt, John B., assignor.)						
Gebhard, Lorenz. (See Miller, John, assignor.)						
Gebhardt, Fridrick, Alliance, Ohio. Cheese-making apparatus	354,314	Dec. 14	983	260, 261	37	1192
Gedge, Burton C., Covington, Ky. Wire-nail machine	342,001	May 18	1406	375	35	785
Gedge, Burton H., Covington, Ky. Die for making wire nails	338,730	Mar. 30	2527	668	34	1407
Gedge, Burton H., Covington, Ky. Electric railway-signal	344,099	June 22	1903	488	35	1375
Gedge, Burton H., Covington, Ky. Electric signal for railway-switches	344,100	June 22	1906	488	35	1375
Geer, Adelbert L., Plymouth, Mich. Metallic hame-fastener	341,743	May 11	1072	285	35	715
Geer, Erastus, Lebanon, Conn. Window-frame	340,776	Apr. 27	2398	632	35	448
Geer, George, Peterborough, N. H. Pneumatic door-check	335,575	Feb. 9	685	180, 181	34	570
Geery, Samuel W., Newark, F. W. Jackson and C. B. Day, East Orange, N, J. Shutter for photographic cameras	335,518	Feb. 2	599	155, 156	34	547
Gefoert, Elisabeth, Brooklyn, N. Y. Tracing-wheel	351,027	Oct. 19	1339	351	37	257
Gehl, Henry, *et al.* (See Rogers, William, assignor.)						
Gehnrich, Hermann, New York, N. Y. Candle-holder for Christmas-trees	347,873	Aug. 24	1985	526	36	855
Gehret, Henry A., assignor of one-half to W. F. Marks, Reading, Pa. Car-door fastener	350,977	Oct. 19	1243	331	37	240
Geib, David W., assignor of two-thirds to W. S. Michael and J. R. Goodell, Lancaster, Pa. Shutter-worker	342,348	May 25	1919	507	35	887
Geiger, J. J. (See Wood, Irving T., assignor.)						
Geiger, Leonard, Hudson, N. Y. Projectile	343,269	June 8	719	179	35	1146
Geise, Henry, Philadelphia, Pa. Hose-conduit for railways	351,371	Oct. 26	1804	474	37	348
Geiser, Joseph, Covington, Ky. Window-sash lock	343,580	June 15	1195	300	35	1237
Geisert, William, New York, N. Y. Beer-vent	345,583	July 13	1122	287	36	207
Geisler, Henry, Manitowoc, Wis. Wash-tub stand	343,023	June 1	336	86	35	1068
Geismar, Leo. (See Muser, Adolph, assignor.)						
Geiss, Adolph, Chicago, Ill. Lamp-burner	353,674	Dec. 7	30	9	37	1012
Geissinger, Annie E., assignor of one-half to G. B. Geissinger, Allegheny, Pa. Step-ladder	346,437	July 27	2332	600	36	445
Geissinger, George B. (See Geissinger, Annie E., assignor.)						
Gelatt, Wallace W., Kansas City, Mo. Blotting-pad holder	337,391	Mar. 9	685	179	34	1059
Gellman, Charles. (See Shenfield and Gellman.)						
Gemmell, Robert, Columbus, Ontario, Canada. Car-coupling	352,534	Nov. 16	1125	304	37	684
Genese, David, Baltimore, Md. Respirator	346,367	July 27	2225	571	36	426
Geneux, Emile C., Jeanerette, La. Lantern-holder	344,649	June 29	2660	690	35	1521
Geneux, Emile C., Jeanerette, La. Lantern-holder for vehicles	349,307	Sept. 21	1042	266	36	1253
Geneva Optical Company. (See Culbertson, Howard, assignor.)						
Genuert, Emil F., Brooklyn, N. Y. Rotary display-body	352,646	Nov. 16	1282	345	37	712
Gennet, Paul, and J. Wyman, Jr., Cochranton, Pa. Automatic safety-valve	349,389	Sept. 21	1172	303	36	1278
Gent, Joseph F., Columbus, Ind. Machine for making sheets of ground cereals	347,790	Aug. 24	1859	495	36	833
Gentesse, Cammille, Montreal, Quebec, Canada. Toboggan	348,962	Sept. 14	577	153	36	1159
Gentry, John T. (See Gentry, William F. L., assignor.)						
Gentry, William F. L., assignor of one-half to J. T. Gentry, Chapman, Kans. Fender	354,978	Dec. 28	1924	509	37	1386
Genung, William H., Madison, Ohio. Revolving show-frame	349,883	Sept. 28	1855	479	36	1417
George, Alexander G., New Lexington, Ohio. Fire-proof compound and articles made from the same	343,810	June 15	1508	.....	35	1294
George, David J., Minneapolis, Minn. Wash-board	346,991	Aug. 10	695	184	36	602
George, David W., Milton, Iowa. Washing-machine	350,735	Oct. 12	896	240	37	170
George, James A., Southbridge, Mass. Device for straightening carriage-axles	347,588	Aug. 17	1556	414	36	769
George, William E., and H. Horney, Harlan, Iowa. Stock-wagon	338,508	Mar. 23	2208	579	34	1346

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Georgie, F. Moritz, Sr., Chatsworth, Ill. Curtain and screen holder	337,572	Mar. 9	949	243	34	1103
Gepford, William, West Salem, Ohio. Fence	352,815	Nov. 16	1506	405	37	734
Gerald, Amos F., Fairfield, Me. Cabinet-stand	335,576	Feb. 9	687	181	34	570
Geralds, Du Bois F., Clintondale, N. Y. Refrigerator-house	333,553	Nov. 30	2574	688	37	973
Gérard, John, and C. F. Smith, assignors to Landers, Frary & Clark, New Britain, Conn. Carving-fork	345,044	July 6	348	88	36	63
Gérard-Léscuyer, Jean M. A., Paris, France. Electric-arc lamp	336,635	Feb. 23	2216	578	34	853
Gérard-Léscuyer, Jean M. A., Paris, France. Dynamo-electric machine	336,636	Feb. 23	2218	578 / 579	34	853
Gérard-Léscuyer, Jean M. A., Paris, France. Incandescent electric lamp	336,637	Feb. 23	2221	579	34	853
Gerard, William L., Emporia, Kans. Colter	351,631	Oct. 26	2228	576	37	426
Gerber, Charles, assignor of three-fourths to L. C. Erwin and J. H. Thomas, York, Pa. Sod-cutter and cultivator combined	339,401	Apr. 6	409	100	35	76
Gerber, Mahlon A., and E. J. Nicholas, Lost Creek, Pa. Whiffletree	344,574	June 29	2559	662	35	1501
Gerber, Mahlon A., and E. J. Nicholas, Lost Creek, Pa. Picture-frame attachment	354,315	Dec. 14	985	261	37	1192
Gerbing, Lorenzo P., assignor to himself and C. W. Widney, Wymore, Nebr. Cabinet	317,055	Mar. 2	230	61	34	968
Gercke, Rudolf O., Augusta, Ga. Car-starter	348,732	Sept. 7	269	72	36	1097
Gere, Emily H. (See Truesdell, Lewis W., assignor.)						
Gere, William C., Syracuse, N. Y. Key-fastener	347,170	Aug. 10	963	257	36	650
Gerehart, Thomas, *et al.* (See Barnes, William L., assignor.)						
Gerhardt, John, Montreal, Quebec, Canada. Steam-governor	349,492	Sept. 21	1312	341	36	1305
Gerhardt, John, assignor to himself and S. Davis, Montreal, Quebec, Canada. Compensation-pendulum	352,461	Nov. 9	1040	280	37	661
Gerken, John H., Inwood-on-the-Hudson, N. Y. Churn	337,573	Mar. 9	950	243	34	1103
Gerlach, Henry. (See Adams, Paul H., assignor.)						
Gerlach, Rudolph P., Cleveland, Ohio. Lubricator	337,392	Mar. 9	686	179	34	1059
German, Llewellyn, Allentown, Pa. Thill-coupling	341,744	May 11	1072	285	35	715
Gerow, Daniel T., *et al.* (See Gilman, Everett P., assignor.)						
Gerow, Orr, Brockville, Ontario, Canada. Fruit-jar	342,250	May 18	1743	463	35	848
Gerrard, Edward A., assignor to himself and C. W. Zeigler, Columbus, Nebr. Hay rake and loader	335,519	Feb. 2	601	156	34	547
Gerrish, J. J. (See Lidback, John A., assignor.)						
Gerry, James H. (See Hunter and Gerry.)						
Gerry, James H., Brooklyn, N. Y., assignor to M. E. Hunter, Oakland, Cal. Electro-mechanical synchronizer for clocks	349,493	Sept. 21	1314	342	36	1306
Gerry, James H., Brooklyn, N. Y., and M. E. Hunter, Oakland, Cal.; said Gerry assignor to said Hunter. Pneumatic mechanical synchronizer for clocks	349,494	Sept. 21	1316	342	36	1306
Gerst, Michael, Paso Robles, Cal. Angle-hanger for acoustic or mechanical telephones	353,489	Nov. 30	2470	660	37	953
Gerstenberg, Frederick C., Astoria, N. Y. Plumber's trap	340,777	Apr. 27	2398	632	35	448
Geseen, Alfred, and J. Tyler, South Chicago, Ill. Folding table	348,733	Sept. 7	270	73	36	1097
Gessner, Gustavus A., Fremont, Ohio. Bottle-stopping mechanism	347,031	Aug. 10	759	202	36	613
Gesswein, Frederick W. (See Crowell and Gesswein.)						
Getchell, Augustus W., Cleveland, Ohio. Tumbling-barrel	349,936	Sept. 28	1920	497	36	1430
Getchell, Augustus W., Cleveland, Ohio. Car-truck	352,535	Nov. 16	1125	304	37	684
Getchell, Augustus W., assignor of one-eighth to T. W. Ensign, Cleveland, Ohio. Car-truck	333,623	Jan. 5	164	44	34	33
Getchell, Fred O., Augusta, Me. Machine for printing oil-cloths, &c	352,123	Nov. 9	582	155 / 156	37	575
Getman, Henry W. (See Flanders, Moses J., assignor.)						
Getman, Henry W., Ilion, N. Y. Wrench	349,581	Sept. 21	1431	369	36	1329
Gettel, Josiah M., Lebanon, H. C. Grittinger, Cornwall, and J. H. Killinger, Lebanon, Pa.; said Grittinger and Killinger assignors to said Gettel. Apparatus for charging blast-furnaces	350,534	Oct. 12	605	167 / 168	37	117
Gettel, Josiah M., Lebanon, H. C. Grittinger, Cornwall, and J. H. Killinger, Lebanon, Pa.; said Grittinger and Killinger assignors to said Gettel. Winch	350,926	Oct. 19	1163	309 / 310	37	226
Getty, William B., Hicksville, Ohio. Road-cart	349,882	Sept. 28	1853	478	36	1417
Getz, Reuben J., *et al.* (See Oberlander, Lorenz, assignor.)						
Geyer, George, Brooklyn, N. Y. Cabbage-cutting machine	335,912	Feb. 9	1174	312	34	658
Geyer, John W., West Millgrove, Ohio. Rocking toothed harrow and leveler	347,791	Aug. 24	1861	495	36	833
Ghegan, John J., Newark, N. J. Automatic electric liquid-level indicator and controller	347,589	Aug. 17	1558	414	36	769
Ghegan, John J., Newark, N. J. Automatic electric liquid-level indicator	352,647	Nov. 16	1284	345	37	712
Ghezzi, Romeo E., assignor to himself and V. Del Genovese, New York, N. Y. Umbrella-casing	337,145	Mar. 2	350	91	34	990
Gholson, William C., Cincinnati, Ohio. Wire-fence stay	337,259	Mar. 2	503	131	34	1019
Gholson, William C., Cincinnati, Ohio. Fence-stay	344,264	June 22	2130	544	35	1415
Gholson, William C., Cincinnati, Ohio. Wire-fence supporter	350,825	Oct. 12	1028	275	37	194
Gholson, William C., Cincinnati, Ohio. Wire-fence binder	352,406	Nov. 9	970	260	37	647
Gholson, William C., Cincinnati, Ohio. Wire fence	353,129	Nov. 23	1957	523	37	849
Gholson, William C., Cincinnati, Ohio. Gate for wire fences	353,130	Nov. 23	1958	524	37	849
Ghormley, Justus M. (See Sweeney and Ghormley.)						
Gianelli, Bernardo. (See Darrow, Leslie M., assignor.)						
Gibbens, William H., Watson, N. Y. Harness	340,304	Apr. 20	1735	442	35	322
Gibbins, James, Springfield, Mass. Hydraulic elevator-engine	337,056	Mar. 2	232	61, 62	34	968
Gibbon, Richard, Mobeetie, Tex. Sash-fastener	338,837	Mar. 30	2678	705	34	1434
Gibbon, Thomas H., assignor to Metallic Steel Railway Supply Company, Albany, N. Y. Construction of railway-tracks	347,236	Aug. 10	1047	280	36	665
Gibboney, William, Jr., Wytheville, Va. Suture-instrument	349,791	Sept. 28	1731	447	36	1392
Gibbons, John, assignor to Meneely Hardware Company, West Troy, N. Y. Car-axle oiler	334,013	Jan. 12	707	194 / 195	34	140
Gibbons, John, assignor to Meneely Hardware Company, West Troy, N. Y. Roller-bearing for shafts and axles	336,103	Feb. 16	1448	381	34	713
Gibbons, John, assignor to Meneely Hardware Company, West Troy, N. Y. Roller-bearing for shafts and axles. (Reissue)	10,787	Dec. 7	621	170	37	1120
Gibbons, John, West Troy, and C. D. Meneely, Albany, assignor to Meneely Hardware Company, West Troy, N. Y. Bicycle	351,972	Nov. 2	352	97	37	524
Gibbons, John, West Troy, and C. D. Meneely, Albany, assignors to Meneely Hardware Company, West Troy, N. Y. Velocipede	353,935	Dec. 7	406	109 / 110	37	1081
Gibbons, Francis J. J., Wolverhampton, county of Stafford, England. Velocipede	340,109	Apr. 20	1441	364	35	269
Gibbons, Michael, St. Louis, Mo. Automatic derrick and crane platform	349,582	Sept. 21	1431	370	36	1329
Gibbons, Robert E. (See Manring and Gibbons.)						
Gibbs, Callie F. (See Just, Fletcher, and Gibbs.)						
Gibbs, Elmer W. (See Gibbs, William and E. W.)						
Gibbs, Eugene H., assignor to Ludlow Toy Manufacturing Company, Ludlow, Vt. Draw-iron for wagons	337,393	Mar. 9	688	179	34	1059
Gibbs, Frank J., Philipsburg, Pa. Rein-holder	351,758	Nov. 2	41	11	37	466

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gibbs, George. (See Howard, Bousfield, and Gibbs.)						
Gibbs, H. A., *et al.* (See Brosnan, Cornelius J., assignor.)						
Gibbs, Henry W. (See Howard and Gibbs.)						
Gibbs, James E. A. (See Wilcox and Gibbs.)						
Gibbs, John D. (See Gaulard and Gibbs.)						
Gibbs, Lewis, assignor to Bucher, Gibbs & Co., Canton, Ohio. Plow	335,348	Feb. 2	368	96	34	507
Gibbs, Lewis, assignor to Bucher, Gibbs & Co., Canton, Ohio. Gang-plow	335,913	Feb. 9	1175	312	34	658
Gibbs, Sam. (See Whitmore, Samuel K., assignor.)						
Gibbs, William and E. W., Canton, Ohio. Post-hole digger	334,653	Jan. 19	1643	439	34	318
Gibbs, William H. (See Albaugh and Gibbs.)						
Giberson, Alfred J., Boston, Mass. Filter	343,519	June 8	1096	275	35	1213
Gibson, Charles D. P., assignor to Gibson Electric Company, New York, N. Y. Storage-battery	342,594	May 25	2267	601	35	950
Gibson Electric Company. (See Gibson, Charles D. P., assignor.)						
Gibson, George G., St. Louis, Mo. Street-scraper and snow-plow	338,262	Mar. 23	1863	489 / 490	34	1285
Gibson, J. Harper, New York, N. Y., assignor to American Railway Signal Company of Illinois. Railway-signal	351,319	Oct. 19	1726	454	37	328
Gibson, John W., and C. C. Harris, Denver, Colo. Saw-filing machine	346,541	Aug. 3	116	31	36	483
Gibson, Lyman B., assignor of one-half to T. E. Harden, Addison, N. Y. Stump-puller	354,054	Dec. 7	585	159	37	1112
Gibson, Selden F., assignor of one-half to W. H. Stevens, Portland, Me. Stove-hook	339,637	Apr. 13	801	197	35	147
Gibson, Selden F., and F. M. Lawrence; said Lawrence assignor to W. H. Stevens, Portland, Me. Stove-door knob	349,642	Sept. 21	1502	389	36	1344
Gibson, William, *et al.* (See Penman, William, assignor.)						
Gibson, William D., *et al.* (See Herboldshimer, John B., assignor.)						
Gibson, William D., *et al.* (See Moody, William F., assignor.)						
Giebeler, Ernst A. C., Berlin, Germany, assignor to J. J. De Kinder, Philadelphia, Pa. Valve	335,221	Feb. 2	196	52	34	475
Gieffels, John J., and J. Thomas, Detroit, Mich. Car-coupling	350,927	Oct. 19	1165	310	37	226
Giesey, John H., Dubuque, Iowa. Seat-fastener	354,015	Dec. 7	532	145	37	1103
Giesler, Arthur, Dayton, Ohio. Anti-friction shaft-bearing	348,392	Aug. 31	2723	731	36	1001
Gifford, Alenza T., Hopedale, Mass. Electric lamp	351,973	Nov. 2	355	97, 98	37	524
Gifford, Clarence B. (See Abell and Gifford.)						
Gifford, Clarence T., administrator. (See Knowles, Lewis G.)						
Gifford, George, Philadelphia, assignor of one-fourth to S. P. Wolverton, Sunbury, Pa. Vehicle-top	352,816	Nov. 16	1507	406	37	755
Gifford, George T., Colebrook, assignor of one-half to A. A. Chapman, Warren County, Ill. Automatic car-brake	350,128	Oct. 5	40	11, 12	37	10
Gift, Jonathan, Star, Wis. Clamp	344,101	June 22	1908	488	35	1375
Gilbert, Charles H. H., Brockton, Mass. Shoe	351,591	Oct. 26	2167	560	37	415
Gilbert, Charles M. (See Macy and Gilbert.)						
Gilbert, David K. (See Chambers, Thaddeus, assignor.)						
Gilbert, Edmund D. (See Gordon and Gilbert.)						
Gilbert, Edward F., *et al.* (See Armitage, Albert, assignor.)						
Gilbert, Edwin, Georgetown, Conn. Wire-netting machine	341,230	May 4	367	101	35	572
Gilbert, Frank E. (See Wilcox, Theodore B., assignor.)						
Gilbert, Franklin T., Walla Walla, Wash. Ter. Rotary water-meter	348,277	Aug. 31	2568	690	36	969
Gilbert, Franklin T., assignor to O. Hull, Walla Walla, Wash. Ter. Gang-hoe	351,628	Oct. 19	1340	352	37	257
Gilbert, George A., Lincoln, Ill. Magnetic separator	348,121	Aug. 24	2334	626	36	920
Gilbert, George A., and R. Wilcox, Milwaukee, Wis. Conveyer for grain, &c	349,390	Sept. 21	1173	304	36	1278
Gilbert, George D., Corry, assignor to R. S. Battles, Girard, Pa. Steam-engine	348,458	Aug. 31	2821	758	36	1019
Gilbert, George H., Philadelphia, Pa. Circular-knitting machine	351,590	Oct. 26	2164	559 / 560	37	414
Gilbert, Henry J., Dayton, Ohio. Roller-mill	348,554	Sept. 7	16	5	36	1051
Gilbert, Henry J., assignor to Stout, Mills & Temple, Dayton, Ohio. Roller-mill	348,553	Sept. 7	15	4	36	1051
Gilbert, Isaac R., Charlestown, Ind. Wheel-plow	353,628	Nov. 30	2682	718 / 719	37	992
Gilbert, Jabez C. (See Boyden, William A., assignor.)						
Gilbert, James T., Amherst Court-House, Va. Invalid-lounge	349,089	Sept. 14	760	194	36	1189
Gilbert, Jarius H., assignor to T. B. Hagstoz & Co., Philadelphia, Pa. Eyeglass-frame	352,462	Nov. 9	1041	280	37	661
Gilbert, Joseph L., Lebanon, Oreg. Baling-press	352,686	Nov. 16	1340	361 / 362	37	723
Gilbert, Nathan S., *et al.* (See Zimmerman, Arnold W., assignor.)						
Gilbert, Orvellas H., Newark, N. J. Door knob and escutcheon	335,349	Feb. 2	371	96	34	508
Gilbert, Orvellas H., Newark, N. J. Latch-operating device	335,914	Feb. 9	1177	313	34	658
Gilbert, Orvellas H., Newark, N. J. Latch-operating device	345,297	July 13	694	175	36	131
Gilbert, William H., Philadelphia, Pa. Feed mechanism for button-hole sewing-machine attachments	339,985	Apr. 13	1269	316 / 317	35	233
Gilbert, William H., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Holder for gas-inhalers	340,778	Apr. 27	2399	632	35	449
Gilbert, William T., Oswego, Kans. Window catch and lock	351,261	Oct. 19	1646	432	37	314
Gilchrest, James, Chicago, Ill. Mowing-machine	347,481	Aug. 17	1411	375 / 376	36	741
Gilchrist, Daniel J., Bergen Point, N. J. Machine for raising phosphate rock	352,311	Nov. 9	851	229 / 230	37	623
Gildersleeve, Gilbert S., Gratton, Va. Car-coupling	352,239	Nov. 9	756	202	37	604
Giles, Charles K. (See Fenner, Richard E., assignor.)						
Giles, Charles K., and R. E. Fenner, Chicago, Ill.; said Fenner assignor to said Giles. Apparatus for demagnetizing watches	345,838	July 20	1496	388	36	281
Giles, David, Chattanooga, Tenn. Pipe-testing machine	334,524	Jan. 19	1462	392	34	284
Giles, David, Chattanooga, Tenn. Apparatus for producing cast-metal pipe	339,402	Apr. 6	410	100 / 101	35	76
Giles, Delos, Cheshire, Mich. Gate	335,028	Jan. 26	2133	567	34	415
Giles, Edwin L., Lowell, Mass. Three-way switch for store-service	333,743	Jan. 5	344	93	34	64
Giles, Edwin L., Lowell, Mass. Switch for store-service	333,744	Jan. 5	346	93, 94	34	65
Giles, Edwin L., Lowell, Mass. Three-way switch	333,745	Jan. 5	347	94	34	65
Giles, Robert D., Detroit, Mich. Car-coupling	339,543	Apr. 6	633	155	35	115
Gilfillan, Frederic C., Duke Centre, Pa. Automatic gas-fuel regulator	351,045	Oct. 19	1362	358	37	261
Gilfillan, Essington N., and W. W. Krutsch, Fort Scott, Kans. Reversible chair and table	342,002	May 18	1407	375 / 376	35	785
Gilfillan, William, assignor to Sargent & Co., New Haven, Conn. Spring-hinge	353,853	Dec. 7	283	75	37	1058
Giljohan, Robert, *et al.* (See Russell, Edward A., assignor.)						
Gilkeson, Thomas E., Loda, Ill., assignor to Case & Willard Thresher Company, Battle Creek, Mich. Thrashing-machine	334,857	Jan. 26	1910	509	34	375

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gilkison, Appleton T., *et al.* (See Handy, Henry P., assignor.)						
Gill, Frederick (See Raper, Pearson, and Gill.)						
Gill, George M., Mexico, Mo. Metallic panel for doors and other uses	349,583	Sept. 21	1433	370	36	1329
Gill, John, Knapp's Creek, N. Y. Combined spear and socket for oil-wells	351,632	Oct. 26	2229	576	37	426
Gill, John L., Jr., Philadelphia, Pa. Steam-boiler	335,750	Feb. 9	936	247	34	615
Gill, William, Toronto, Ontario, Canada. Brake-shoe	344,102	June 22	1909	488	35	1376
Gilleas, Hugh, Waterloo, Iowa. Safety guard-rail	348,734	Sept. 7	272	73	36	1098
Gillespie, James E., assignor to Warwick Machine Company, Warwick, N. Y. Folding extension-ladder and truck therefor	345,427	July 13	879	219	36	163
Gillespie, James E., assignor to Warwick Machine Company, Warwick, N. Y. Device for converting motion	349,429	Sept. 21	1224	317	36	1288
Gillespie, Thomas A. (See McSweeney, Terrence, assignor.)						
Gillespie, Thomas G., Campbellford, and M. S. Cassan, Seymour, county of Northumberland, Ontario, Canada. Horse-collar fastening	334,370	Jan. 12	1246	336	34	238
Gillet, Joseph, assignor to Société Gillet et Fils, Lyons, France. Dyeing apparatus	345,892	July 20	1572	405, 406	36	294
Gillett, George M., Larned, Kans. Pipe-wrench	338,731	Mar. 30	2529	668	34	1407
Gillett, Leonard C., Brownsdale, Minn. Door-sill	350,427	Oct. 5	438	125	37	86
Gillett, William R. (See Simpson, Abijah, assignor.)						
Gillette, Mott G., New York, N. Y. Construction of barrels, &c	338,948	Mar. 30	2832	747	34	1463
Gillette, Mott G., New York, N. Y. Drawer-pull	334,547	Dec. 21	1307	317	37	1258
Gillette, Mott G., New York, N. Y. Bung	354,859	Dec. 21	1754	464	37	1342
Gillette, Mott G., New York, N. Y., and L. King, Newark, N. J., assignors to Eureka Tap Valve Company, New York, N. Y. Tap-valve and tap-valve faucet	346,438	July 27	2333	600, 601	36	445
Gillham, Robert. (See Bullock, Chester, assignor.)						
Gillham, Robert, Kansas City, Mo. Cable railway	336,561	Feb. 23	2107	554	34	835
Gillham, Robert, Kansas City, Mo. Cable railway	345,378	July 13	801	202	36	150
Gillham, Robert J., Orlando, Fla. Guard for railway-cars	345,045	July 6	349	88	36	63
Gilliam, Algernon, Canton, Ohio. Harness-saddle	334,116	Jan. 12	866	237	34	168
Gilliam, Algernon, Canton, Ohio. Harness-saddle	335,809	Feb. 9	1023	270	34	631
Gilliam, Algernon, Canton, Ohio. Tool-handle	338,264	Mar. 23	1866	490	34	1286
Gillies, William. (See Kriete and Gillies.)						
Gilliland, Daniel C., Mechanicsville, Iowa. Marker for corn and seed planters	353,215	Nov. 23	2080	556	37	873
Gilliland, Ezra T. (See Edison and Gilliland.)						
Gilliland, Ezra T., Boston, Mass. Electric-call generator	335,693	Feb. 9	848	224	34	599
Gilliland, Ezra T., assignor to American Bell Telephone Company, Boston, Mass. Automatic circuit-changer	334,014	Jan. 12	709	195	34	140
Gilliland, Ezra T., assignor to American Bell Telephone Company, Boston, Mass. Electric signaling apparatus	336,562	Feb. 23	2109	554, 555	34	835
Gilliland, Ezra T., assignor to American Bell Telephone Company, Boston, Mass. Looping-in switch	336,563	Feb. 23	2116	555	34	836
Gilliland, Ezra T., assignor to American Bell Telephone Company, Boston, Mass. Telephone	343,449	June 8	1006	251	35	1196
Gilliland, John K., assignor of one-half to M. E. Gilliland, Gadsden, Ala. Combined cultivator and corn-planter	342,791	June 1	24	7	35	1011
Gilliland, M. E. (See Gilliland, John R., assignor.)						
Gilliland, Samuel B., Monroe City, Mo. Horse hay-rake	337,574	Mar. 9	951	244	34	1104
Gillinder, Frederick R., Philadelphia, Pa. Muffle for earthenware, &c	337,575	Mar. 9	952	244	34	1104
Gillingham, Henry R. (See Andrews and Gillingham.)						
Gillis, Cyrus W., San Antonio, Tex. Gate	338,058	Mar. 16	1588	413	34	1224
Gillis, Peter, Boston, Mass. Window-fastener	341,745	May 11	1073	285	35	716
Gillman, Alexander W. (See Perry, Gillman, and Spencer.)						
Gillman, John W., Milwaukee, Wis. Barrel-lowering device	351,592	Oct. 26	2168	560, 561	37	415
Gillmore, Nathan C., Laramie City, Wyo. Ter. Chute for branding cattle and horses	350,484	Oct. 12	543	150, 151	37	107
Gilman Cash Railway Company. (See Blount and Kimpton, assignors.)						
Gilman Cash Railway Company. (See Blount, Kimpton, and Gilman, assignors.)						
Gilman Cash Railway Company. (See Gilman, Willard H., assignor.)						
Gilman, Charles C., Eldora, Iowa. Fire-proof ceiling	337,829	Mar. 16	1273	330	34	1167
Gilman, Charles C., Eldora, Iowa. Construction of wooden buildings	338,509	Mar. 23	2209	580	34	1346
Gilman, Charles C., Eldora, Iowa. Fire-proof floor	338,510	Mar. 23	2209	580	34	1347
Gilman, Charles C., Eldora, Iowa. Pavement	338,511	Mar. 23	2211	580	34	1347
Gilman, Charles C., Eldora, Iowa. Fire-proof post and column	338,512	Mar. 23	2212	580	34	1347
Gilman, Charles C., Eldora, Iowa. Fire-proof floor and ceiling	338,513	Mar. 23	2214	581	34	1347
Gilman, Charles C., Eldora, Iowa. Outer wall of buildings	338,514	Mar. 23	2214	581	34	1347
Gilman, Charles C., Eldora, Iowa. Roof	338,515	Mar. 23	2215	581	34	1347
Gilman, Charles C., Eldora, Iowa. Floor-arch	338,516	Mar. 23	2216	581	34	1347
Gilman, Charles C., Eldora, Iowa. Construction of fire-proof floors and ceilings	338,517	Mar. 23	2216	582	34	1348
Gilman, Charles C., Eldora, Iowa. Electrical subway	338,518	Mar. 23	2218	582	34	1348
Gilman, Charles C., Eldora, Iowa. Sidewalk	340,569	Apr. 27	2109	543	35	399
Gilman, Charles C., Eldora, Iowa. Roof	340,570	Apr. 27	2110	543	35	399
Gilman, Charles C., Eldora, Iowa. Filtering cistern or vat	341,649	May 11	942	249	35	689
Gilman, Charles C., Eldora, Iowa. Water-filtering well or reservoir	341,650	May 11	943	250	35	689
Gilman, Charles C., Eldora, Iowa. Filtering material	341,651	May 11	945	250	35	690
Gilman, Charles C., Eldora, Iowa. Roof-garden	342,595	May 25	2270	602	35	950
Gilman, Charles C., Eldora, Iowa. Construction of tunnels	345,046	July 6	350	88	36	64
Gilman, Charles C., Eldora, Iowa. Porous earthenware gravel for bedding ties in bridge-work, &c	345,047	July 6	351	.....	36	64
Gilman, Charles C., Eldora, Iowa. Fire-proof floor-arch	345,379	July 13	803	202	36	150
Gilman, Charles C., Eldora, Iowa. Mansard roof	349,584	Sept. 21	1434	370	36	1329
Gilman, Charles C., Eldora, Iowa. Porous earthenware product with strengthening-cores	349,585	Sept. 21	1435	370	36	1330
Gilman, Charles C., Eldora, Iowa. Fire-proof compound	353,629	Nov. 30	2687	.....	37	993
Gilman, Charles C., Eldora, Iowa. Producing building material	353,630	Nov. 30	2688	.....	37	993
Gilman, Charles C., Eldora, Iowa. Making porous earthenware	353,631	Nov. 30	2690	.....	37	993
Gilman, Everett P., assignor of three-fourths to E. D. Rockwell and D. T. Gerow, Jacksonville, Fla. Sash lock and holder	345,779	July 20	1415	366	36	267
Gilman, John H., assignor to King & Hamilton Company, Ottawa, Ill. Wheel-cultivator	336,310	Feb. 16	1770	463	34	767
Gilman, Lewell J., C. W. Frost, and C. H. Foster, Santa Rosa, Cal. Harvester	339,761	Apr. 13	975	241	35	178
Gilman, Willard H. (See Blount, Kimpton, and Gilman.)						
Gilman, Willard H., assignor to Gilman Cash Railway Company, Boston, Mass. Cash and parcel transmitting apparatus	337,830	Mar. 16	1274	330	34	1168
Gilmore, Isaac C. H. (See Hostetter and Gilmore.)						
Gilmore, James, De Witt, Iowa. Fire-wood-sawing machine	333,848	Jan. 5	482	130	34	89

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gilmore, Othniel, North Raynham, Mass. Sole-leveling machine	344,650	June 29	2661	690	35	1521
Gilmour, James C. (See Copland and Gilmour.)						
Gilpatrick, John B. (See Blakely and Gilpatrick.)						
Gilroy, Thomas F., New York, N. Y. Glass-beveling machine	344,179	June 22	2015	516	35	1394
Gilson, Samuel H., *et al.* (See Seabodt, Bert, assignor.)						
Gincley, Charles R., West Chester, Pa. Carpet-stretcher	353,058	Nov. 23	1859	502	37	828
Gingras, Timothy, Buffalo, N. Y. Belting	335,187	Feb. 2	143	37	34	467
Gingras, Timothy, Buffalo, N. Y. Curry-comb	337,057	Mar. 2	233	62	34	968
Ginna & Co. (See Hipperling, William, assignor.)						
Ginna, Michael, New York, N. Y. Sofa-bed	338,949	Mar. 30	2833	747	34	1463
Gionis, Marie, New York, N. Y. Artificial fruit	340,470	Apr. 27	2523	664	35	471
Ginther, Henry S., Bridgeport, Ill. Fence	336,405	Feb. 16	1899	497	34	791
Giralt, Alberto, Cardenas, Cuba. Truss	347,171	Aug. 10	964	257	36	651
Girard, Alfred W. (See Girard, Joseph N., assignor.)						
Girard, Joseph N., assignor, by mesne assignments, to said J. N. and A. W. Girard, Ipswich, Mass. Combined tool	345,630	July 13	1188	305	36	220
Girard, Louis. (See Préchette and Girard.) (Reissue.)						
Girard Stove Works. (See Gobeille, Joseph L., assignor.)						
Girdwood, John, Carrickfergus, Ireland. Remedy for asthma	333,513	Jan. 5	24	.....	34	8
Girdwood, Norman W., Asheville, N. C. Injector	338,950	Mar. 30	2835	747	34	1464
Girein, Franz, Burly-Jacky, near Sheet-of-Bark, county of Bathurst, New South Wales. Propulsion of ships	334,580	Jan. 19	1539	412	34	299
Giroux, Eugene L. (See Thielsen, Giroux, and Dilg.)						
Gish, Rufus G., Redfield, Kans. Medical compound	333,746	Jan. 5	348	.....	34	65
Gissinger, Samuel, Pittsburg, assignor to J. H. Noble, Hulton, Pa. Faucet	342,349	May 25	1920	507	35	887
Given, Carl E. (See Soule and Given, assignors.)						
Given, John, Mount Lookout, Ohio. Attachment for lawn-mowers	355,074	Dec. 28	2061	541	37	1410
Given, John S., Jr., and F. F. Martinez, Jr., New York, N. Y. Urinal	345,584	July 13	1123	287	36	207
Given, Philonzo F. (See Soule and Given.)						
Gjers, John, Middlesbrough-on-Tees, England. Soaking-pit for steel ingots	335,915	Feb. 9	1179	313	34	968
Gjers, John, Middlesbrough-on-Tees, England. Soaking-pit for steel ingots	342,200	May 18	1676	447	35	835
Gjers, John, Middlesbrough-on-Tees, England. Soaking-pit for steel ingots	342,251	May 18	1743	463	35	848
Glace, Adam D., Rocklin, Cal. Check-valve	349,586	Sept. 21	1436	371	36	1330
Gladding & Coombs Brothers. (See Gladding, Frank H., assignor.)						
Gladding, George S. (See Perry and Gladding.)						
Gladding, Frank H., assignor to Gladding & Coombs Brothers, Providence, R. I. Sleeve-button	341,901	May 18	1286	344	35	764
Glaister, Thomas S., Sonoma, Cal. Valve attachment for wine-casks	335,751	Feb. 9	938	247	34	615
Glaister, Thomas S., Sonoma, Cal. Fermenting-bung	353,854	Dec. 7	286	76	37	1059
Glanville, William L., Auburn, N. Y. Electric alarm	346,587	Aug. 3	171	46	36	493
Glaser, Jacob and J., Philadelphia, Pa. Newspaper-file	337,678	Mar. 9	1072	277	34	1125
Glaser, John. (See Glaser, Jacob and J.)						
Glasgow, Frank, Osceola Mills, Pa. Electric alarm for time-pieces	352,407	Nov. 9	971	260	37	647
Glass, David W., Baltimore, Md. Copying-book or the like	335,916	Feb. 9	1180	314	34	659
Glass Decoration Company. (See Pratt, James, assignor.)						
Glass, George H., and W. Clark, Raleigh, N. C. Telephonic signaling and switching system	340,911	Apr. 27	2573	678	35	479
Glass, George H., and W. Clark, Raleigh, N. C. Circuit-breaker for telephone-lines	340,912	Apr. 27	2574	678	35	480
Glass, Jacob, assignor of one-half to O. T. Curry, Harrisburg, Ohio. Check for doors and gates	340,871	Apr. 27	2524	664	35	471
Glass, John B. (See Shultz, Joseph T., assignor.)						
Glassner, Victor. (See Stögermayr, Franz F., assignor.)						
Glazebrook, Henry G. T., Woodhouse, Ontario, Canada. Wagon-rack	355,262	Dec. 28	2339	615, 616	37	1466
Glazier, George W., Salem, Mass. Gluing-machine	346,992	Aug. 10	696	185	36	602
Glazier, John J., *et al.* (See Adams, Joseph, assignor.)						
Glazier, William H., *et al.* (See Adams, Joseph, assignor.)						
Gleason, Benjamin F., Brockport, N. Y. Corpse-supporting table	348,626	Sept. 7	130	37	36	1071
Gleason, Charles H., Kalamazoo, Mich. Two-wheeled vehicle	335,350	Feb. 2	372	97	34	508
Gleason, Elliott P., Brooklyn, N. Y. Gas-test gage	341,841	May 11	1195	320	35	740
Gleason, Frank J., Van Wert, Ohio. Saw-mill set-works	351,974	Nov. 2	358	98	37	525
Gleason, John W., Ballston, N. Y. Mop-wringer	347,590	Aug. 17	1559	414	36	773
Gleason, Joseph J., New York, N. Y. Automatic billiard-register	343,169	June 8	577	144	35	1120
Gleason, Sarah E., Tacoma, Wash. Ter. Baby-walker	354,895	Dec. 28	1815	479	37	1365
Gleason, Timothy, Red Wing, Minn. Tamping-bar	354,698	Dec. 21	1536	407	37	1300
Glen Cove Machine Company. (See Gray, William H., assignor.)						
Glen Cove Manufacturing Company. (See Grimm, Paul H., assignor.)						
Glenn, Charles J., *et al.* (See Bigelow, Edmund B., assignor.)						
Glenn, Edmund L., assignor to Wright Brothers & Co., Philadelphia, Pa. Umbrella-tie	338,223	Mar. 16	1812	473	34	1268
Glenn, John S., Chicago, Ill. Balanced rotary valve	335,188	Feb. 2	144	37	34	467
Glennon, Joseph, Chicago, Ill. Hammock-supporter	349,216	Sept. 14	928	238	36	1295
Glidden, Charles A., Tenant's Harbor, Me. Portable wardrobe	351,860	Nov. 2	191	53, 54	37	494
Glidden, Charles W., Lynn, assignor to J. W. Brooks, trustee, Cambridge, Mass. Heel-nailing machine	347,482	Aug. 17	1414	376	36	741
Glidden, Charles W., Lynn, assignor to J. W. Brooks, trustee, Cambridge, Mass. Heel-making machine	350,051	Sept. 28	2070	535, 536, 537	36	1458
Glidewell, Ulysses G. (See Seibert, Thomas B., assignor.)						
Globe Button Hole Machine Company. (See Reed and Beale, assignors.)						
Globe Drug and Capsule Company. (See Krehbiel, John, assignor.)						
Globe Files Company. (See Leaman, Robert F., assignor.)						
Globe Files Company. (See Yeiser and Seybold, assignors.)						
Globe Seat Company. (See Davidson, John M., assignor.)						
Globe Sewing Machine Company. (See Harlow and Angell, assignors.)						
Globe Tool Company. (See Rouse, Seymour A., assignor.)						
Glock, Rudolph, and S. Moon, Green, Kans. Hoof-parer	338,400	Mar. 23	2062	541	34	1319
Glor, Peter, Jr. (See McVicar and Glor.)						
Glover, Alfred R., Clayton, Ind. Water-gate	341,471	May 11	702	188	35	642
Glover, Almon B., Birmingham, Conn. Machine for heading bolts	335,280	Feb. 2	373	72, 73	34	489
Glover, George T., Chicago, Ill. Traction-engine	342,596	May 25	2270	602	35	950
Glover, Griff. (See Duryea, Charles E., assignor.)						
Glover, John M., *et al.* (See Kensett, James W., assignor.)						
Glover, Lycurgus S., Marion, Kans. Individual call apparatus	352,948	Nov. 23	1688	453, 454	37	798

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Glover, Nathaniel B. (See Clarke, Joseph W., assignor.)						
Gluecksmann, Joseph, St. Louis, Mo. Spring-shoe	337,146	Mar. 2	352	91	34	991
Gmehlin, Paul, New York, N. Y. Mute-bar damper for upright pianos	353,301	Nov. 30	2201	589	37	903
Gobeillé, Joseph L., and W. Wicke, Cleveland, Ohio, assignors to Terstegge, Gohmann & Co., Albany, Ind. Balance-blower for stoves and grates	349,217	Sept. 14	929	238	36	1222
Gobeille, Joseph L., Cleveland, assignor to Girard Stove Works, Girard, Ohio. Adjustable blower for stoves and fire-places	350,194	Oct. 5	134	39	37	28
Goble, E. W. (See Rivers, Thomas L., assignor.)						
Gocht, Karl L., Chemnitz, Saxony, Germany. Locking device for securing wood, &c., to iron beams	338,059	Mar. 16	1589	414	34	1224
Goddard, Calvin. (See Rankin, Abram G. W., assignor.)						
Goddard, James R., assignor of one-half to W. Goddard, New Bedford, Mass. Device for operating steam-engine indicators	337,147	Mar. 2	353	91	34	991
Goddard, Silas W., Worcester, Mass. Spooling-machine	355,161	Dec. 28	2191	578	37	1436
Goddard, William. (See Goddard, James R., assignor.)						
Goddu Improvement Company of Maine. (See Goddu, Louis, assignor.)						
Goddu Improvement Company. (See Van Wagenen and Goddu, assignors.)						
Goddu, Louis. (See Van Wagenen and Goddu.)						
Goddu, Louis, Winchester, Mass. Loom-shuttle	344,369	June 29	2284	587	35	1451
Goddu, Louis, Winchester, Mass., assignor to Goddu Improvement Company of Maine. Safety device for cable roads	349,344	Sept. 21	1086	279	36	1262
Goddu, Louis, Winchester, Mass., assignor to Goddu Improvement Company of Maine. Loom-shuttle	353,405	Nov. 30	2353	627	37	930
Goddu, Louis, Winchester, assignor to J. W. Brooks, trustee, Cambridge, Mass. Machine for threading wire	351,372	Oct. 26	1805	475	37	348
Godfrey, Alfred, New Reddish, county of Lancaster, England. Reciprocating-platen printing-machine	344,265	June 22	2131	544, 545, 546, 547	35	1416
Godfrey, Charles H., Fremont, Nebr. Water-supply system	336,997	Mar. 2	153	41	34	953
Godfrey, Edward C., Pittsburg, Pa. Device for crimping paper sacks	349,391	Sept. 21	1174	304	36	1279
Godfrey, Henry M., Jonesburg, Mo. Plow	335,917	Feb. 9	1181	314	34	659
Godfrey, Thomas F., assignor to Seely Manufacturing Company, Detroit, Mich. Revolving show-rack	353,554	Nov. 30	2575	688	37	973
Goding, Marshall R., Portland, Me. Centrifugal speed-governor	334,581	Jan. 19	1540	412	34	299
Godley, George F., Philadelphia, Pa. Heater	348,555	Sept. 7	17	5, 6	36	1051
Godley, George F., Philadelphia, Pa. Composition of matter for the manufacture of axle-bearings	354,126	Dec. 14	701	.....	37	1142
Godman, Solomon H., Indianapolis, Ind. Bridge	349,345	Sept. 21	1088	279	36	1262
Godman, Solomon H., assignor of one-half to W. C. Whitehead, Indianapolis, Ind. Bridge	336,104	Feb. 16	1449	382	34	713
Godshalk, Edward H., Philadelphia, Pa. Take-up for knitting-machines	345,130	July 6	456	118	36	83
Goebel, John C., Chicago, Ill. Hat or cap	345,965	July 20	1668	431	36	312
Goeble, Peter. (See Babcock, William H., assignor.)						
Goeggel, Francis, assignor of one-half to J. T. Sluggett, St. Louis, Mo. Bushing-punch for watch-makers	341,652	May 11	946	250	35	690
Goehring, John R., assignor to H. and T. B. Belfield, Philadelphia, Pa. Double-tube injector	353,490	Nov. 30	2471	660	37	953
Goelet, Edward B., Fort Worth, Tex. Car-seat	354,127	Dec. 14	702	187, 188	37	1142
Goeller, Christian, and J. J. Moore, Portsmouth, Ohio. Piston-packing	341,138	May 4	233	69	35	548
Goercks, Bernhard, *et al.* (See Rocker, Christopher, assignor.)						
Goertz, August, Newark, N. J. Bag-frame fastening	334,654	Jan. 19	1645	439	34	318
Goertz, August, Newark, N. J. Fastening for satchel and pocket-book frames	352,687	Nov. 16	1343	363	37	725
Goertz & Co., August. (See Eiterich, Otto P., assignor.)						
Goessmann, Benno, Saginaw, Mich. Hame	335,123	Feb. 2	31	10	34	446
Goettel, John, Boston, Mass. Car-truck	348,459	Aug. 31	2821	758	36	1019
Goetz, Fritz. (See Brada, Charles, assignor.)						
Goetz, George W., Cleveland, Ohio. Tapping-hole for furnaces	334,015	Jan. 12	710	195	34	111
Goetz, Theodore, New York, N. Y. Caster	341,139	May 4	233	69	35	548
Goetzenberger, Joseph J., and O. S. Wangsnes, Minneapolis, Minn. Sod-cutting attachment for plows	333,849	Jan. 5	483	131	34	90
Goewey, George, Philadelphia, Pa., assignor of one-half to J. G. Shaw, Biddeford, Me. Spring	339,762	Apr. 13	977	241	35	178
Goez, Herman, *et al.* (See Rocker, Christopher, assignor.)						
Goff, Daniel. (See Morell and Goff.)						
Goff, Daniel, Millville, assignor of three-fourths to Taylor Brothers, Camden, J. L. Smith, Millville, N. J., and W. H. Melcher, Philadelphia, Pa. Snow and ice guard for horses' hoofs	351,633	Oct. 26	2230	576	37	426
Goff, Daniel, Millville, assignor of three-fourths to Taylor Brothers, Camden, J. L. Smith, Millville, N. J., and W. H. Melcher, Philadelphia, Pa. Snow and ice guard for horses' hoofs	351,634	Oct. 26	2230	577	37	426
Goff, Francis C., Englewood, Ill. Coffin	348,963	Sept. 14	577	153	36	1159
Goff, Nathan D., *et al.* (See Barker, Henry C., assignor.)						
Goforth, William, Windsor, Mo. Washing-machine	336,480	Feb. 16	2002	524	34	810
Goforth, William, Windsor, Mo. Sash-pulley	350,195	Oct. 5	136	39	37	29
Gogin, George. (See Maher, John N., assignor.)						
Gogin, George W., *et al.*, trustees. (See Wheeler, Elbridge, assignor.)						
Gogin, George W., Boston, Mass., and G. Jones, Washington, D. C.; said Jones assignor to said Gogin. Gas apparatus	336,912	Mar. 2	46	12	34	935
Gold, Edward E., New York, N. Y. Hose-coupling	349,991	Sept. 28	1998	516	36	1444
Gold, Edward E., New York, N. Y. Steam-trap	350,880	Oct. 12	1101	294	37	208
Gold, Joseph S., assignor to Economy Manufacturing Company, Columbus, Ohio. Spinning-top	346,637	July 20	1774	456	36	330
Gold, Joseph S., assignor to O. D. Jackson, Columbus, Ohio. Spinning-top	347,032	Aug. 10	761	202	36	613
Gold, Samuel F., Englewood, N. J. Automatic water-feeder	354,700	Dec. 21	1652	437	37	1322
Goldbach, Ferdinand, Brooklyn, N. Y. Extension-table	343,307	June 8	778	195	35	1156
Goldberger, Ignacz, Cleveland, Ohio. Box	352,746	Nov. 16	1412	381	37	738
Golde, Charles, Union, N. J. Shed construction	335,577	Feb. 9	688	181, 182	34	570
Golden, Thomas, New York, N. Y. Horse-boot	336,105	Feb. 16	1451	382	34	713
Goldie, George, Princeton, N. J., assignor of one-half to P. Ross, New York, N. Y. Exercising-machine	339,638	Apr. 13	802	197	35	147
Golding, William H., Chelsea, Mass. Composing-stick	347,591	Aug. 17	1560	414	36	770
Golding, William H., Chelsea, Mass. Type-case and galley support	352,817	Nov. 16	1508	406	37	755
Goldman, Isaac S., Pasadana, Cal. Motor	347,705	Aug. 17	1741	464	36	8[illegible]2

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Goldman, Moses, Pittsfield, Mass. Sprinkler	334,655	Jan. 19	1645	439	34	318
Goldner, William C., Boston, Mass., assignor to Chemical Electric Light and Power Company, Portland, Me. Galvanic battery	348,901	Sept. 7	494	131	36	1138
Goldschmid, Theodore J., Philadelphia, Pa. Trap for ammonia refrigerating apparatus	346,038	July 20	1775	457	36	330
Goldsmith, Gustavus A. (See Merrill, Alfred K., assignor.)						
Goldsmith, Gustavus A. (See Pusey, Joshua, assignor.)						
Goldsmith, Gustavus A., New York, N. Y. Pen-holder	351,832	Nov. 2	140	39	37	832
Goldsmith, John S., New York, N. Y. Check-ticket for messenger service	337,762	Mar. 9	1175	306	34	1143
Goldsmith, John S., New York, N. Y. Cheroot, cigarette, and cigar bunch machine	339,403	Apr. 6	412	101, 102	35	77
Goldsmith, John S., New York, N. Y. Life-preserver for vehicles	347,269	Aug. 10	1093	292, 293	36	674
Goldsmith, John S., New York, N. Y. Shaving-cup	348,160	Aug. 24	2393	642	36	931
Goldstein, Abraham. (See Bernstein and Goldstein.)						
Goldstein, Jacob, New York, N. Y. Sifter for flour, &c	342,597	May 25	2275	602	35	951
Goldstein, Joseph A., Brooklyn, N. Y. Cable-gripping device	350,585	Oct. 12	682	185, 186	37	131
Goldthwait, Charles, Weymouth, Mass. Boot and shoe cleaner	344,733	June 29	2765	716	35	1539
Goldthwait, David E., assignor to C. Grant, Jr., Boston, Mass. Insole	343,990	June 22	1743	449	35	1346
Goldwater, Henry, New York, N. Y. Apparatus for vaporizing liquids	335,281	Feb. 2	277	73	34	490
Goltzinsky, Valerian V., and P. O. Rvmaschefski, Moscow, Russia. Electric-arc lamp	343,811	June 15	1509	380	35	1294
Gollon, Frank G., Hoboken, N. J. Wind-wheel toy	340,872	Apr. 27	2525	665	35	471
Golt, Almon. (See Livingstone, Frederick D., assignor.)						
Goltstein, Joseph, Liege, Belgium. Lock for fire-arms	351,262	Oct. 19	1647	433	37	314
Gomersall, James H. (See Smalley, Joseph, assignor.)						
Gomez, Robert. (See Potter and Gomez.)						
Gonon, Paul E. (See Diemer and Gonon.)						
Gooch, Harold, assignor of one-half to A. B. Scarborough and M. A. Bridges, Bonham, Tex. Rein-holder	349,154	Sept. 14	848	216	36	1207
Gooch, Wheatley G., and J. Olsen, Bellingham, Wash. Ter. Washing-machine	346,473	Aug. 3	33	8	36	467
Good, Brent. (See Cowper, Edward A., assignor.)						
Good, Brent, *et al.* (See Valentine, Robert G., assignor.)						
Good, Christian and S., Wengerlawn, Ohio. Car-coupling	335,752	Feb. 9	939	247	34	615
Good, Francis H., Philadelphia, Pa. Carpet-cleaner	348,460	Aug. 31	2824	759	36	1020
Good, George P., and R. B. Collier, Columbus, Ohio. Railway-car cover	337,831	Mar. 16	1277	331	34	1168
Good, Israel F., Allentown, Pa. Combined railway tie and chair	344,826	July 6	34	9	36	8
Good, James W., *et al.* (See Valentine, Robert G., assignor.)						
Good, John, Brooklyn, N. Y. Spindle and flier	349,709	Sept. 28	1602	413, 414	36	1369
Good, John, Brooklyn, N. Y. Controlling the unwinding of thread, twine, and cord from bobbins and spools	352,312	Nov. 9	853	230	37	623
Good, Martin R., New Holland, Pa. Harness-bridle	334,168	Jan. 12	247	256	34	183
Good, Solomon. (See Good, Christian and S.)						
Goodale, George W., Concord, Mass. Potato-grater	352,536	Nov. 16	1127	304	37	684
Goodale, Henry B. (See Rousseau, Goodale, and Côté.)						
Goodale, John, Cambridge, assignor to J. B. Crawford, trustee, Boston, Mass. Refrigerator	337,394	Mar. 9	689	180	34	1059
Goodall, John N. (See Seavey and Goodall.)						
Goodbody, William, New York, N. Y. Folding box	345,298	July 13	697	175	36	131
Goode, Amasa S., Old Frame, Pa. Automatic compressed-air brake	353,446	Nov. 30	2408	643, 644	37	941
Goodell, Abner C., *et al.* (See Rogers, Columbus K., assignor.)						
Goodell, Andrew S. (See Smith, Julius, assignor.)						
Goodell Company. (See Oaks, William A. C., assignor.)						
Goodell, Dexter W., assignor to Florence Machine Company, Florence, Mass. Sewing-machine stand	348,004	Aug. 24	2173	578	36	889
Goodell, Dexter W., assignor to Florence Machine Company, Florence, Mass. Device for controlling the driving-wheels of sewing-machines	354,055	Dec. 7	587	160	37	1113
Goodell, Dexter W., and O. N. Kyle, assignors to Florence Machine Company, Florence, Mass. Lamp-stove	343,535	June 8	1114	281	35	1216
Goodell, Joseph R., *et al.* (See Grob, David W., assignor.)						
Goodell & Waters. (See Butterfield, Alfred G., assignor.)						
Goodell & Waters. (See McLellan, Charles H., assignor.)						
Goodell & Waters. (See Myrick, Gilbert S., assignor.)						
Goodell, Zina, *et al.* (See Rogers, Columbus K., assignor.)						
Goodenow, Albert L., Utica, N. Y. Damper	336,228	Feb. 16	1647	430	34	746
Goodenow, Albert L., Utica, N. Y. Grate	351,507	Oct. 26	2040	529	37	392
Goodier, Nicholas, Dardenelle, Ark. Ax	353,447	Nov. 30	2414	644	37	943
Goodman, Frederick A. (See Goodman, Joseph, Sr., F. A., and J. F.)						
Goodman, Henry, assignor to D. P. Kane, St. Louis, Mo. Revolver	352,185	Nov. 9	688	184	37	592
Goodman, Henry M. and R. S., Louisville, Ky. Draw-box	354,056	Dec. 7	589	160	37	1113
Goodman, John P. and J., Plymouth, Pa. Stop-block	348,735	Sept. 7	273	73	36	1098
Goodman, Joseph. (See Goodman, John P. and J.)						
Goodman, Joseph, Sr., F. A., and J. F., Detroit, Mich. Truck for moving houses	348,005	Aug. 24	2174	578	36	890
Goodman, Julius F. (See Goodman, Joseph, Sr., F. A., and J. F.)						
Goodman Manufacturing Company, B. (See Smith, William E., assignor.)						
Goodman, Reesetta S. (See Goodman, Henry M. and R. S.)						
Goodman, Samuel N., Philadelphia, Pa. Exercising-machine	341,231	May 4	369	101, 102	35	573
Goodman, Simon, Dayton, Ohio. Shoe-box label	354,896	Dec. 28	1815	480	37	1365
Goodnight, Jacob, Montevallo, Mo. Fastening for bridges and culverts	353,355	Nov. 30	2275	607	37	915
Goodnough, John, Indianapolis, Ind. Cultivator	333,514	Jan. 5	25	8	34	8
Goodnow, Daniel W. (See Goodnow, Leslie H. and D. W.)						
Goodnow, Leslie H. and D. W., East Sullivan, N. H. Folding table	348,901	Aug. 31	2466	662	36	950
Goodnow, Leslie H. and D. W., East Sullivan, N. H. Drawer attachment for tables	351,635	Oct. 26	2231	577	37	426
Goodrich, Belle and T. E., Shelbyville, Ind. Gossamer cloak	353,743	Dec. 7	127	35, 36	37	1010
Goodrich, Harry C., Chicago, Ill. Ruffling attachment for sewing-machines	333,515	Jan. 5	27	8	34	8
Goodrich, Harry C., Chicago, Ill. Ruffling attachment for sewing-machines	333,516	Jan. 5	29	8	34	8
Goodrich, Harry C., Chicago, Ill. Blotter-support	341,604	May 11	1144	303	35	729
Goodrich, Leven S., Warner, Tenn. Apparatus for the manufacture of charcoal	342,201	May 18	1677	448	35	836
Goodrich, Leven S., Warner, Tenn. Charcoal-kiln	342,202	May 18	1679	448	35	836
Goodrich, Leven S., Warner, Tenn. Manufacturing charcoal	345,131	July 6	457	.....	36	84
Goodrich, Leven S., Warner, Tenn. Apparatus for purifying gases	345,132	July 6	459	118	36	84
Goodrich, Thomas E. (See Goodrich, Belle and T. E.)						
Goodridge, John C., Jr., New York, N. Y. Culvert or water-way	354,897	Dec. 28	1816	480	37	1365

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Goodson, John W., Morrisburg, Ontario, Canada. Remedy for piles	348,278	Aug. 31	2570	.....	36	969
Goodspeed, Henry C. (See Grant, Goodspeed, and Foote.)						
Goodwillie, Walter S., Cambridge, Mass. Fire-escape	333,624	Jan. 5	165	45	34	33
Goodwin, Adolphus D., assignor to D. G. Bowyer, Lexington, Va. Door-closer	346,742	Aug. 3	364	98	36	532
Goodwin, Caleb. (See Goodwin, Leonard R., assignor.)						
Goodwin, Charles E., Saybrook, Ohio. Lock for fire-arms	342,509	May 25	2162	572	35	929
Goodwin, Charles S., *et al.* (See Heath, Henry R., assignor.)						
Goodwin, Charles S., *et al.* (See Palmer, Noyes F., assignor.)						
Goodwin, F. (See Shaffer, Abraham, assignor.)						
Goodwin, Hannibal, Newark, N. J. Bed for zincographic presses	348,736	Sept. 7	274	73, 74	36	1098
Goodwin, Harry L., New York, N. Y. Water-closet	352,745	Nov. 16	1414	382	37	728
Goodwin, John E., Memphis, Tenn. Manufacturing from wood excelsior and material for wood pulp	349,992	Sept. 28	2000	516, 517	36	1444
Goodwin, John E., Memphis, Tenn. Machine for making excelsior and material for wood pulp for paper-making	350,358	Oct. 5	343	98, 99	37	70
Goodwin, Leonard R., assignor of one-half to C. Goodwin, Chicago, Ill. Necktie-holder	346,993	Aug. 10	697	185	36	602
Goodwin, Oliver H., assignor to E. Caswell, San Francisco, Cal. Musical-key indicator	337,320	Mar. 2	593	156	34	1035
Goodwin, R. D., *et al.* (See Howe, Patrick, assignor.)						
Goodwin, Sands H. (See Rowlands, John R., assignor.)						
Goodwin, Seth W., Toledo, Ohio. Turning-lathe	353,302	Nov. 30	2202	589	37	903
Goodwin, Thomas A., assignor of one-half to E. Dismant, Camden, N. J. Stair-rod securer	347,792	Aug. 24	1862	496	36	833
Goodwin, William H. (See Hartigan, William R., assignor.)						
Goodyer, Charles, and W. Morse, Warren, Pa. Clothes-drier	334,656	Jan. 19	1646	440	34	318
Gookin, Allen S., *et al.* (See Barnes, William L., assignor.)						
Göransson, Ernst F., Stockholm, Sweden. Bottling-machine	339,053	Mar. 30	2990	791, 792	34	1489
Gord, Axel, Grant Park, Ill. Hay-press	338,592	Mar. 23	2311	605, 606	34	1363
Gordon, Alexander. (See Perry and Gordon.)						
Gordon, Alexander, assignor to Niles Tool Works, Hamilton, Ohio. Lathe	340,207	Apr. 20	1593	403	35	297
Gordon, Alma C. Dunlap, Ill. Fire-alarm	338,503	Mar. 23	2314	606	34	1364
Gordon, Davis D., assignor of one-half to H. W. Kistler, Stroudsburg, Pa. Clothes-rack	351,373	Oct. 26	1808	475	37	349
Gordon, Edwin, Hyde Park, Mass. Railway-switch and switch-stand	348,006	Aug. 24	2175	579	36	890
Gordon, Fred, Sioux Falls, Dak. Ter. Spark-arrester	336,311	Feb. 16	1772	464	34	767
Gordon, Fred. W., assignor to Gordon, Strobel & Laureau, Philadelphia, Pa. Hot-blast conduit	340,110	Apr. 20	1442	365	35	269
Gordon, Fred. W., assignor to Gordon, Strobel & Lawreau, Philadelphia, Pa. Tuyere-pipe for blast-furnaces	349,841	Sept. 28	1802	466	36	1406
Gordon, Irving S., *et al.* (See Thompson, William H., assignor.)						
Gordon, James E. H., 28 Collingham Place, Kensington, county of Middlesex, England. Electric lighting	354,781	Dec. 21	1655	437, 438	37	1322
Gordon, James E. H., 28 Collingham Place, Kensington, county of Middlesex, England. Lighting railways and other signal lanterns by electricity	354,782	Dec. 21	1656	438	37	1323
Gordon, James E. H., 28 Collingham Place, Kensington, county of Middlesex, England. System of electric lighting	354,783	Dec. 21	1658	438	37	1323
Gordon, James F., Rochester, N. Y. Grain harvesting and binding machine	341,842	May 11	1196	320, 321, 322	35	740
Gordon, James F., deceased, Rochester, N. Y., M. A. Gordon, executrix. Grain harvesting and binding machine	349,848	Sept. 28	1804	466	36	1407
Gordon, James T., and J. H. Hamilton, Concord, N. H. Sliding-door latch	336,638	Feb. 23	2221	579	34	854
Gordon, James T., and J. H. Hamilton, assignors of one-third to S. Barrett, Concord, N. H. Sliding-door latch	345,048	July 6	352	89	36	64
Gordon, John B. (See Brown, Robert, assignor.)						
Gordon, John, Jr., Dundee, county of Forfar, Scotland. Apparatus for discharging oil on water for calming the same	339,054	Mar. 30	2992	792	34	1490
Gordon, Marion J., Caldwell, Tex. Fence	354,408	Dec. 14	1101	295	37	1215
Gordon, Mary A., executrix. (See Gordon, James F.)						
Gordon, Melvin B. and W. Y., Davisville, Cal. Gate	338,401	Mar. 23	2063	541	34	1320
Gordon, Perkins A., Milan, Ohio. Combined pan and stove-cover lifter	344,524	June 29	2500	644	35	1489
Gordon, Selden S., Brooklyn, N. Y. Button	349,038	Sept. 14	687	177	36	1177
Gordon, Strobel & Lawreau. (See Gordon, Fred. W., assignor.)						
Gordon, Thomas, Philadelphia, Pa. Gas-burner	345,499	July 13	977	247	36	181
Gordon, Upton M. (See Miller, Frank, assignor.)						
Gordon, Walter S., Atlanta, Ga. Coal-mining machine	345,500	July 13	979	248	36	181
Gordon, William, assignor of one-half to A. Fuller, Boston, and E. C. Judd, Lynn, Mass. Sole or heel edge burnishing machine	352,866	Nov. 16	1573	424	37	768
Gordon, William J., and E. D. Gilbert, Philadelphia, Pa. Machine for making sheet-metal water-conductors	343,024	June 1	337	86, 87, 88, 89, 90	35	1069
Gordon, William J., and E. D. Gilbert, Philadelphia, Pa. Sheet-metal water-conductor	343,025	June 1	347	90	35	1070
Gordon, William Y. (See Gordon, Melvin B. and W. Y.)						
Gordorn, Charles C., *et al.* (See Wheeler, Clarence L., assignor.)						
Gore, Russell L., Carlisle, Ky. Coffee-pot	343,812	June 15	1511	380	35	1295
Gorham, George E., Albany, N. Y. Anti-sash-rattling device	340,945	Apr. 27	2621	690	35	488
Gorly, John A., Pattonville, Mo. Check-rein hook	334,769	Jan. 26	1800	479	34	356
Gormly, John T., Troy, N. Y. Spoke-socket	340,571	Apr. 27	2111	544	35	399
Gormly, Robert W., Troy, N. Y. Landing and cast-off attachment for knitting-machines	346,743	Aug. 3	365	98	36	532
Gornall, Richard, assignor of one-half to G. A. Dubreuil, Baltimore, Md. Store-service apparatus	342,252	May 18	1744	464	35	848
Gornall, Richard, assignor of one-half to G. A. Dubreuil, Baltimore, Md. Store-service apparatus	342,253	May 18	1747	464, 465	35	849
Gornall, Richard, assignor of one-half to G. A. Dubreuil, Baltimore, Md. Store-service apparatus	342,254	May 18	1750	465	35	850
Gornall, Richard, assignor of one-half to G. A. Dubreuil, Baltimore, Md. Store-service apparatus	342,255	May 18	1752	465	35	850
Gornall, Richard, assignor of one-half to G. A. Dubreuil, Baltimore, Md. Store-service apparatus	342,256	May 18	1755	466	35	851
Görnicki, Sylvester. (See Schulze, Theodor, assignor.)						
Gorny, Jacob, Houston, Tex. Car-coupling	346,039	July 20	1776	457	36	330
Gorrell, Charles L., assignor of two-thirds to A. B. and O. M. Whitaker, Belair, Md. Stock-car	333,747	Jan. 5	349	94, 95	34	65
Gorris, James, Cleveland, Ohio. Speaking-tube	339,639	Apr. 13	804	197	35	147

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gorsuch, Benjamin F., Martinsburg, Pa. Fifth-wheel	354,784	Dec. 21	1660	439	37	1323
Gorton, Charles, New York, N. Y. Steam-generator	334,657	Jan. 19	1647	440	34	319
Goss, Frederick L. and S. G., Chicago, Ill. Rotary cutter for web-printing machines	353,555	Nov. 30	2576	688	37	973
Goss, Frederick L. and S. G., Chicago, Ill. Registering mechanism for printing-machines	353,556	Nov. 30	2577	689	37	973
Goss, George, *et al.* (See Seabolt, Bert, assignor.)						
Goss Pump and Rubber Bucket Manufacturing Company. (See Goss, Sanford A., assignor.)						
Goss, Samuel G. (See Goss, Frederick L. and S. G.)						
Goss, Sanford A., assignor to Goss Pump and Rubber Bucket Manufacturing Company, Chicago, Ill. Expansion rubber bucket for chain-pumps	347,342	Aug. 17	1209	323	36	704
Gotham, Montrose, Centreville, Pa. Operating oil-wells	344,266	June 22	2135	.....	35	1416
Gotrel, Thomas A. (See Sanford, George W., assignor.)						
Gotshall, David H., *et al.* (See Arnold, Alonzo B., assignor.)						
Gott, Arthur O., San Francisco, Cal. Dial for time-pieces	334,525	Jan. 19	1463	392	34	285
Gott, Laura J., La Grange, Ohio. Fire escape	352,463	Nov. 9	1042	280	37	661
Gottschalk, Albert R. W., Ottawa, Kans. Refrigerator	341,472	May 11	702	189	35	642
Gottschalk, Joseph, Baltimore, Md. Bill-file	349,792	Sept. 28	1734	447	36	1302
Gottstein, Peter R., and G. P. McFarlane, Houghton, Mich.; said McFarlane assignor of one-half to said Gottstein. Vehicle-brake	345,299	July 13	697	175 / 176	36	131
Goubet, Claude D., Paris, France. Submarine torpedo-boat	352,124	Nov. 9	588	156 / 157	37	576
Goudie, Thomas C., Chicago, Ill. Scaffold	344,734	June 29	2766	716	35	1539
Gould, Abigail D., executrix. (See Gould, W. C.)						
Gould, Charles A., assignor of one-half to G. A. Gould, St. Louis, Mo. Vehicle-stake	335,918	Feb. 9	1181	314	34	659
Gould, Charles E., and F. H. Cook, Leominster, Mass. Pencil-sharpener	342,350	May 25	1921	507	35	888
Gould, Claude C., assignor of seven-eighths to W. Smith, Batavia, and P. W. Scribner, Tonawanda, N. Y. Adjustable support for telephones	354,469	Dec. 14	1186	318	37	1230
Gould, Demon R., and P. Baldwin, Chestertown, N. Y. Coffin	347,172	Aug. 10	965	258	36	651
Gould, George A. (See Gould, Charles A., assignor.)						
Gould, George H., Somerville, assignor to Pope Manufacturing Company, Boston, Mass. Cyclometer	354,128	Dec. 14	704	188	37	1142
Gould, John C., Chicago, Ill. Animal-trap	340,714	Apr. 27	2313	609	35	432
Gould, John J. (See Bond, Nathan O., assignor.)						
Gould, P. W. (See Wait, Oscar E., assignor.)						
Gould, Perley A., and F. A. Cook, assignors to said Gould and W. H. Whitcomb, Melrose, Mass. Folding bedstead	349,643	Sept. 21	1502	390	36	1344
Gould, Samuel A., Chicago, Ill. Hinge for cake-griddles, &c	340,208	Apr. 20	1595	403	35	297
Gould, Simeon L., Gardiner, Me., assignor of one-half to W. A. Russell, Lawrence, Mass. Paper-pulp-finishing engine	337,489	Mar. 9	844	214	34	1084
Gould, W. C., deceased; A. D. Gould, Walton, N. Y., executrix. Folding desk	339,404	Apr. 6	416	102	35	78
Gould, William F., Des Moines, Iowa. Railway-rail joint	353,675	Dec. 7	32	9	37	1012
Goulding, George P., Rochester, N. Y. Bottle-washer	335,068	Jan. 26	2193	583	34	425
Goulding, George P., Rochester, N. Y. Brush for bottle-washers	344,267	June 22	2136	547	35	1416
Goulding, Henry C., New York, N. Y. Locomotive-boiler	353,303	Nov. 30	2294	590	37	903
Goulding, Henry C., assignor to M. W. Hazelton, New York, N. Y. Steam-boiler	349,039	Sept. 14	688	177	36	1177
Gourand, Georges. (See Cuvier and Gourand.)						
Gourlay, John S., Syracuse, N. Y. Combined wheelbarrow and barrel-truck	355,263	Dec. 28	2340	616	37	1406
Goussot, Cyprien, *et al.* (See Beutel, Jacob, assignor.)						
Gowans, James A., assignor of two-thirds to H. L. Gates, Stratford, Ontario, Canada, and J. M. Duncan, Boston, Mass. Screw-conveyer for grain	349,155	Sept. 14	848	217	36	1207
Gowing, Earle H., Reading, assignor to Ashcroft Manufacturing Company, Boston, Mass. Indicator-piston and attachment	340,665	Apr. 27	2244	590	35	421
Goyne, Arthur H., *et al.* (See Goyne, Charles A., assignor.)						
Goyne, Charles A., assignor to himself, T. R., F. H., and A. H. Goyne, Ashland, Pa. Valve-operating device	347,173	Aug. 10	966	258	36	651
Goyne, Francis H., *et al.* (See Goyne, Charles A., assignor.)						
Goyne, Thomas R., *et al.* (See Goyne, Charles A., assignor.)						
Grabill, John S., Hayesville, Ohio. Horse-power for hay-carriers and other uses	341,232	May 4	370	102	35	573
Gracey, Charles B., *et al.* (See Gracey, Robert, assignor.) (Reissue.)						
Gracey, Robert, assignor to C. B. and W. L. Gracey and R. S. Stephenson, Pittsburg, Pa. Making axle-skeins. (Reissue)	10,776	Nov. 2	549	145	37	561
Gracey, William L., *et al.* (See Gracey, Robert, assignor. (Reissue.)						
Graeter, Charles A. (See Lang and Graeter.)						
Graeter, Henry A., Wooster, Ohio. Wire-fastener	350,241	Oct. 5	199	56	37	41
Graether, Theodore, Detroit, Mich., assignor to Detroit Steel and Spring Works. Spring-making machine	351,975	Nov. 2	360	98	37	525
Graf, Leopold, assignor to T. A. Graf, Newark, N. J. Bottle-stopper	348,461	Aug. 31	2825	759	36	1020
Graf, Theodor A. (See Graf, Leopold, assignor.)						
Grafenstatt, Arnold J., and W. Tweedie, Minneapolis, Minn. Soda-motor	350,428	Oct. 5	438	126	37	86
Graff, Andrew, Brooklyn, N. Y. Seamless shoe	336,913	Mar. 2	47	12	34	935
Graff, Louis, St. Louis, Mo. Apparatus for handling freight	338,951	Mar. 30	2835	748	34	1464
Graff, Louis, St. Louis, Mo. Hoisting and conveying apparatus	338,952	Mar. 30	2837	748	34	1464
Grafke, August, Vailsburg, N. J. Barbed candle-holder	338,594	Mar. 23	2316	606	34	1364
Graham, Andrew B., Burleson, Tex. Wire-stretcher	354,409	Dec. 14	1102	296	37	1215
Graham, David. (See Kennedy, Rankin, assignor.)						
Graham, Edmund H. (See Woodbury, Levi, assignor.)						
Graham, George H., and J. A. Creelman, Rochester, N. Y. Device for operating valves	350,881	Oct. 12	1163	294	37	208
Graham, Simon P., Galt, Ontario, Canada. Combined boring-tool and holder	339,544	Apr. 6	634	155	35	115
Graham, William F., Wakefield, R. I. Harness-trimming	351,433	Oct. 26	1925	501	37	369
Graham, William H., Pittsburg, Pa. Gas-furnace	339,876	Apr. 13	1122	279	35	206
Graham, William H., Pittsburg, Pa. Machine for severing the flanges from I-beams	352,184	Nov. 9	687	183 / 184	37	592
Graham, William H., Pittsburg, assignor of two-thirds to H. Walker, Jr., trustee, Allegheny, and A. C. Milliken, Millvale Borough, Pa. Rolling I-beams into plates	341,569	May 11	836	222	35	668
Graham, William H., Pittsburg, assignor of two-thirds to H. Walker, Jr., trustee, Allegheny, and A. C. Milliken, Millvale Borough, Pa. Roll for rolling I-beams into plates	341,570	May 11	837	223	35	668
Graham, William J., Toronto, Ontario, Canada. Breech-loading fire-arm	338,732	Mar. 30	2529	668 / 669	34	1407
Graham, William S. A., Lancaster, Wis. Harrow	346,744	Aug. 3	366	98	36	532
Gram, Andrew, Menominee, Mich. Steam-engine	352,537	Nov. 16	1128	305	37	684
Gramer, John T., Bowmansville, Pa. Scrubbing-brush holder	345,893	July 20	1574	406	36	295
Gramer, Joseph, assignor of one-half to O. A. Kimball, Boston, Mass. Metallic frame for pianos	351,696	Oct. 26	2309	599	37	442
Gramke, Carl F. A., Stettin, Germany. Potato cleaning and sorting machine	340,572	Apr. 27	2112	544	35	399

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Granbery, Theodore, New York, N. Y. Bracelet	352,917	Nov. 23	1646	442	37	791
Grand de Tour Plow Company. (See Ruef, Charles S., assignor.)						
Grandjean, Arthur, Cincinnati, Ohio. Watch-case	348,202	Aug. 31	2467	662 / 663	36	951
Grand Rapids Electric Light and Power Company. (See Thomas, William M., assignor.)						
Grandstaff, Benjamin F. (See Oldfather and Grandstaff.)						
Grandstaff, John G. (See Oldfather and Grandstaff, assignors.)						
Granger, Almon M., Medford, Mass. Automatic sprinkler for fire-extinguishers	347,033	Aug. 10	761	202 / 203	36	613
Granger, Arthur O., assignor to United Gas Improvement Company, Philadelphia, Pa. Gas apparatus	334,700	Jan. 19	1706	455	34	329
Granger, Arthur O., assignor to United Gas Improvement Company, Philadelphia, Pa. Manufacturing gas	334,701	Jan. 19	1708	456	34	330
Granger, Arthur O., assignor to United Gas Improvement Company, Philadelphia, Pa. Scrubber for gas-works	340,998	May 4	37	10	35	513
Granger, Lorenzo O., San Francisco, Cal. Advertising-puzzle	344,040	June 22	1820	467	35	1358
Granger, Timothy M. (See Taylor, Martin S., assignor.)						
Granite State Plating Company. (See Dow, George B. N., assignor.)						
Grant, Arthur W. (See Beam and Grant.)						
Grant, Arthur W., assignor to Tricycle Manufacturing Company, Springfield, Ohio. Wheel-riveting machine	345,133	July 6	460	118 / 119	36	84
Grant, Charles, Jr. (See Goldthwait, David E., assignor.)						
Grant, Charles, Jr. (See Stearns and Grant.)						
Grant, Elijah B. (See Collins and Grant.)						
Grant, George A., Eddyville, Iowa. Gate	337,148	Mar. 2	354	92	34	991
Grant, George B., Malden, Mass. Micrometer-gage	334,770	Jan. 26	1801	479	34	356
Grant, Horace. (See Westgate, Ida H., assignor.)						
Grant, James B., New York, and A. Mason, Brooklyn, N. Y. Refining petroleum	339,545	Apr. 6	636	155	35	115
Grant, James B., New York, and A. Mason, Brooklyn, N. Y. Apparatus for refining oil	339,546	Apr. 6	639	155	35	115
Grant, James B., New York, and A. Mason, Brooklyn, N. Y. Treating cotton-seed oils and analogous oils	342,692	May 25	2409	639	35	976
Grant, John, Omaha, Nebr. Artificial stone	338,060	Mar. 16	1590	.....	34	1224
Grant, John, Omaha, Nebr. Underground conductor for electric wires	344,827	July 6	35	9	36	8
Grant, John H., H. C. Goodspeed, and T. M. Proctor, said Grant assignor to said Goodspeed and Foote, Boston, Mass., and F. Reed, Bath, Me. Latch	353,025	Nov. 23	1798	483	37	818
Grant, John Q., Longmount, Colo. Anti-friction roller for wagon-reaches	349,644	Sept. 21	1504	390	36	1344
Grant, Jott. (See Davis, William E., assignor.)						
Grant, Jott, Boston, Mass. Water-filter	344,958	July 6	219	56	36	40
Grant, Jott, Boston, Mass. Pantaloon-stretcher	348,203	Aug. 31	2470	663	36	951
Grasberger, Boniface A., Richmond, Va. Wheel-hub	351,910	Nov. 2	266	73	37	506
Graser, Edward, assignor to R. A. Graser, Elmira, N. Y. Coat	349,274	Sept. 14	1006	257	36	1237
Graser, Rosetta A. (See Graser, Edward, assignor.)						
Grassman, John A., Henry, Ill. Hay-rack	337,321	Mar. 2	594	156	34	1036
Grater, Francis A., E. H. Whitney, and F. S. Manton, assignors to American Ship-Windlass Company, Providence, R. I. Locking-gear for windlasses	343,991	June 22	1744	449	35	1346
Grater, Frank A. (See Allen and Grater.)						
Grater, Peter, Florida, Ohio. Endless carrier	349,346	Sept. 21	1089	279	36	1263
Grathvohl, Joseph, *et al.* (See Ralu, Adrien, Fils, assignor.)						
Grathwol, Leopold, Troy, N. Y. Machine for stamping cigars	337,322	Mar. 2	595	156	34	1036
Grätzel, Richard, Hanover, Prussia, Germany. Making fluorine salts	338,061	Mar. 16	1591	.....	34	1224
Grant, John M., Fort Leavenworth, Kans. Permutation-lock	346,542	Aug. 3	117	32	36	483
Graumlich, Solomon M., Ashville, Ohio. Band-cutter and feeder for thrashing-machines	338,637	Mar. 23	2375	625	34	1375
Gravel, Octave, Spalding, Mich. Bear-trap	354,470	Dec. 14	1187	318	37	1231
Graveline, David U., Byron, Ill. Car-coupling	333,850	Jan. 5	484	131	34	90
Gravelle, Octave, Garfield, Nev. Combined harrow, seeder, and roller	339,763	Apr. 13	978	241 / 242	35	179
Graver, Erwin S., Philadelphia, Pa. Train-signal system	351,759	Nov. 2	42	11, 12	37	467
Graves, Albert H., Central City, Nebr. Separable button	351,434	Oct. 26	1926	501	37	369
Graves, B. M. (See Schwingen, William, assignor.)						
Graves, Benjamin M., Waterloo, assignor to M. H. C. Graves, Farmer Village, N. Y. Dish-washing machine	345,380	July 13	804	202	36	150
Graves, Francis C., Hartford, Conn. Printer's quoin	335,282	Feb. 2	278	73	34	490
Graves, Fred. B. (See Likly, Carpenter, and Graves.)						
Graves, Herbert R., Fitchburg, Mass. Adjustable collar attachment for stoves	351,046	Oct. 19	1364	358	37	262
Graves, James B. (See Peacock, Graves, and Huffor.)						
Graves, John, Brooklyn, N. Y. Mantel	350,928	Oct. 19	1166	310	37	226
Graves, John, New York, N. Y., assignor of two-thirds to H. Denison, Elizabeth, N. J., and C. B. Payne, Tarrytown, N. Y. Can for liquids	335,069	Jan. 26	2196	583	34	426
Graves, John, Green Point, and J. R. Dreyfus, New York, N. Y.; said Graves assignor to said Dreyfus. Hand-truck	335,810	Feb. 9	1024	271	34	631
Graves, Louis L., and J. Kangley, Streator, Ill. Apparatus for ventilating mines	336,914	Mar. 2	48	13	34	935
Graves, Mert H. C. (See Graves, Benjamin M., assignor.)						
Graves, Peter T., assignor to Milwaukee Chair Company, Milwaukee, Wis. Stool	339,165	Apr. 6	66	20	35	15
Graves, Willis N., assignor of one-half to Hydraulic Press Brick Company, St. Louis, Mo. Clay-pulverizer	340,999	May 4	38	10	35	513
Gray, Alexander, *et al.* (See Merrill, William E. T., assignor.)						
Gray, Charles, and H. Kemp, assignors to A. Wrench, London, England. Magic lantern	346,994	Aug. 10	698	185	36	602
Gray, Charles G. (See Leonard and Gray.)						
Gray, Charles W. (See Mains, John F., assignor.)						
Gray, Charles W. (See Mains and Converse, assignors.)						
Gray, Delbert B., Philadelphia, Pa. Car-coupling	338,149	Mar. 16	1712	446	34	1249
Gray, Frank, New York, N. Y. Automatic fire-extinguishing system	341,902	May 18	1287	344	35	764
Gray, Frederic W., Leominster, Mass. Hose-spanner	336,915	Mar. 2	49	13	34	936
Gray, George, New York, N. Y. Nose-bag	345,839	July 20	1499	388	36	281
Gray, George and J. W., Sauk Centre, Minn. Fanning-mill	347,706	Aug. 17	1744	465	36	803
Gray, George A. (See Jones, William H., assignor.)						
Gray, Harriette A., Brooklyn, N. Y. Composition to be added to starch to improve its quality	337,490	Mar. 9	846	.....	34	1085
Gray, Henry F. (See Strader, Gray, and Burgess.)						
Gray, Henry F., assignor to L. T. Strader and F. W. Hawkes, Columbus, Ohio. Hat and coat rack	335,189	Feb. 2	148	37	34	467
Gray, Ira, San Francisco, Cal. Therapeutic electric belt	347,592	Aug. 17	1561	415	36	770
Gray, James E., Elyria, Ohio. Washing-machine	334,762	Jan. 19	1709	456	34	330
Gray, James W., assignor of one-third to C. M. Shelton, Bridgeport, Conn. Spring-bending machine	343,123	June 1	502	127 / 128	35	1097

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gray, John B. (See Bosworth, George P., assignor.)						
Gray, John T., Deep Water, Mo. Step for vehicles	340,111	Apr. 20	1443	365	35	269
Gray, John W. (See Gray, George and J. W.)						
Gray, John W. (See White and Gray.)						
Gray, Joseph, Amelia, Ohio. Gutter for buildings	345,894	July 20	1575	406	36	295
Gray, Josiah, Chicago, Ill. Railway-crossing	334,427	Jan. 19	1329	360	34	260
Gray, Josiah, assignor to himself and C. Smith, Chicago, Ill. Railway-track clearer	334,428	Jan. 19	1330	360	34	261
Gray, Miles M., assignor of one-half to J. P. Merry, Eureka Springs, Ark. Vehicle-wheel	350,929	Oct. 19	1167	310	37	226
Gray, Nelson A., *et al.* (See Stubbs, Jesse, assignor.)						
Gray, Richard, Bloomington, Ill. Clinometer	343,634	June 15	1263	318	35	1250
Gray, Richard E., Muncy, Pa. Separator for dry paint, &c	348,324	Aug. 31	2631	709	36	983
Gray, Robert D., assignor of one-third to J. H. Ford, New York, N. Y. Portable photographic camera	346,199	July 27	1990	513	36	382
Gray, Thomas J., assignor of two-thirds to J. T. Greene and G. M. Gross, Chicago, Ill. Ore-concentrator	333,851	Jan. 5	485	131	34	90
Gray, William D., assignor to E. P. Allis & Co., Milwaukee, Wis. Roller grinding-mill	339,161	Apr. 6	60	19	35	14
Gray, William D., assignor to E. P. Allis & Co., Milwaukee, Wis. Roller grinding-mill	339,162	Apr. 6	61	19	35	14
Gray, William D., assignor to E. P. Allis & Co., Milwaukee, Wis. Roller grinding-mill	339,163	Apr. 6	63	19	35	14
Gray, William D., assignor to E. P. Allis & Co., Milwaukee, Wis. Roller grinding-mill	339,164	Apr. 6	64	20	35	15
Gray, William H., Brooklyn, assignor to Glen Cove Machine Company, (limited,) Green Point, N. Y. Presser-bar for planing-machines	337,491	Mar. 9	847	215	34	1085
Gray, William H., Brooklyn, assignor to Glen Cove Machine Company, (limited,) Green Point, N. Y. Planing-machine	339,877	Apr. 13	1123	280	35	206
Gray, William H., assignor to Glen Cove Machine Company, (limited,) Green Point, Brooklyn, N. Y. Circular sawing machine	355,011	Dec. 28	1973	519	37	1393
Gray, William H., assignor to Glen Cove Machine Company, (limited,) Green Point, Brooklyn, N. Y. Wood-surfacing machine	355,012	Dec. 28	1976	519 / 520	37	1394
Graybill, S. W. (See McGlinn, Michael A., assignor.)						
Graydon, James W., assignor of one-half to G. S. Prindle and P. G. Russell, Washington, D. C. Accelerating projectiles	352,125	Nov. 9	591	157	37	576
Greaves, Abraham. (See Esten and Greaves.)						
Greb, William, Chicago, Ill. Elevator	355,162	Dec. 28	2192	578 / 579	37	1436
Grece, Edward S. (See Ewing, Charles W., assignor.)						
Greek, Henry. (See Austin, Oren, assignor.)						
Greeley & Co., E. S. (See Brown, Robert G., assignor.)						
Greeley, Mary A., Ottumwa, Iowa. Candlestick	333,517	Jan. 5	31	8	34	8
Greeley, Mary A., Ottumwa, Iowa. Candlestick	349,036	Sept. 14	685	176	36	1176
Green, Albert H., Le Roy, N. Y. Letter-file	341,063	May 18	1289	344	35	764
Green, Ashel, Keswick, Iowa. Fruit-picker	353,304	Nov. 30	2205	590	37	903
Green Brothers *et al.* (See Edrington, Thomas W., assignor.)						
Green, Charles F., Hampton, Va. Indicator-lock	342,295	May 18	1827	482	35	862
Green, Charles F., Hampton, Va. Indicator-lock	343,901	June 15	1622	413	35	1317
Green, Charles F., Hampton, Va. Indicator-lock	353,557	Nov. 30	2578	689	37	974
Green, Charles F., Worcester, Mass. Thimble for chimneys	343,581	June 15	1196	300	35	1237
Green, Charles W., assignor to L. E. Green, Chicago, Ill. Folding bed	351,320	Oct. 19	1728	454	37	328
Green, Edward, Wakefield, county of York, England. Feed-water heater	339,983	Apr. 13	1266	316	35	232
Green, Edward, Wakefield, county of York, England. Lid or cover for fuel-economizers	341,233	May 4	372	102	35	573
Green, Francis G. (See Shank and Green.)						
Green, Furney E. (See Jones and Green.)						
Green, George, Corpus Christi, Tex. Feed-water heater	352,464	Nov. 9	1043	281	37	661
Green, George F., Kalamazoo, Mich. Photographic shutter	342,693	May 25	2413	639	35	977
Green, George F., Kalamazoo, Mich., assignor to himself, O. S. Kelly, and S. J. Houck, Springfield, Ohio. Electric cash and parcel car	338,150	Mar. 16	1712	446 / 447	34	1249
Green, George F., Kalamazoo, Mich., assignor to himself, O. S. Kelly, and S. J. Houck, Springfield, Ohio. Electric cash and parcel transfer system	338,224	Mar. 16	1813	473 / 474	34	1268
Green, George F., Kalamazoo, Mich., assignor to himself, O. S. Kelly, and S. J. Houck, Springfield, Ohio. Electric cash and parcel transfer system	338,663	Mar. 23	2413	635	34	1381
Green, Henry, deceased, (J. Bird administrator,) assignor of one-half to J. Bird, Osakis, Minn. Pipe-joint	334,526	Jan. 19	1464	393	34	285
Green, Hiram E., Lowell, assignor to himself and H. Edwards, Andover, Mass. Cloth-printing machine	349,037	Sept. 14	686	176	36	1177
Green, James H., St. Louis, Mo. Machine for making fire-clay	353,448	Nov. 30	2415	645	37	943
Green, John B., Stamford, Conn. Crucible-tongs	341,473	May 11	704	189	35	643
Green, John D., *et al.* (See Sloan, Alexander, assignor.)						
Green, John J., Boonton, N. J. Electric-current meter	337,679	Mar. 9	1073	277	34	1125
Green, John W., *et al.* (See Smith, Samuel E., assignor.)						
Green, Joseph L., *et al.* (See Champion, John P., assignor.)						
Green, Louisa E. (See Green, Charles W., assignor.)						
Green, Milton J. (See Derrick, Rodolphus F., assignor.)						
Green, Raphael S., T. S. Edel, and M. Pagel, Philadelphia, Pa. Ice-boat	335,124	Feb. 2	32	10	34	446
Green, Thomas, Joplin, Mo. Steam-generator	344,268	June 22	2137	547 / 548	35	1416
Green, Webster M. (See Aubin, Philip, assignor.)						
Green, William, Hyde, county of Chester, England. Joint or coupling for tubes, &c	341,904	May 18	1290	344	35	764
Green, William H., *et al.* (See Neff, Elijah, assignor.)						
Greenawalt, Peter C., Wampum, Pa. Car-coupling	339,984	Apr. 13	1267	316	35	232
Greene, Albert C., Willett, N. Y. Stanchion	348,964	Sept. 14	579	154	36	1159
Greene, Asbury H. (See Greene, John W. and A. H.)						
Greene, Darwin A., New York, N. Y. Machine for bundling wood	337,946	Mar. 16	1437	372 / 373	34	1197
Greene, Darwin A., New York, N. Y. Circular-sawing machine	337,947	Mar. 16	1439	373	34	1198
Greene, Darwin A., New York, N. Y. Drier	337,948	Mar. 16	1442	374	34	1198
Greene, Francis V., New York, N. Y. Rail for street-railways	341,416	May 4	621	170	35	617
Greene, Francis V., New York, N. Y., assignor to Barber Asphalt Paving Company, Washington, D. C. Apparatus for preparing asphaltic concrete for paving purposes	348,492	Aug. 31	2867	771	36	1027
Greene, Francis V., New York, N. Y., assignor to Barber Asphalt Paving Company, Washington, D. C. Device for manufacturing asphaltic concrete for paving purposes	348,493	Aug. 31	2868	771 / 772	36	1028
Greene, Francis V., New York, N. Y., assignor to Barber Asphalt Paving Company, Washington, D. C. Construction of concrete pavements	349,645	Sept. 21	1505	390	36	1345
Greene, Francis V., New York, N. Y., assignor to Barber Asphalt Paving Company, Washington, D. C. Underground conduit for electric wires	351,697	Oct. 26	2309	600	37	442
Greene, Frank B., Providence, R. I. Treatment of fiber and fibrous matter	338,595	Mar. 23	2317	.....	34	1364

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Greene, J. Durell, Ypsilanti, Mich. One-wheeled vehicle	346,813	Aug. 3	439	120, 121	36	545
Greene, James G., Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Clamp for button-hole sewing-machines	339,640	Apr. 13	805	198	35	148
Greene, James G., Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Cutting mechanism for button-hole sewing-machines	351,760	Nov. 2	43	12	37	467
Greene, James G., and P. Diehl, Elizabeth, N. J., assignors to Singer Manufacturing Company of New Jersey. Button-hole attachment for sewing-machines	335,125	Feb. 2	34	10	34	447
Greene, John R., and J. W. Egnor, Spencer, Ind. Broom-handle extension	347,270	Aug. 10	1096	293	36	675
Greene, John T., *et al.* (See Gray, Thomas J., assignor.)						
Greene, John W., and A. H.; said A. H. Greene assignor to J. T. Thatcher and P. J. Zilles, Oregon, Mo. Window-shade hanging	340,438	Apr. 20	1908	491	35	355
Greene, John W., and A. H.; said A. H. Greene assignor to J. T. Thatcher and P. J. Zilles, Oregon, Mo. Shade-hanger	340,439	Apr. 20	1909	491	35	355
Greene Knitting Company. (See Weldon, Leonard, assignor.)						
Greene, Patrick R., Brooklyn, N. Y. Beer-pump	338,838	Mar. 30	2678	705	34	1434
Greene, Stephen P., and A. R. Young, Jewett City, Conn., assignors of one-half to G. Draper & Sons, Hopedale, Mass. Spindle-bolster	334,371	Jan. 12	1247	336	34	239
Greene, Walter S., *et al.* (See Curtis, David W., assignor.)						
Greener, George W., assignor of one-half to J. L. Pringle, Streator, Ill. Thill-coupling	333,518	Jan. 5	32	9	34	8
Greenhalgh, Fredrick W. (See Hazard and Greenhalgh.)						
Greening, Winfield S., Decatur, Ill. Combined plow and planting mechanism	348,204	Aug. 31	2471	663, 664	36	951
Greenland, Frank, Brooklyn, N. Y. Mat	333,942	Jan. 5	610	166	34	114
Greenland, Frank, Brooklyn, N. Y. Machine for stapling matting-strands	333,943	Jan. 5	611	166	34	114
Greenland, Frank, Brooklyn, N. Y. Mat	343,308	June 8	779	195	35	1157
Greenleaf, Abner, Baltimore, Md., assignor to Fire Extinguisher Manufacturing Company, New York, N. Y. Fire-extinguishing apparatus	347,593	Aug. 17	1563	415, 416	36	770
Greenleaf, John F. (See Ransom, Newman A., assignor.)						
Greenleaf, Joseph H., New Haven, Conn., assignor to E. A. Bradford, Brooklyn, N. Y. Turnstile	349,156	Sept. 14	850	217	36	1207
Greenman, Thomas S., Mystic Bridge, assignor to Standard Machinery Company, Mystic River, Conn. Cotton-condenser	352,538	Nov. 16	1129	305	37	685
Greenough, George G., Boston, Mass. Apparatus for reloading cartridge-shells	351,861	Nov. 2	192	54	37	494
Greenwald, Herman D., St. Paul, Minn. Handkerchief-display case	345,300	July 13	699	176	36	132
Greenwood, Alexander S., Toronto, Ontario, Canada. Convertible wire basket	353,131	Nov. 23	1959	524	37	849
Greenwood, John T., Kalamazoo, Mich. Heating attachment for furnaces and stoves	334,429	Jan. 19	1331	360	34	261
Greer, Howard, Lake View, Ill. Splice bar	354,898	Dec. 28	1817	480	37	1365
Greer, John N., *et al.* (See Wilherell, Loren R., assignor.)						
Greer, John T., *et al.* (See Black, David, assignor.)						
Greer, John W., assignor of one-half to W. H. Tobin, Austin, Tex. Fare-box	351,911	Nov. 2	266	73	37	506
Greeson, James O. (See Hillis, Levi H., assignor.)						
Gregg & Co. (See La Dow, John, assignor.)						
Gregg, Myron E., Washington, D. C. Magazine-gun	353,676	Dec. 7	33	9, 10	37	1013
Gregg, William C., Golconda, Nev. Shovel	348,161	Aug. 24	2394	642	36	932
Gregg, William L., Philadelphia, Pa. Apparatus for drying brick	348,838	Sept. 7	398	108	36	1121
Gregg, William L., Philadelphia, Pa. Brick-machine	352,616	Nov. 16	1236	334, 335, 336	37	704
Gregg, William L., Philadelphia, Pa. Brick-machine	354,129	Dec. 14	707	188, 189, 190	37	1143
Gregg, William L., Philadelphia, Pa. Brick-machine	354,187	Dec. 14	799	211, 212, 213	37	1159
Gregory, Albert M., assignor of one-third to T. M. White, Newton Factory, Ga. Car-coupling	348,519	Aug. 31	2911	783	36	1036
Gregory, Arthur F. (See Osborn and Gregory.)						
Gregory, Charles A., assignor of two-thirds to G. Daveluy, Montreal, Quebec, Canada. Apparatus for leveling billiard-table	344,269	June 22	2140	548	35	1417
Gregory, George H., Chicago, Ill. Retort gas-lamp	343,708	June 15	1373	342	35	1269
Gregory, Robert B., *et al.* (See Post, Charles N., assignor.)						
Gregson, Joseph F., Wellington, Kans. Bosom-board	350,978	Oct. 19	1244	331	37	241
Greig, David, and T. Benstead, Leeds, county of York, England. Balance-plow	353,356	Nov. 30	2276	607, 608	37	916
Greist, Charles W., Erie, Pa. Saw	352,867	Nov. 16	1574	425	37	768
Grellner, Christopher J., St. Louis, Mo. Hammer	341,474	May 11	705	189	35	643
Grellner, Christopher J., St. Louis, Mo. Hammer	341,475	May 11	706	189	35	643
Grellner, Christopher J., St. Louis, Mo. Hammer	347,932	Aug. 24	2070	550	36	871
Gresham, James, Manchester, England, assignor to Nathan Manufacturing Company, New York, N. Y. Injector. (Reissue)	10,697	Mar. 9	1237	321	34	1154
Greth, August, San Francisco, Cal. Combined whistle, match-safe, and cigar-cutter	344,370	June 29	2285	588	35	1451
Greuloch, Jacob, Jr., Cleveland, Ohio. Can faucet and filler	341,476	May 11	706	189	35	643
Grewcox, Charles H., and F. Yeiter, Brainerd, Minn. Furnace	340,502	Apr. 20	2009	515, 516	35	374
Grewcox, Charles H., and F. Yeiter, Brainerd, Minn. Furnace	353,216	Nov. 23	2080	556	37	873
Gribi, Theophilus, Elgin, Ill. Poising the hair-springs of watches	345,840	July 20	1409	388	36	281
Griffey, Henry H., Holyoke, Mass. Gas-regulator	340,112	Apr. 20	1444	365	35	269
Grier, William W., Hulton, Pa. Fifth-wheel for vehicles	345,585	July 13	1124	287	36	207
Grier, William W., and E. F. Bengler, Hulton, Pa.; said Bengler assignor to said Grier. Vehicle-spring	354,633	Dec. 21	1444	383, 384	37	1282
Griese, Carl H., Cleveland, Ohio. Ventilating buildings	341,328	May 4	504	138, 139	35	596
Griest, John M., Chicago, Ill., assignor to Singer Manufacturing Company of New Jersey. Button-hole attachment for sewing-machines	335,126	Feb. 2	37	11	34	447
Griffin, Albert A., Roscommon, Mich. Vermin-exterminator	343,902	June 15	1623	414	35	1317
Griffin, Edwin C., Brooklyn, N. Y. Ore-pulverizer	351,321	Oct. 19	1729	454, 455	37	328
Griffin, George, Botsford, Conn. Hydraulic press	347,237	Aug. 10	1048	280, 281	36	666
Griffin, George W., Franklin Falls, N. H. Machine for making saws	339,641	Apr. 13	806	198	35	148
Griffin, George W., Franklin Falls, N. H. Fabric-turfing implement	339,642	Apr. 13	807	199	35	148
Griffin, Heber C., Franklin, N. H. Combination-lock	342,958	June 1	250	67	35	1053
Griffin, Horace, New Haven, Conn. Copying-press	336,564	Feb. 23	2117	555	34	836

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Griffin, Horace, New Haven, Conn. Letter-copying press	339,643	Apr. 13	809	199	35	149
Griffin, John W., Toronto, Ontario, Canada. Baby-carriage	334,372	Jan. 12	1248	336	34	239
Griffin, Michael D., *et al.* (See Le Clair, George, assignor.)						
Griffin, Thomas A., Chicago, Ill. Car-axle box	337,949	Mar. 16	1445	374	34	1199
Griffin, Thomas A., Chicago, Ill. Rail-brace	338,953	Mar. 30	2838	748	34	1464
Griffith, Cyrus S., Murphysborough, Ill. Hog-cholera remedy	347,483	Aug. 17	1415	...	36	742
Griffith, Ezra H., Fairport, N. Y. Microscopist's turn-table	354,130	Dec. 14	709	190	37	1143
Griffith, Frank P. (See Chinnery, George W., assignor.)						
Griffith, George F. (See Reeder, Edred A., assignor.)						
Griffith, James S., Springfield, Ill., assignor of three-fourths to R. G. Speer, St. Louis, Mo. Low-water safety attachment	341,905	May 18	1291	345	35	764
Griffith, John M., Philadelphia, Pa. Pencil-sharpener	340,930	Oct. 19	1168	311	37	227
Griffith, William, Pittston, Pa. Copying device	339,166	Apr. 6	67	20	35	15
Griffith, William, Pittston, Pa. Discal indicator	352,949	Nov. 23	1691	454	37	798
Griffiths, James A., Winter Park, Fla. Wire binder for boxes	345,895	July 20	1576	407	36	295
Griffiths, John A., Coventry, England. Velocipede	338,151	Mar. 16	1716	447 / 448	34	1250
Grigg, Thomas H., assignor to C. H. Frost, Philadelphia, Pa. Toy building-block	349,646	Sept. 21	1506	390	36	1345
Griggs, Eugene W., *et al.* (See Strait, Andrew V., assignor.)						
Griggs, Frank H., *et al.* (See Smith, Samuel E., assignor.)						
Griggs, George H., Providence, R. I., assignor to C. W. Sherburne, Boston, Mass. Brake-pawl for railway-cars	353,259	Nov. 23	2133	573	37	884
Grilley, Charles T., Boston, Mass. Manufacture of washers	338,347	Mar. 23	1981	522	34	1306
Grillwitzer, Charles A., assignor to Automatic Dining Table Company, San Francisco, Cal. Dining-table	348,667	Sept. 7	184	49, 50	36	1080
Grime, John, Minneapolis, Minn. Valve-gear for engines	335,578	Feb. 9	689	182	34	570
Grime, John, assignor of one-half to G. H. Eastman, Minneapolis, Minn. Valve-gear for engines	351,912	Nov. 2	269	73 74	37	506
Grimes, Joseph, Perry, Ill. Hay-rack	333,944	Jan. 5	612	166	34	114
Grimm, Charles. (See Mangold and Grimm.)						
Grimm, Charles, Jersey City, N. J. Christmas-tree candy	354,509	Dec. 14	1248	374	37	1240
Grimm, Gerhard E., Camden, N. J. Bobbin	342,437	May 25	2046	540	35	909
Grimm, Henry F. A., St. Louis, Mo. Reflecting-view and spy-glass	348,279	Aug. 31	2570	690	36	969
Grimm, Paul H., assignor to Glen Cove Manufacturing Company, Glen Cove, N. Y. Machine for packing starch	354,634	Dec. 21	1446	384	37	1283
Grimm, William G. (See Sarmiento and Grimm.)						
Grimmesey, Orris R., *et al.* (See Winfield, William C., assignor.)						
Grimshaw, William D., New York, assignor to J. L. Arts, Troy, N. Y. Machine for covering wire	342,085	May 18	1540	412	35	810
Grisel, George, assignor of one-half to C. C. Volberg, San Francisco, Cal. Candlestick attachment	347,484	Aug. 17	1416	376	36	742
Griswold, Alanson B., Bunker Hill, Kans. Draft-equalizer	345,631	July 13	1189	305	36	220
Griswold, Alanson B., and J. M. Bradbury, Bunker Hill, Kans. Attachment for journal-boxes	349,937	Sept. 28	1922	497	36	1430
Griswold, Albert F., and H. R. Barnhurst, Erie, Pa. Band-saw mill	338,170	Mar. 16	1739	451	34	1254
Griswold, Bradford H., Millerstown, Pa. Spear for removing casings from oil-wells	348,520	Aug. 31	2912	783	36	1036
Griswold, Edward H., Marthasville, Mo. Drag-saw	348,737	Sept. 7	275	74	36	1098
Griswold, Edward N., Brooklyn, N. Y. Suspension device for lamps and other articles	350,429	Oct. 5	440	126	37	86
Griswold, Frank B., Troy, N. Y. Adjustable bale-tie	345,841	July 26	1500	389	36	281
Griswold, George M., New Haven, Conn. Automatic metal-grinding machine	344,777	June 29	2821	731 / 732	35	1550
Griswold, Henry F., Chicago, Ill. Sheet-metal coffee and spice can	345,780	July 20	1416	367	36	267
Griswold, James D., Brooklyn, N. Y. Ornament for lamp-shades	344,959	July 6	220	56	36	40
Griswold, James D., Brooklyn, N. Y. Suspension device for lamps	346,098	July 27	1847	477	36	354
Griswold, James D., Brooklyn, N. Y. Suspension device	346,995	Aug. 10	700	186	36	602
Griswold, James D., Brooklyn, N. Y. Suspension device for lamps and other articles	350,673	Oct. 12	813	221	37	155
Griswold, Norman W., Alameda, Cal. Rack or holder for tooth-brushes, &c	338,402	Mar. 23	2065	541	34	1320
Grittinger, Henry C. (See Gettel, Grittinger, and Killinger.)						
Groeninger, John A., St. Louis, Mo. Return-ball	350,052	Sept. 28	2076	537	36	1459
Groesbeck, Herman J. (See Perry, Nelson W., assignor.)						
Groff, Israel M., Middletown, Pa. Washing-machine	337,950	Mar. 16	1446	375	34	1199
Gromme, John J. (See Kissner and Gromme.)						
Gröndahl, Wilhelm A., Portland, Oreg. Apparatus for carrying vessels over obstructions	350,242	Oct. 5	199	57	37	41
Gronemeyer, John P., St. Louis, and J. Polster, Warrenton, Mo. Coffee or tea pot	335,070	Jan. 26	2197	584	34	426
Groninger, William H., and J. F. Jacobs, Port Royal, Pa. Railway-gate	344,371	June 29	2286	588 / 589	35	1451
Groom, Wallace P., Brooklyn, N. Y. Cuff	334,527	Jan. 19	1465	393	34	285
Groom, Wallace P., Brooklyn, N. Y. Set of blanks for effecting the intertransfer of ownership of property	336,605	Feb. 9	1293	344	34	678
Groom, Wallace P., Brooklyn, N. Y. Collar or cuff	336,606	Feb. 9	1294	344	34	679
Groom, Wallace P., Brooklyn, N. Y. Business-blank	336,607	Feb. 9	1295	345	34	679
Grosjean, E. G. (See Cole, Cary O., assignor.)						
Grosjean, James E., Fredericksburg, Ohio. Well-refrigerator	337,058	Mar. 2	234	62	34	969
Grosjean, James E., Fredericksburg, Ohio. Funeral-advertising device or annunciator	351,862	Nov. 2	194	54	37	494
Gross, Charles L., Canton, Miss. Trace-carrier	345,301	July 13	700	176	36	132
Gross, George M., *et al.* (See Gray, Thomas J., assignor.)						
Gross, George W., Oxford, N. J. Machine for cutting leather	346,651	Aug. 3	256	70	36	510
Gross, Henry, Chicago, Ill. Safe	342,003	May 18	1409	376	35	785
Gross, Henry, Chicago, Ill. Burglar-proof safe	342,004	May 18	1410	376	35	785
Gross, Henry, Chicago, Ill. Lock mechanism for safes and vaults	342,005	May 18	1412	377	35	786
Gross, John F., Canton, Ohio. Vehicle-spring	352,918	Nov. 23	1648	442	37	791
Grosscup, Manias G., Milwaukee, Wis. Hay elevator and carrier	345,229	July 6	590	150	36	107
Grossman, George, Lancaster, Pa. Stock-car	337,323	Mar. 2	596	156 / 157	34	1036
Grossman, George, Lancaster, Pa. Stock-car	340,946	Apr. 27	2622	690	35	488
Grossman, George, Lancaster, Pa. Nut-lock	345,842	July 20	1501	389	36	281
Grosz, Martin J., Emporia, Kans. Pie-plate	348,839	Sept. 7	400	108	36	1122
Grotefend, Fred. (See Elmore, Benton, assignor.)						
Grotta, David, New Haven, Conn. Corset-ironing machine	344,778	June 29	2827	732	35	1551
Grotta, David, New Haven, Conn. Corset-ironing machine	344,779	June 29	2828	733	35	1551
Grout, Charles P., New York, N. Y. Dental engine	336,229	Feb. 16	1648	431	34	746
Grout, Charles P., New York, N. Y. Artificial tooth	336,230	Feb. 16	1651	431	34	747
Grout, Charles P., New York, N. Y. Applying artificial tooth-crowns	336,231	Feb. 16	1653	431	34	747
Grout, Charles P., New York, N. Y. Artificial tooth-crown	347,933	Aug. 24	2071	550	36	871

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Grout, Charles P., New York, N. Y. Dental bridge	347,934	Aug. 24	2072	550	36	871
Grout, Charles P., New York, N. Y. Artificial tooth	354,833	Dec. 21	1722	456	37	1336
Grout, John H., and S. Oakley, Grimsby, Ontario, Canada. Harvester-binder	343,661	June 15	1295	325	35	1255
Grout, William L. (See Hadley and Grout.)						
Groux, Emile. (See Galland and Groux.)						
Groux, Henry A., Montclair, N. J. Lawn-mower	336,639	Feb. 23	2222	580	34	854
Grove, David E., St. Louis, Mo. Street-sweeper	342,744	May 25	2491	663	35	992
Grove, Elmer E., Springfield, Ohio. Tobacco-cutter	350,485	Oct. 12	544	151	37	108
Grove, Grier & Co. (See Williams and Raidabaugh, assignors.)						
Grove, J. Ross, York, Pa. Electric meter	343,450	June 8	1008	251	35	1197
Grove, Shepherd B., Urbana, Ohio. Indicator for hat-boxes	346,471	Aug. 3	34	9	36	467
Grove, Winfield S., Philadelphia, Pa. Show-case	354,635	Dec. 21	1448	384	37	1283
Grover, Charles, Kansas City, Mo. Combined band-cutter and grain-feeder for thrashers	345,230	July 6	591	150	36	107
Grover, George A. (See Worden and Grover.)						
Grover, Susan O., Granville, Ohio. Coffin attachment	344,901	July 6	151	38	36	27
Groves, Julius C. (See Bogart, Isaac, assignor.)						
Grovesteen, Milton W., New York, N. Y. Circuit-closing attachment for pressure-gages	339,094	Mar. 30	3048	805	34	1499
Grovesteen, Milton W., New York, N. Y. Electro-magnetic valve	347,707	Aug. 17	1745	465	36	803
Grovesteen, Milton W., New York, N. Y. Clutch	347,708	Aug. 17	1746	465	36	803
Grow, Mary E., Washington, D. C. Pin	334,373	Jan. 12	1249	337	34	239
Grube, John K., New Bloomfield, Pa. Well-refrigerator	338,664	Mar. 23	2415	636	34	1381
Gruber, John P., Jersey City, N. J. Service apparatus for malt liquors	348,668	Sept. 7	186	50	36	1081
Gruber, John P., Jersey City, N. J. Store-service measuring apparatus for oils and similar fluids	348,669	Sept. 7	189	50	36	1081
Gruber, John P., Jersey City, N. J. Filter	353,855	Dec. 7	287	76	37	1059
Grueninger, Edward, Cincinnati, Ohio. Pipe-joint	348,556	Sept. 7	20	6	36	1052
Gründler, Bernhard, Petersdorf, Prussia, Germany. Apparatus for moistening stamps, &c.	335,580	Feb. 9	690	182 183	34	571
Grüner, Carl F., New York, N. Y. Street-sweeping machine	338,225	Mar. 16	1815	474 475	34	1268
Gruner, Henry, *et al.* (See Poell, Hermann, assignor.)						
Gruninger, Otto. (See Abt, Roman, assignor.)						
Grunsky, Charles E., Sacramento, Cal. Sewer system	355,163	Dec. 28	2193	579	37	1436
Grünwald, John and M., New York, N. Y. Rocking-chair	342,296	May 18	1827	483	35	862
Grünwald, Manuel. (See Grünwald, John and M.)						
Grush, Andrew J., and J. B. S. Case, Defiance, Iowa. Soot-accumulator	340,113	Apr. 20	1445	365	35	270
Guardiola, José, Chocola, Guatemala. Coffee-huller	339,288	Apr. 6	250	62	35	47
Guardiola, José, Chocola, Guatemala. Coffee-huller	340,039	Apr. 13	1347	338	35	246
Guardiola, José, Chocola, Guatemala. Evaporating apparatus for saccharine and other juices	341,843	May 11	1204	322 323	35	741
Guastavino, Francesca R., *et al.* (See Guastavino, Rafael, assignor.)						
Guastavino, Rafael, assignor to F. R. Guastavino and B. S. Levy, New York, N. Y. Fire-proof building	336,047	Feb. 9	1353	358	34	689
Guastavino, Rafael, assignor to F. R. Guastavino and B. S. Levy, New York, N. Y. Construction of fire-proof buildings	336,048	Feb. 9	1354	358	34	689
Guerber, Frederick S., Allentown, Pa. Combined switch-stand and semaphore-signal	346,848	Aug. 3	491	136	36	556
Guerber, Frederick S., Allentown, Pa. Safety-bar for railways	348,902	Sept. 7	495	131	36	1139
Guerin, Edward B. (See Patton, Guerin, and Fitz Gerald.)						
Guérin, Emile F., Paris, France. Parquet-flooring	350,457	Oct. 5	491	138	37	94
Guernsey, David W., St. Louis, Mo. Electric-lamp reflector	334,858	Jan. 26	1911	509	34	375
Guernsey, Henry W., *et al.* (See Coles, David H., assignor.)						
Guernsey, Samuel B., Corona, assignor of one-half to W. M. Ducker, New York, N. Y. Foot-covering	342,438	May 25	2047	540	35	909
Guerrant, Peter M. (See Lewis and Guerrant.)						
Guerrant, Peter M., Danville, Va. Tobacco-press	352,052	Nov. 2	464	126	37	547
Guest, John H., Brooklyn, assignor of one-half to T. F. Thomas, New York, N. Y. Check or ticket register apparatus	349,710	Sept. 28	1604	414 415 416 417	36	1369
Guhl, Heinrich A. H., Hamburg, Germany. Machine for cleaning and polishing knives	339,095	Mar. 30	3050	806	34	1499
Guict, Michel, Paris, France, assignor to Healey & Co., New York, N. Y. Adjustable seat for vehicles	354,860	Dec. 21	1755	464	37	1312
Guild, George M., Boston, Mass. Piano-forte	351,761	Nov. 2	45	12	37	467
Guild, George M., and B. C. Burnham, Boston, Mass. Piano-forte	336,565	Feb. 23	2118	555	34	837
Guild, Henry M., Woodbury, N. J. Preserve jar fastening	335,444	Feb. 2	497	129	34	530
Guild, Henry M., Woodbury, N. J. Jar-fastening	335,445	Feb. 2	498	129	34	530
Guillaume, John B., and P. F. Fish, Springfield, Ohio. Rail-joint	343,184	June 1	506	128	35	1098
Guillemin, Georges, Paris, France. Pipe and hose coupling	344,312	June 22	2197	565	35	1427
Guillow, Jehiel D. (See Guillow, Nicola M., assignor.)						
Guillow, Nicola M., Wakefield, assignor of one-half to J. D. Guillow, Boston, Mass. Rod-holding clamp for children's carriages	351,322	Oct. 19	1731	455	37	329
Guinnip, Lyman, Chicago, Ill. Making butter	334,430	Jan. 19	1332	.....	34	261
Guion, Richard L., Elmira, N. Y. Electrical thermostat	354,131	Dec. 14	711	191	37	1143
Guion, Richard L., Elmira, N. Y. Electric heat-regulator	355,164	Dec. 28	2194	579	37	1437
Gulath, Charles. (See Krucker, Jacob E., assignor.)						
Gulath, Charles, assignor of one-half to J. E. Krucker, St. Louis, Mo. Envelope	354,080	Dec. 7	621	170	37	1120
Guldhaug, John J., Stoughton, Wis. Window-blind	349,252	Sept. 14	9-2	253	36	1233
Gulick, Henry, Orange County, Fla. Budding trees	336,905	Aug. 10	5-8	157	36	581
Gulick, John H., Syracuse, N. Y. Basket	337,763	Mar. 9	1177	306	34	1143
Gulick, William V. (See Potter, Maynes, assignor.)						
Gullberg, Carl, Jersey City, N. J. Mainspring-winder	342,745	May 25	2493	663	35	992
Gulling, Frank, Maximo, Ohio. Fence-making machine	354,861	Dec. 21	1756	464	37	1312
Gulliver, William H., Phillipsburg, Pa. Glass-mold	337,764	Mar. 9	1179	307	34	1143
Gump, Albert W., Dayton, Ohio. Bicycle-stand	350,243	Oct. 5	200	57	37	42
Gümpel, Charles G., Leicester Square, county of Middlesex, England. Appliance for supporting carriage-windows	349,647	Sept. 21	1506	391	36	1345
Gumpper, Jacob D., *et al.* (See Austin, Aronamous B., assignor.)						
Gundlach, Philip N., Belleville, Ill. Grain-drill	351,047	Oct. 19	1366	359	37	262
Gunn, George P., Herkimer, N. Y. Air-gun	337,395	Mar. 9	691	180	34	1060
Gunn, John C., Knoxville, Tenn. Bedstead-clamp	346,153	July 27	1931	498	36	370
Gunn, John C., assignor of one-half to T. Egan, Knoxville, Tenn. Mail-bag	348,905	Sept. 14	5-2	154	36	1160
Gunn, Walter C. (See Hardy, Lewis W., assignor.)						
Gunning, James F. J., New Haven, Conn. Stiffening material for corsets	347,634	Aug. 10	763	203	36	613
Gunning, Robert J. (See Haines, George B., assignor.)						
Gunston, Byron M., Oswego, N. Y. Hemmer for sewing-machines	351,562	Nov. 2	45	13	37	467

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gunther, George F., Louisville, Ky. Stencil	340,040	Apr. 13	1348	338	35	946
Guptill, Roderick G., Chicago, Ill. Rotary system of stage scenery	355,075	Dec. 28	2062	542	37	1410
Gurley, W. & L. E. (See Gurley, William, assignor.)						
Gurley, William, assignor to W. & L. E. Gurley, Troy, N. Y. Telescopic hand level	353,406	Nov. 30	2354	628	37	931
Gurlitz, Augustus T. (See Roddey, Carlotta F., assignor.)						
Guss, Samuel M., Steelton, assignor of one-half to J. S. Ammon, Reading, Pa. Cut nail	337,765	Mar. 9	1180	307	34	1144
Gushart, John, Buckeye, Ill. Device for supplying salt to stock	349,843	Sept. 28	1806	466	36	1407
Gustin, Andrew J., Boston, Mass. Rail-straightening machine	343,270	June 8	719	179 180	35	1146
Guthrie, James T., Leesburg, Ohio. Telephonic transmitting apparatus	338,263	Mar. 23	1864	490	44	1286
Guthrie, James T., Leesburg, Ohio. Telephone-receiver	341,000	May 4	39	11	35	513
Guthrie, Patrick F., Franklin, N. J. Pumping apparatus	343,765	June 15	1456	364	35	1284
Guthrie, William F., and N. C. Peterson; said Peterson assignor to L. S. Barker, Minneapolis, Minn. Automatic register for photographic-printing frames	347,292	Aug. 10	1128	302	36	680
Gutmann, Emil. (See Frank, Clara, assignor.)						
Gutmann, Emil, New York, N. Y. Cuff-fastening	344,313	June 22	2198	565	35	1428
Gutridge, Samuel W., Johnstown, Mo. Sulky-plow	334,117	Jan. 12	867	234	34	168
Güttinger, Carl, Camden, N. J., assignor to J. Loeb, Cheltenham Township, Pa., M. Schoenfeld, Rorschach, Switzerland, and D. Schoenfeld, Philadelphia, Pa. Embroidering-machine	350,053	Sept. 28	2077	538 539 540	36	1460
Gutzloe, August, Chicago, Ill. Field-game marker	335,579	Feb. 9	690	182	34	571
Guyer, Isaac D. (See Wetherell, James S., assignor.)						
Gwinn, William H. (See Hindmarsh and Gwinn.)						
Gwyer, Frederick S., New York, N. Y. Refrigerator	347,293	Aug. 10	1129	302	36	681
Gwyer, William E., New York, N. Y. Spirit-level for boring-bits	341,378	May 4	571	158	35	608
Gwyer, William E., New York, N. Y. Spirit-level for boring-bits	341,379	May 4	571	158	35	608
Gwynne, John, London, England. Centrifugal or rotary pump	342,297	May 18	1828	483	35	862
György, Joseph, New York, N. Y. Combined fur collar and muff	345,632	July 13	1190	305	36	220
Haagensen, Sophus and O. F. Sonne, Boston, Mass. Apparatus for recording soundings	342,351	May 25	1923	507 508	35	888
Haak, Henry, Prescott, Pa. Butter-shipper	348,557	Sept. 7	20	6	36	1052
Haarlander, August. (See Dawes and Haarlander.)						
Haas, Bonifacius. (See La River, Joseph, assignor.)						
Haas, David C., *et al.* (See Ward, Matthew P., assignor.)						
Haas, Edwin, Philadelphia, Pa. Lead pipe	347,594	Aug. 17	1569	416	36	771
Haas, George A., assignor to Bridesburg Manufacturing Company, Philadelphia, Pa. Convertible weft and warp spinning frame	351,636	Oct. 26	2232	577	37	427
Haas, Samuel H., assignor of one-half to N. L. Seguin, Philadelphia, Pa. Shutter fastener	342,792	June 1	26	7	35	1011
Haas, Wilhelm B., Paris, France. Attachment for cigar-holders and pipe-stems	350,359	Oct. 5	344	99	37	70
Haas, William L., Charles City, Iowa. Twine and wire cutter	334,582	Jan. 19	1542	413	34	299
Haasz, Daniel F., Philadelphia, Pa. Lock	339,644	Apr. 13	811	199	35	149
Haberkorn, Theodore H., Fort Wayne, Ind. Valve for air-brakes	335,446	Feb. 2	499	130	34	531
Haberman, Frederick. (See Leavitt, Frank M., assignor.)						
Habernicht, August, New York, N. Y. Faucet	343,451	June 8	1011	252	35	1197
Habig, Damian, Cumberland, Md. Stove	338,954	Mar. 30	2840	709	34	1465
Habirshaw, William M., New York, N. Y. Covered or insulated wire	338,733	Mar. 30	2532	669	34	1408
Habitzreiter, Julius, Chicago, Ill. Newspaper-file	340,305	Apr. 20	1737	442	35	323
Hachenberg, John P., and E. F. Radcliff, Austin, Mo. Churn	348,670	Sept. 7	191	51	36	1081
Hackenberg, Jacob A., Kimberton, Pa. Oil-cabinet	337,576	Mar. 9	953	244	34	1104
Hackenberg, Jacob A., Kimberton, Pa. Commode	348,738	Sept. 7	277	74	36	1099
Hacker, William, trustee. (See Dolan, Edward J., assignor.)						
Hackett, John C., Belleville, Ill. Hame-fastening	345,124	July 6	468	119	36	85
Hackett, Seth, Bronson, Mich. Hand corn-planter	334,583	Jan. 19	1543	413	34	299
Häckler, Philip, Minneapolis, Minn. Lubricator	337,396	Mar. 9	692	180	34	1060
Hackman, Aaron B., Penrose, Ill. Wire gate	344,372	June 29	2288	589	35	1451
Hackney, John M. (See Scott, Winfield R., assignor.)						
Hackney, William, Swansea, county of Glamorgan, and J. W. Wailes, Wednesbury, county of Stafford, England. Gas and air port for regenerative furnaces	340,873	Apr. 27	2525	665	35	471
Hadden, Harvey, Peekskill, N. Y. Car-coupling	354,636	Dec. 21	1449	384	37	1283
Hadden, Nathaniel A., Sandusky, Ohio. Fruit-basket cover	352,313	Nov. 9	854	230	37	923
Hadden, William, Brooklyn, N. Y. Railway-signal	349,040	Sept. 14	690	177	36	1177
Haddock, Worcester, assignor of one-half to J. Frank, Cincinnati, Ohio. Protecting underground wires and pipes	351,913	Nov. 2	270	74	37	506
Hadesty, George W., Drifton, Pa. Tamping-bar	337,492	Mar. 9	848	215	34	1085
Hadesty, George W., Drifton, Pa. Weather-strip	341,102	May 4	176	55	35	517
Hadfield, Robert, Sheffield, county of York, England. Self hardening manganese steel	333,748	Jan. 5	350	.....	34	65
Hadfield, Robert, Sheffield, county of York, England. Steel	342,867	June 1	131	.....	35	1030
Hadfield, Robert, Sheffield, county of York, England. Steel	342,868	June 1	132	.....	35	1030
Hadfield, Robert, Sheffield, county of York, England. Making steel	342,869	June 1	134	.....	35	1030
Hadger, P. S. (See Lovett, Antoine D., assignor.)						
Hadley, Amos, Washington, D. C. Paper-holder	346,154	July 27	1932	498	36	370
Hadley, Charles E. (See Garvin and Hadley.)						
Hadley, Charles F., assignor to Overman Wheel Company, Chicopee, Mass. Loop-frame for tricycles	335,811	Feb. 9	1025	271	34	631
Hadley, Ezekiel H., Bradford, N. H. Lantern attachment	339,167	Apr. 6	68	20	35	15
Hadley, Horace W., and W. L. Grout, Orange, Mass. Shuttle for sewing-machines	345,682	July 20	1274	330	36	242
Hadley, Horace W., and W. L. Grout, Orange, Mass. Take-up mechanism for sewing-machines	345,683	July 20	1275	330	36	242
Hadley, Horace W., and W. L. Grout, Orange, Mass. Feeding mechanism for sewing-machines	345,684	July 20	1276	331	36	242
Hadley, Jacob B. (See Taft, Daniel F., assignor.)						
Hadley, James M., Peoria, Ill. Shade and paper exhibitor	350,674	Oct. 12	815	221	37	155
Hadwen, William E., *et al.* (See Westgate, Joseph D., assignor.)						
Haehnlen, Louis F., Chicago, Ill. Candy-box	348,671	Sept. 7	192	51	36	1082
Haenichen, Friedrich and O., Philadelphia, Pa., assignors to themselves, and O. Seeblass, New York, N. Y. Electric pendulum clock. (Reissue)	10,720	May 11	1229	328 329	35	745
Haenichen, Friedrich and O., Philadelphia, Pa., assignors to themselves, and O. Seeblass, New York, N. Y. Electric-pendulum clock	342,086	May 18	1543	412	35	811
Haenichen, Otto. (See Haenichen, Friedrich and O.)						
Haenichen, Otto. (See Haenichen, Friedrich and O.) (Reissue.)						
Haentges, John G., and J. P. Fisher, Buffalo, N. Y. Boot or shoe stretcher	347,485	Aug. 17	1416	377	36	742
Haerter, Hugo, New York, N. Y. Spring-balance	345,049	July 6	353	89	36	64
Haesner, Adalbert, Munich, Germany. Petroleum-gas burner	354,132	Dec. 14	712	191	37	1144
Hafer, Henry F. (See Jennings, Linnaeus C., assignor.)						
Hafely, Alfred C., New York, N. Y. Book-holder	342,006	May 18	1413	377	35	786

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hafker, Henry, New York, N. Y. Fifth-wheel	351,508	Oct. 26	2040	520	37	392
Haffcke, Charles, Baltimore, Md. Cooling air in refrigerators, &c	343,369	June 8	891	224	35	1176
Haffcke, Charles, Baltimore, Md. Refrigerator-car	348,840	Sept. 7	401	109	36	1122
Hafford, Roderick F. (See Belk, John C., assignor.)						
Hafner, Joseph, Fowler, Mich. Land-roller	337,577	Mar. 9	954	244	34	1104
Hafner, William E., *et al.* (See Fahn, Peter, assignor.)						
Hagan, Hugh. (See Marland, George, assignor.)						
Hagan, William E. (See Norris and Hagan.)						
Hagar, Edward F., *et al.* (See Remington, William H., assignor.)						
Hagarty, Woodward E., Arrow Rock, Mo. Spring double-tree	337,397	Mar. 9	693	181	34	1060
Hagemann, Gustav A., Copenhagen, Denmark. Grate	354,785	Dec. 21	1664	439	37	1323
Hager, Charles J., Beatrice, Nebr. Machine for making cleats	349,587	Sept. 21	1438	371	36	1330
Hagerty, James R., *et al.* (See Wagandt, Charles L., assignor.)						
Hagerty, John C., Santa Cruz, Cal. Bark-cutting machine	334,859	Jan. 26	1912	509	34	375
Hagerty, John H., Lowell, Mass. Water-motor	344,960	July 6	220	56, 57	36	41
Hagerty, Michael H. (See McArdle, Frank, assignor.)						
Hagerty, Thomas F., San Francisco, Cal. Button-hole sewing-machine	335,029	Jan. 26	2134	568, 569	34	415
Haggard, William S., Lafayette, Ind. Wagon-spring	354,548	Dec. 21	1309	348	37	1259
Hagge, Henry, and J. W. Saukey, Walnut, assignors of one-third to P. Wiese, Avoca, Iowa. Buggy-top	342,746	May 25	2495	664	35	992
Haggerty, Dennis H., Newark, N. J. Hat-hardening machine	350,129	Oct. 5	42	12	37	11
Haggin, Joseph B. (See Tennent, Thomas, assignor.)						
Hagmayer, John A. (See Schaefer and Hagmayer.)						
Hagstoz & Co., T. B. (See Gilbert, Jairus H., assignor.)						
Hahlo, Charles, C. E. Liebreich, and T. Hanson, Bradford, county of York, England. Shuttle-guard for looms	341,571	May 11	839	223	35	668
Haigh, Benjamin, Birmingham, England. Apparatus for disinfecting closets, urinals, &c	341,234	May 4	372	102	35	573
Haigh, Harry B., Brooklyn, assignor to Iron Clad Manufacturing Company, New York, N. Y. Elevator-bucket	336,916	Mar. 2	50	13	34	936
Haight, George E., New Haven, and W. H. Wood, Hartford, Conn. Submarine torpedo-boat	339,096	Mar. 30	3051	806, 807, 808, 809	34	1499
Haight, George E., New Haven, and W. H. Wood, Hartford, Conn. Gas-heating chamber for torpedo-boats	349,711	Sept. 28	1620	417	36	1371
Haight, George W., Jr., *et al.* (See Sears, Frank M., assignor.)						
Haight, Henry J., New York, N. Y. Brooder	354,549	Dec. 21	1310	348	37	1259
Haight, John B., Cincinnati, Ohio. Sofa	341,140	May 4	234	69, 70	35	548
Haight, Washington Z., Winnebago City, Minn. Valve for pumps, &c	336,406	Feb. 16	1900	497	34	792
Hailes, Robert. (See Hallum, David, assignor.)						
Haines, Edward M., Dayton, Ohio. Copying-press	339,878	Apr. 13	1126	240	35	207
Haines, George B., Chicago, Ill. Car-starter	336,232	Feb. 16	1654	432	34	747
Haines, George B., New York, N. Y. Necktie-fastener	354,699	Dec. 21	1537	407	37	1300
Haines, George B., assignor of one-half to R. J. Gunning, Chicago, Ill. Car-starter	352,126	Nov. 9	596	157, 158	37	577
Haines, George B., assignor of one-half to R. J. Gunning, Chicago, Ill. Car-starter	352,127	Nov. 9	598	158	37	577
Haines, John D. (See Lake and Haines.)						
Haines, John H. J. (See Strong and Haines.)						
Haines, Jones & Cadbury. (See Fowkes, Alfred, assignor.)						
Hainley, Franklin E., assignor of one-fourth to W. G. Delashmutt, Martinsville, Ill. Apparatus for utilizing the expansive and contractive power of metals	348,841	Sept. 7	402	109	36	1122
Hains, William. (See Arbogast and Hains.)						
Hainsworth, Frederick, Chicago, Ill. Cooling-room and disposing of noxious gases therein	341,906	May 18	1292	345	35	765
Hainsworth, Frederick, Chicago, Ill. Making scroll-work	351,435	Oct. 26	1927	502	37	369
Hainsworth, Frederick, Chicago, Ill. Manufacture of scroll-work	351,436	Oct. 26	1928	502	37	369
Hainsworth, William, Pittsburg, Pa. Forging-plant	352,314	Nov. 9	855	230, 231	37	623
Haire, Herbert, Grand Rapids, Mich. Feed mechanism for grinding-mills	348,205	Aug. 31	2473	664	36	952
Haislett, William E. (See Salmon and Haislett.)						
Haitz, Frederick. (See Levenguth, John, assignor.)						
Haitz, Fredrick, Towanda, Ill. Umbrella-support	347,343	Aug. 17	1210	323, 324	36	705
Hake, Francis A., Cuero, Tex. Riding-saddle	344,828	July 6	36	9	36	8
Hake, Philipp, Hoboken, N. J., and F. Oechsli, New York, N. Y.; said Oechsli assignor to said Hake. Ornamentation of cards, &c	338,955	Mar. 30	2840	749	34	1465
Hake, Samuel E., Niles, Ohio. Potato-planter	336,312	Feb. 16	1773	464	34	767
Hake, Samuel E., Niles, Ohio. Corn-planter	338,403	Mar. 23	2066	542	34	1320
Halbland, George C., Chicago, Ill. Safety-stop for elevators	337,398	Mar. 9	694	181	34	1060
Haldeman, John. (See Cogswell, Young, and Haldeman						
Hale, Beverly, Rushville, Ill. Balanced slide-valve	347,793	Aug. 24	1863	496	36	833
Hale, Edward E. (See Lane and Hale.)						
Hale, Elias J., Foxcroft, Me. Burner for lamps	351,374	Oct. 26	1809	475	37	349
Hale, George C., Kansas City, Mo. Hitching-strap	346,906	Aug. 10	588	157	36	582
Hale, George C., Kansas City, Mo. Fire-escape	346,907	Aug. 10	589	157	36	582
Hale, George C., Kansas City, Mo. Water-tower	353,132	Nov. 23	1961	524	37	850
Hale, Irving. (See Richards and Hale.)						
Hale, Perley, Burlington, Iowa. Pendent-car elevated-railway system	337,149	Mar. 2	355	92, 93	34	991
Hale, Perley, and W. E. Sparks; said Hale assignor to C. H. Sparks, Chicago, Ill. Device for operating cell-doors	346,155	July 27	1934	498	36	370
Hale, William E. (See Baldwin, Cyrus W., assignor.)						
Hale, William H., New Haven, Conn. Bicycle-saddle	339,289	Apr. 6	251	62	35	47
Hale, William P., Brockport, N. Y. Grain-binder	343,709	June 15	1374	343, 344, 345, 346	35	1269
Haley, Auslem J., Dallas, Tex. Permutation-lock	355,076	Dec. 28	2064	542	37	1111
Haley, Christina J., New York, N. Y. Stocking-supporter	336,917	Mar. 2	50	13	34	936
Haley, Jonathan, Ravenna, Ohio. Ornamental pressed glassware and making the same	341,141	May 4	236	70	35	548
Haley, Jonathan, assignor to Eureka Patent Glass Mold Company, Ravenna, Ohio. Process of and apparatus for pressing glassware	343,520	June 8	1097	276	35	1213
Halfaker, William H., Acton, Ind. Combined drill and planter	352,315	Nov. 9	857	231, 232	37	624

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hall, A. Wilford, New York, N. Y. Mechanical telephone	336,640	Feb. 23	2223	580 / 581	34	854
Hall, Absalom J., Montgomery, Ala. Double driving-rein	339,405	Apr. 6	417	102	35	78
Hall, Albert, Cypress Hills, N. Y. Button-fastener	342,578	May 25	2276	603	35	951
Hall, Albert, Brooklyn, N. Y. Button-fastener	351,437	Oct. 26	1929	502	37	369
Hall, Albert C., Denver, Colo. Wagon-wheel	353,744	Dec. 7	128	36	37	1030
Hall, Albert F., Boston, Mass. Steam-engine	347,344	Aug. 17	1211	324	36	705
Hall, Albert F., Boston, Mass. Steam-engine	350,736	Oct. 12	897	240	37	170
Hall, Alfred, Minneapolis, assignor of one-half to J. Barry, Willmar, Minn. Pocket-umbrella	352,868	Nov. 16	1574	425	37	768
Hall, Allan T., 1 Grosvenor Terrace, Beverley Road, Hull, England. Refining vegetable oils	347,345	Aug. 17	1213	.....	36	705
Hall, Alvin O., deceased; M. A. Hall, administratrix, assignor to W. O. Wyckoff, C. W. Seamans, and H. H. Benedict, New York, N. Y. Copy-holder	343,662	June 15	1269	325	35	1255
Hall, Cassius L., Ypsilanti, Mich. Milk-can	347,174	Aug. 10	967	258	36	651
Hall, Charles. (See Murdock, George J., assignor.)						
Hall, Charles. (See Murdock, George J., assignor.) (Reissue.)						
Hall, Charles, New York, N. Y. Screw	338,956	Mar. 30	2841	749	34	1465
Hall, Charles, New York, N. Y., and J. Young, Newark, N. J., assignors to said Hall. Bolt-machine	340,306	Apr. 20	1738	443	35	323
Hall, Charles S., Worcester, Mass. Box-strap	349,495	Sept. 21	1318	342	36	1307
Hall, Charles S., Worcester, Mass. Box-band	351,048	Oct. 19	1367	359	37	362
Hall, Charles S., A. B. Clemence, and H. F. A. Setterwall, Worcester, Mass. Coating for wire drawing	339,168	Apr. 6	69	.....	35	15
Hall, Chauncey M., assignor of one-half to G. W. Albrecht, Bellaire, Mich. Bow-facing oar.	346,745	Aug. 3	368	99	36	532
Hall, D. D., *et al.* (See Hornish, Harry C., assignor.)						
Hall, Daniel, Galt, Mo. Car brake and starter	339,645	Apr. 13	812	200	35	149
Hall, Daniel, Galt, Mo. Car brake and starter	347,346	Aug. 17	1213	324	36	705
Hall, Edward L., assignor to L. Neike, Baltimore, Md. Telephone-trumpet	350,737	Oct. 12	899	241	37	170
Hall, Edward P., assignor of one-half to F. F. Curtz, Erie, Pa. Attachment for tables, &c.	348,462	Aug. 31	2826	759	36	1020
Hall, Edwin J., San Francisco, Cal. Fountain-pen	341,001	May 4	40	11	35	513
Hall, Edwin L., Deavertown, Ohio. Hay-carrier	340,913	Apr. 27	2575	678	35	480
Hall, F. Rockwood. (See Dearborn, Wyman, assignor.)						
Hall, Francis P., and J. H. Smith, Brewer, Me. Screw-press	335,447	Feb. 2	501	130	34	531
Hall, Frank D. (See Blaney, William H., assignor.)						
Hall, Frederick J., assignor of one-half to F. A. Wallace, Wallingford, Conn. Cuff-holder.	354,471	Dec. 14	1189	318	37	1231
Hall, George F., Long Branch Village, assignor of one-half to W. R. Warwick, Long Branch, N. J. Hammer	338,404	Mar. 23	2067	542	34	1320
Hall, George F., Boston, assignor to Nonantum Worsted Company, Newton, Mass. Wool-conveyer	344,525	June 29	2501	645	35	1489
Hall, George W., New York, N. Y. Spirometer	343,310	June 8	781	195	35	1157
Hall, Hayden H. (See Bull and Hall.)						
Hall, Hayden H., New Hamburg; assignor of one-half to R. H. Bull, New York, N. Y. Segment for constructing tunnels	341,002	May 4	41	11	35	513
Hall, Hayden H., New Hamburg, and R. H. Bull, New York, N. Y. Caisson	346,543	Aug. 3	119	32	36	483
Hall, Henry, St. Pancras, county of Middlesex, England. Tile for facing walls, &c.	347,425	Aug. 17	1320	352	36	724
Hall, Hiram S., Jamestown, N. Y. Machine for making spiral wire springs	350,979	Oct. 19	1245	331 / 332	37	241
Hall, Ira C., *et al.* (See Neal, George W. B., assignor.)						
Hall, Isaac E., Lancaster, Ohio. Guard for cutter-heads	337,493	Mar. 9	849	215	34	1085
Hall, James L., Severance, Kans. Wagon-tongue	342,828	June 1	77	19	35	1021
Hall, James L., Kingston, Mass. Rivet	353,357	Nov. 30	2277	608	37	916
Hall, James O. (See Simmons and Hall.)						
Hall, James W., Albany, N. Y. Device for locking a series of drawers or doors	341,746	May 11	1074	286	35	716
Hall, John D., Orrville, Ohio. Toe-calk for shoes	342,007	May 18	1415	377	35	786
Hall, John E., *et al.* (See Dickson, William R., assignor.)						
Hall, John M., Oxford, Mich. Motor	342,087	May 18	1545	413	35	811
Hall, John S., New York, N. Y. Automatic oiler	342,510	May 25	2162	572	35	929
Hall, John T. (See Wilson, Jerome B., assignor.)						
Hall, Lewis, Worth, Ill. Harvester-reel	338,957	Mar. 30	2842	749	34	1465
Hall, Margaret A., administratrix. (See Hall, Alvin O.)						
Hall, Milan W., Plainfield, N. J., assignor to Hall Steam Pump Company, New York, N. Y. Engine-cylinder lubricator	334,860	Jan. 26	1912	509	34	376
Hall, Milan W., assignor to Hall Steam Pump Company, Plainfield, N. J. Duplex steam-engine	349,157	Sept. 14	851	217 / 218	36	1207
Hall, Morris B., Essex, Conn. Window-hoist	351,976	Nov. 2	361	90	37	525
Hall, Reuben P., Burlington, N. J. Fastener for windows and shutters	353,936	Dec. 7	409	110	37	10-2
Hall, Samuel Z. (See Wheeler and Hall.)						
Hall Steam Pump Company. (See Hall, Milan W., assignor.)						
Hall, Thomas, assignor to Hall Type Writer Company, New York, N. Y. Type-plate for type-writing machines	336,481	Feb. 16	2003	525	34	810
Hall, Thomas G., Brooklyn, N. Y. Pliers	335,694	Feb. 9	850	224	34	599
Hall, Thursten G., Niagara Falls, N. Y. Obtaining oil from wells	345,586	July 13	1125	287	36	208
Hall Type Writer Company. (See Hall, Thomas, assignor.)						
Hall, Tyra R. (See Wroe and Hall.)						
Hall, William A., St. Louis, Mo. Spacing-escapement for type-writing machines	342,352	May 25	1924	508	35	888
Hall, William H., Tiffin, Ohio. Tedder	352,973	Nov. 23	1724	462	37	894
Hall, William H., Tiffin, Ohio. Tedder	352,974	Nov. 23	1725	463	37	895
Hall, William L., Troy, N. Y. Securing bosoms to shirt-bodies	336,106	Feb. 16	1452	382 / 383	34	713
Hall, Zachary T., Philadelphia, Pa. Water-conductor fastening	349,158	Sept. 14	856	219	36	1208
Halladay, Frank E., Plover, Wis. Gun-sight	353,786	Dec. 7	184	50	37	1041
Hallbauer, Albert L., Lynn, Mass. Clamp or holder	344,651	June 29	2663	690	35	1522
Halleck, Richard F., New York, N. Y. Pattern-lining	335,919	Feb. 9	1182	314	34	659
Haller, Charles, New York, N. Y. Folding baby-carriage	340,779	Apr. 27	2401	633	35	449
Haller, W. L. (See Moss, Robert T., assignor.)						
Halley, William, H. F. Wilkinson, and J. E. Bissett, Auburn, Cal. Overflow-gate for reservoirs	349,712	Sept. 28	1621	418	36	1371
Hallidie, Andrew S., San Francisco, Cal. Tramway for curves and cable-grips. (Reissue.)	10,681	Feb. 2	648	170	34	557
Hallidie, Andrew S., San Francisco, Cal. Wire rope or cable	339,646	Apr. 13	813	200	35	149
Halliwell, Jane. (See Lavigne, Joseph P., assignor.)						
Hallman, Marcellus B., *et al.* (See Taliaferro, Ellbeck H., assignor.)						
Hallock, David, New York, N. Y. Weighing-scale	336,641	Feb. 23	2225	581	34	854

Alphabetical list of patentees—Continued.

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Halloway, Seneca V., Buffalo, N. Y. Hame-fastener	346,908	Aug. 10	591	158	36	582
Hallowell, Albert, assignor to Lowell Faucet Company, Lowell, Mass Filter	335,581	Feb. 9	691	183	34	571
Hallstead, William F. (See Dawson, Walter, assignor.)						
Hallum, David, East Liverpool, Ohio, assignor of one-half to R. Hailes. Mold-bed for crockery-ware	338,226	Mar. 16	1816	475	34	1269
Halpin, Cornelius, North Tarrytown, N. Y. Car-coupling	336,806	Feb. 23	2446	642	34	897
Halsey, Edward, San José, Cal. Adding-machine	344,180	June 22	2017	516	35	1395
Halsey, Edward, San José, Cal. Apparatus for multiplication and other arithmetical processes	344,181	June 22	2018	516 / 517	35	1395
Halsey, Edward, San José, Cal. Tax and percentage calculator	344,182	June 22	2020	517	35	1395
Halstead, Charles, New York, N. Y. Coffee-urn	346,278	July 27	2164	542	36	403
Halstead, Charles, New York, N. Y. Coffee-urn	355,013	Dec. 28	1978	520	37	1395
Halstead, John P., Scranton, Pa. Die for making buttons and other articles	343,309	June 8	780	195	35	1157
Halsted, David F., Brooklyn, N. Y. Jersey-waist	339,407	Apr. 6	419	103	35	78
Halsted, David F., Brooklyn, assignor to himself and G. H. Finger, New York, N. Y. Jersey-waist	339,406	Apr. 6	418	103	35	78
Halsted, James M., Oakland, Cal. Temperature-regulating device for incubators	352,053	Nov. 2	468	127	37	547
Halstenbach, August, Buffalo, N. Y. Baby-walker	343,026	June 1	348	90	35	1070
Halter, Andrew. (See Mottinger and Halter.)						
Haltom, Samuel, Louisville, Ky. Car-coupling	342,793	June 1	26	8	35	1011
Halyburton, John P. L., Philadelphia, Pa. Vise	342,008	May 18	1416	378	35	786
Ham Coal Saving Company. (See Ham, John, assignor.)						
Ham, John, Brooklyn, N. Y., assignor to Ham Coal Saving Company. Steam-boiler furnace	348,463	Aug. 31	2826	759	36	1020
Ham, John, Brooklyn, assignor to Ham Coal Saving Company, New York, N. Y. Boiler-furnace	354,057	Dec. 7	589	160	37	1113
Ham, Lemuel M., Boston, Mass. Device for fastening prison-doors	333,749	Jan. 5	352	95	34	65
Ham, Zachariah M., Mineola, Tex. Tongue-support for vehicles	348,122	Aug. 24	2335	627	36	920
Hamacek, Adolph, Ahnapee, Wis. Feed-cutter	346,260	July 27	1993	514	36	382
Hamaker, Frank, Kewaunee, Wis. Feed-cutter	349,713	Sept. 28	1622	418	36	1371
Haman, Frederick H., Wapakoneta, Ohio. Churn-head	349,218	Sept. 14	931	239	36	1223
Hambay, James T., Pittsburg, Pa. Switch and signal apparatus	333,852	Jan. 5	487	132	34	91
Hambay, James T., Pittsburg, Pa. Switch and signal apparatus	342,907	June 1	181	46 47	35	1038
Hambruch, Heinrich F., Hamburg, Germany. Watch-winding mechanism	345,231	July 6	594	151	36	107
Hambruch, Heinrich F., Hamburg, Germany. Mechanical musical instrument	352,054	Nov. 2	469	127	37	547
Hambujer, E., *et al.* (See Kees, Herman, assignor.)						
Hambujer, Ephraim, Detroit, Mich. Car heater	353,558	Nov. 30	2579	689	37	974
Hambujer, Ephraim, assignor to B. G. and M. G. Morris, Detroit, Mich Brush	348,842	Sept. 7	403	110	36	1122
Hambujer, Ephraim, assignor of one half to C. H. Michell, Detroit, Mich. Lock	350,738	Oct. 12	899	241	37	171
Hamell, Henry W., Potsdam, N. Y. Spring-gear for vehicles	340,503	Apr. 20	2011	516	35	374
Hamersly, William H., Catasauqua, Pa. Inhaler	346,909	Aug. 10	592	158	36	583
Hamill, Joseph, Montrose, Lot 3, Prince Edward Island, Canada. Striping-machine	338,734	Mar. 30	2335	669	34	1408
Hamilton, Albert S. (See Bills and Hamilton.)						
Hamilton, C. Kennedy, Jr., New Brighton, N. Y. Bottle-stopper	338,348	Mar. 23	1683	522	34	1306
Hamilton, Catharine M., Decatur, Ill. Convertible chair	335,283	Feb. 2	279	74	34	490
Hamilton, Fred C., Brooklyn, assignor to Hamilton & Lilley, New York, N. Y. Paper-fastener	349,993	Sept. 28	2001	517	36	1444
Hamilton, George J. (See Pudor, J. Ferdinand, assignor.)						
Hamilton, Henry W., Springfield, Mass. Rectal speculum	348,843	Sept. 7	404	110	36	1122
Hamilton, James B., Worcester, Mass. Reed-organ	350,623	Oct. 12	743	203 / 204	37	143
Hamilton, James B., assignor to Hamilton Vocalcon Organ Manufacturing Company, Worcester, Mass. Reed-organ	350,624	Oct. 12	744	204	37	143
Hamilton, James B., assignor to Hamilton Vocalion Organ Manufacturing Company, Worcester, Mass. Reed-organ	350,739	Oct. 12	900	241	37	171
Hamilton, James J., New Castle, Ind. Automatic railway-signal	342,908	June 1	184	47 48	35	1038
Hamilton, James T., Omaha, Nebr. Harrow	351,175	Oct. 19	1540	403	37	295
Hamilton, John H. (See Gordon and Hamilton.)						
Hamilton, John H., Concord, N. H. Seal-press	344,829	July 6	37	10	36	8
Hamilton, Jonathan R. (See Smith, William R., assignor.)						
Hamilton, Jonathan R., Minneapolis, Minn. Rectal speculum	342,704	June 1	28	8	35	1011
Hamilton, Jonathan R., Minneapolis, Minn., and W. R. Smith, Brentwood, N. H.; said Smith assignor to said Hamilton. Syringe	341,142	May 4	237	70	35	548
Hamilton & Lilley. (See Hamilton, Fred C., assignor.)						
Hamilton, Miles E., assignor of one-half to A. B. Radney, Auburn, N. Y. Thill-coupling	347,238	Aug. 10	1051	281	36	666
Hamilton, Miles E., and E. L. Perrigo, Auburn, N. Y. Attachment for finger-bars of harvesters	334,374	Jan. 12	1249	337	34	239
Hamilton, Samuel R. (See Willcoxson, Coulmon W., assignor.)						
Hamilton, Schuyler, Jr., New York, N. Y. Burning brick	340,780	Apr. 27	2402	.....	35	448
Hamilton Vocalion Organ Manufacturing Company. (See Hamilton, James B., assignor.)						
Hamilton, William, Allegheny City, Pa. Device for fastening coffins	345,685	July 20	1277	331	36	243
Hamlin, Evelyn B., Chicago, Ill. Induction-coil for telephone-service	350,130	Oct. 5	44	12	37	11
Hamlin, Frank E., and G. W. Smith, Allen, Mich. Fire-escape	340,573	Apr. 27	2113	545	35	400
Hamlin, Norman S., Marysville, Cal. Syringe-bottle	351,105	Oct. 19	1441	377	37	276
Hamlin, William P., Rogers, Ark. Bee-trap	340,114	Apr. 20	1445	366	35	270
Hamm, Mark, Stockton, Cal. Hot and force blast cupola	354,899	Dec. 28	1818	480 / 481	37	1365
Hammann, Edward, Brooklyn, assignor to J. L. Mott Iron Works, New York, N. Y. Overflow-pipe for water-closets	354,133	Dec. 14	713	191	37	1144
Hammelmann, Charles, Buffalo, N. Y. Mechanical movement	339,547	Apr. 6	643	156	35	116
Hammer-Purgstall, Arthur F., Gräz, Styria, Austria-Hungary. Lip-protector	343,170	June 8	579	145	35	1120
Hammer, Seth R., administrator. (See Symes and Buchtel.)						
Hammerl, Joseph, Long Island City, N. Y. Graining	347,595	Aug. 17	1570	417	36	771
Hammerly, Anton, *et al.* (See Swanger, David, assignor.)						
Hammerschmidt, Hermann, Barmen-Rittershausen, Prussia, Germany. Device for measuring fluids under pressure	350,826	Oct. 12	1029	275	37	195
Hammerstein, George J., assignor to Terre Haute Electric Light and Power Company, Terre Haute, Ind. Electric-lamp support	344,652	June 29	2664	691	35	1522
Hammerstein, Oscar, New York, N. Y. Tobacco stripping and booking machine	347,794	Aug. 24	1863	496	36	833
Hammerstein, Oscar, New York, N. Y. Clutch for tobacco-stripping machines	347,795	Aug. 24	1866	498	36	834
Hammerstein, Oscar, New York, N. Y. Machine for stripping and booking tobacco	347,796	Aug. 24	1868	498 / 499	36	834
Hammerstein, Oscar, New York, N. Y. Cigar-rolling machine	348,206	Aug. 31	2473	665	36	952
Hammick, Joseph T., Rhinebeck, N. Y. Car-coupling	338,405	Mar. 23	2068	542	34	1321
Hammick, Joseph T., Rhinebeck, N. Y. Car-coupling	345,501	July 13	980	248	36	182

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Hammick, Joseph T., Rhinebeck, N. Y. Car-coupling	348,739	Sept. 7	278	74	36	1099
Hammon, Clarence D., Delavan, Minn. Tire-tightener	347,347	Aug. 17	1215	324	36	706
Hammond, Andrew H., Worcester, Mass. Octave-coupler for organs	344,041	June 22	1820	467	35	1458
Hammond, Andrew H., Worcester, Mass. Reed for musical instruments	351,049	Oct. 19	1368	359	37	263
Hammond, George E., Snodland, county of Kent, England. Miter-frame clamp	334,435	Jan. 19	1337	362	34	262
Hammond, Henry, New Haven, Conn. Ax-blank	334,948	Jan. 26	2022	539	34	396
Hammond, Ira, Somerville, Mass. Car-coupling	340,209	Apr. 20	1595	404	35	297
Hammond, J. C., Jr., *et al.* (See Chapman, Samuel A., assignor.)						
Hammond, J. C., Jr., *et al.* (See Pullman, Herbert S., assignor.)						
Hammond, Joseph C., Jr. (See King, Theodore E., assignor.)						
Hammond, Joseph C., Jr. (See King and Hammond.)						
Hammond, Joseph C., Jr., Rockville, and T. E. King, Westport, Conn. Shoe-clasp	334,434	Jan. 19	1336	362	34	262
Hammond, M. Burdett. (See Taylor and Hammond.)						
Hammond, Margaret, Port Madison, Wash. Ter. Patient's elevator and perambulator	353,133	Nov. 23	1963	525	37	850
Hammond, William J. (See Carnahan, Cyrus M., assignor.) (Reissue.)						
Hanmer, William C., Morganfield, Ky. Farm-gate	338,062	Mar. 16	1592	414	34	1295
Hamon, Augustin H., Boulogne-sur-Seine, France. Dirigible aerostat	350,303	Oct. 5	270	77	37	55
Hamor, Geo. D., *et al.* (See Boyer, Thomas J., assignor.)						
Hamor, George D., *et al.* (See Roscoe, Allison M., assignor.)						
Hampe, Adolph. (See Thurnan and Hampe.)						
Hamprecht, August, Wellsburg, W. Va. Decorated glassware	337,324	Mar. 2	598	157	34	1036
Hamprecht, August, Wellsburg, W. Va. Manufacture of decorated glassware	337,325	Mar. 2	599	157	34	1037
Hampton, John A., Rosedale, Kans., and E. C. Sooy, Kansas City, Mo. Baling-press	345,502	July 13	981	248 / 249	36	182
Hamshaw, Charles W., Blue Springs, Mo. Velocipede	348,325	Aug. 31	2632	709 / 710	36	983
Hanan, James D., Brooklyn, N. Y. Pantaloons-protector	346,652	Aug. 3	257	70	36	510
Hanchett, Charles H., Chicago, Ill. Printing-machine with addressing attachment	353,787	Dec. 7	184	51	37	1041
Hanchett, Fred P., Madison, Wis. Car-door fastener	338,519	Mar. 23	2219	582	34	1318
Hanchett, Oren R., Erie, Pa. Sad-iron	352,975	Nov. 23	1726	463	37	805
Hancock, A. Stanley. (See Tefft, James W., assignor.)						
Hancock, Becker & Co. (See Becker, George, assignor.)						
Hancock, George. (See Vanstone, Samuel, assignor.)						
Hand, Edward D. (See Craig, John C., assignor.)						
Hand, Edward P., Newark, N. J. Meat and vegetable cutter	342,353	May 25	1927	509	35	888
Hand, Ekins, assignor of three-fifths to P. E. Rivard and R. C. Kershner, Rochester, N. Y. Hydrant	353,217	Nov. 23	2081	557	37	874
Hand, John S., San Francisco, Cal. Tailor's outline measuring device	341,572	May 11	839	223	35	669
Hand Manufacturing Company, S. Ashton. (See Hand, S. Ashton, assignor.)						
Hand, Oscar. (See Fulford, Bertram, assignor.)						
Hand, S. Ashton, assignor to S. A. Hand Manufacturing Company, Toughkenamon, Pa. Reel	351,593	Oct. 26	2169	561	37	416
Hand Stitch Broom Sewing Machine Company. (See McCombs, George F., assignor.)						
Handforth, Benjamin, Hoboken, N. J. Shade-fixture	348,393	Aug. 31	2724	731	36	1001
Hanlan, Alexander H., Jr., St. Louis, Mo. Head-light	348,464	Aug. 31	2827	760	36	1020
Hands, Alfred C., and F. Parkes, Birmingham, county of Warwick, England. Direct-acting engine	353,134	Nov. 23	1964	525 / 526	37	850
Handshy, Henry M., assignor of one-half to F. J. Shedd, Columbus, Ohio. Cheese-cutting device	354,410	Dec. 14	1102	296	37	1215
Handy, Bethule G., Cornwall, N. Y. Pulley	352,539	Nov. 16	1130	309	37	685
Handy, Henry P., assignor to A. T. Gilkison and L. C. Handy, Fort Collins, Colo. Device for conducting water	340,574	Apr. 27	2113	545	35	400
Handy, Lizzie C., *et al.* (See Handy, Henry P., assignor.)						
Handy, Richard F., New York, N. Y. Railway-car furniture	333,853	Jan. 5	489	132	34	91
Haneberg, Armin, Koloa, Kauai, Hawaii. Feeder for bagasse roller-mills	354,900	Dec. 28	1820	481	37	1366
Haney, Hugh, *et al.* (See Nea, George W. B., assignor.)						
Hanf, Edwin E., Wilmington, Del. Button	340,575	Apr. 27	2115	545	35	400
Hanford, Peckham & McCance Company. (See Hanford, Robert G., Jr., assignor.)						
Hanford, Peckham & McCance Company. (See McCance, David, assignor.)						
Hanford, Robert G., Jr., Columbus, Ohio. Material for making molds	354,316	Dec. 14	986	262	37	1193
Hanford, Robert G., Jr., assignor to Hanford, Peckham & McCance Company, Newark, N. J. Bridle-bit	337,578	Mar. 9	955	245	34	1104
Hanford, Robert G., Jr., assignor to Hanford, Peckham & McCance Company, Newark, N. J. Check-case	339,290	Apr. 6	252	63	35	47
Hanger, James E., Richmond, Va. Lathe for the manufacture of artificial limbs	339,879	Apr. 13	1128	281	35	207
Hanika, Christian, Springfield, Ohio. Constructing metallic fences	346,544	Aug. 3	121	32	36	483
Hanika, Christian, Springfield, Ohio. Fence	351,050	Oct. 19	1370	359	37	263
Hanika, Christian, Springfield, Ohio. Metallic fence	351,763	Nov. 2	46	13	37	467
Hankey, Christopher F., *et al.* (See Bevier, James, assignor.)						
Hankin, William, Sr., Williamsburg, N. Y. Buck-saw frame	337,399	Mar. 9	695	181	34	1061
Hankinson, John N. O., Harrisburg, Pa. Key for locking quoins	346,156	July 27	1937	499	36	371
Hanko, C. F. Hermann, Barmen, Prussia, Germany. Rotary motor	350,196	Oct. 5	137	40	37	29
Hanks, Alexander P., R. Erie, Pa. Blinders for horses' bridles	351,863	Nov. 2	195	54 55	37	495
Hanks, Francis M., and H. N. Sibley, Midway, La. Band-saw mill	336,407	Feb. 16	1901	497	34	792
Hanks, Francis M., and H. N. Sibley, Midway, La. Shingle-sawing machine	355,077	Dec. 28	2067	543	37	1411
Hanks, Mack, Buffalo, N. Y. Pin-holder for electric-wire insulators	355,165	Dec. 28	2197	579	37	1437
Hanley, Michael W., Chicago, Ill. Foot-warmer	339,764	Apr. 13	984	242	35	179
Hanley, Michael W., Chicago, Ill. Separator for steam-generators	355,166	Dec. 28	2197	580	37	1437
Hanley, Patrick F., and F. M. Richey, Homestead, Pa. Feed-table for rolling-mills	352,748	Nov. 16	1415	382	37	738
Hanley, William, Chicago, Ill. Safety-gate for railway-crossings	338,063	Mar. 16	1593	414 / 415	34	1225
Hanley, William, Chicago, Ill. Safety-gate	345,587	July 13	1127	288	36	208
Hanley, William J. (See Jamison, Thomas, assignor.)						
Hanlon, George O., *et al.* (See Hanlon, Joseph P. A., assignor.)						
Hanlon, George O. (See Hanlon, Joseph P. A., J. F., and G. O.)						
Hanlon, John F. (See Hanlon, Joseph P. A., J. F., and G. O.)						
Hanlon, John J., Allentown, Pa. Apparatus for preserving beer	338,958	Mar. 30	2844	750	34	1465
Hanlon, Joseph P. A., assignor of two-thirds to G. O. Hanlon, Cambridge, J. F. Hanlon, Somerville, H. D. Tewksbury and H. Fleetwood, Boston, Mass. Elevated railway	342,088	May 18	1545	413	35	811
Hanlon, Joseph P. A., J. F., and G. O. Boston, Mass. Train-signaling apparatus	337,260	Mar. 2	504	131	34	1019
Hanmore, Hiram M., Philadelphia, assignor of one-half to H. G. Keasbey, Ambler, and R. V. Mattison, Philadelphia, Pa. Boiler-covering	345,843	July 20	1502	389	36	281
Hann, George, and A. Thoma, Grand Rapids, Mich. Wire-stretching machine	355,014	Dec. 28	1979	521	37	1395
Hanna, John F., near Momence, Ill. Portable wire fence	343,171	June 8	580	145	35	1121

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Hanna, John F., near Momence, Ill. Stretching-truck for fence-wire sections	345,966	July 20	1668	432	36	312
Hanna, John F., Momence, Ill. Wire gate	351,375	Oct. 26	1809	476	37	349
Hanna, W. C. (See Barstow, Stephen, assignor.)						
Hannan, William H., Palermo, N. Y. Thill-coupling	341,235	May 4	373	103	35	574
Hanneman, Charles F., Ahnapee, Wis. Steamer	338,064	Mar. 16	1595	415	34	1225
Hannum, Henry A., Cazenovia, N. Y. Hunting-boat	335,100	Feb. 2	147	38	34	467
Hansard, Joseph L., and G. W. Tribby, Oroville, Cal. Distance-instrument	323,625	Jan. 5	166	45	34	33
Hanshrough, Isaac N., *et al.* (See Underwood, John R., assignor.)						
Hanscom, Alvin A. (See Delmage, William A., assignor.)						
Hansell, William, Nevada, Iowa. Electric motor and generator	349,392	Sept. 21	1176	304	36	1279
Hansen, Charles L. N. T., and C. N. Fischer, New York, N. Y. Car-starter	342,959	June 1	261	67, 68	35	1053
Hansen, Christian. (See Mack and Hansen.)						
Hansen, Hans A., Christiania, Norway. Saw-set	351,100	Oct. 19	1442	378	37	276
Hansen, Hans C. (See Layman and Hansen.)						
Hansen, Hans G., Calumet, Mich. Hay and cotton press	340,307	Apr. 20	1742	443	35	324
Hansen, Ludvig, and A. Smith, Wilmington, N. C. Apparatus for distilling wood	333,750	Jan. 5	353	95	34	66
Hansen, Ludwig, *et al.* (See Smith, Henry H., assignor.)						
Hansen, Ole, Walnut Grove, Cal. Fire-escape	336,713	Feb. 23	2323	609	34	874
Hansen, Peder, Fresno, Cal. Gang-plow	344,830	July 6	38	10	36	9
Hansing, Siegfried, Boston, Mass. Stringing pianos	341,003	May 4	42	12	35	514
Hanson, Charles M., assignor of two-thirds to R. S. Milliken and M. M. Thomas, Thorndike, Mass. Bottle-stopper	342,089	May 18	1547	413	35	811
Hanson, Dempsy B. (See Stephens and Hanson.)						
Hanson, Edward H., Philadelphia, Pa. Machine for washing electrotype-molds	335,920	Feb. 9	1183	315	34	659
Hanson, Edward H., Philadelphia, Pa. Wood-planing machine	345,503	July 13	984	249	36	182
Hanson, Francis O., Kenton, Ohio. Bolt for prison-doors	353,079	Nov. 23	1860	502	37	829
Hanson, Joseph, Philadelphia, Pa. Apparatus for dyeing	338,859	Mar. 30	2679	705, 706	34	1435
Hanson, Joseph, Philadelphia, Pa. Dyeing-machine	354,901	Dec. 28	1821	422	37	1366
Hanson, Richard. (See Crossley, Hanson, and Hicks.)						
Hanson, Theophilus. (See Hahlo, Liebreich, and Hanson.)						
Hanson, Walter T., Macon, Ga. Machine for winding yarn	353,745	Dec. 7	129	36	37	1030
Hanson, William H., East Milan, Mich. Churn-dasher	352,991	Nov. 23	1751	469	37	810
Hapgood Plow Company. (See Black, Joseph P., assignor.) (Reissue.)						
Hapgood Plow Company. (See Pates, Thomas, assignor.)						
Happe, John, Brooklyn, N. Y. Quilting-machine	349,090	Sept. 14	761	194, 195	36	1190
Happersberger, Frederik, Madison, Ind. Countersinking-tool	336,566	Feb. 23	2119	556	34	837
Haralson, August, and G. R. Anderson, Minneapolis, Minn.; said Anderson assignor to said Haralson. Sofa-bedstead	351,029	Oct. 19	1341	372	37	278
Harbach, Benjamin S., Philadelphia, Pa. Amalgamating	340,504	Apr. 20	2012	516	35	374
Harbach, Benjamin S., Philadelphia, Pa. Amalgamator	340,874	Apr. 27	2527	665	35	471
Harbert, John W., Sheldon, Mo. Burglar-proof window-fastening	346,545	Aug. 3	122	32	36	483
Harbin, James W., Vincennes, assignor of one-half to L. O. Bailey, Indianapolis, Ind. Corn-planter	337,261	Mar. 2	505	132	34	1019
Harbort, Valentin, Jersey City, N. J. Lifting device	352,818	Nov. 16	1510	406	37	755
Harbster, Howard E. (See McConnell and Harbster.)						
Hard, J. Randolph, New York, N. Y. Medico-electrical apparatus	348,465	Aug. 31	2828	760, 761	36	1021
Hardcastle, Robert A., Leeds, county of York, England. Machine for forging, cutting, or punching metal	354,411	Dec. 14	1104	296	37	1215
Harden, Frank P., Minneapolis, Minn. Packing-case	344,103	June 22	1910	489	35	1376
Harden, George T., assignor to himself, L. and P. Swift, Middleport, Ohio. Nail-plate feeder	346,746	Aug. 3	368	99	36	533
Harden, Thomas E. (See Gibson, Lyman B., assignor.)						
Harden, William D., and J. P. White, assignors of two-thirds to said Harden and one-third to said White. Toy vehicle	341,329	May 4	505	139	35	597
Hardenbergh, Henry D., Union City, assignor of one-half to W. Schaeffer and W. J. Baker, Jamton, Ohio. Kitchen-safe	335,921	Feb. 9	1184	315	34	660
Hardenbergh, Sarah M., Le Fever Falls, N. Y. Carriage-seat	354,979	Dec. 28	1925	509	37	1386
Harder, Edward G., Ashnelot, N. H. Thill-coupling	346,279	July 27	2105	542	36	403
Harder, Victor A., New York, N. Y. Bathing apparatus	336,642	Feb. 23	2227	584	34	855
Harder, William A., Lansinghburg, N. Y. Shirt	353,746	Dec. 7	131	36	37	1031
Hardey, Gordon, *et al.* (See Fisher, John R. and L. T., assignors.)						
Hardgrove, Henry M., Fond du Lac, Wis. Washing-machine	354,134	Dec. 14	714	192	37	1144
Harding, Henry W., *et al.* (See Dumontier and Plourde, assignors.)						
Hardingham, George G. M., London, county of Middlesex, England. Steam-generator	348,672	Sept. 7	193	51, 52	36	1082
Hardison, Thomas Y., and C. C. Bowman, Wadesborough, N. C. Planter	341,747	May 11	1075	286	35	716
Hardman, Fred H., Taunton, Mass. Machine for making shoe-buttons	353,677	Dec. 7	38	10	37	1014
Hardman, John, assignor to Hardman, Peck & Co., New York, N. Y. Music-rest for pianos	339,169	Apr. 6	70	21	35	15
Hardman, John, New York, N. Y., and W. H. Dutton, Philadelphia, Pa. Harp-stop for upright pianos	339,170	Apr. 6	71	21	35	16
Hardman, Peck & Co. (See Hardman, John, assignor.)						
Hardman, Peck & Co. (See La Grassa, Salvadore, assignor.)						
Hardman, Wilford V., Butler, Pa. Combined casing-cap and tubing tester and cleaner	343,239	June 8	677	168	35	1138
Hardt, Anton, Wellsborough, Pa. Furnace for burning fine coal	340,781	Apr. 27	2403	633	35	449
Hardwick, Harry, Philadelphia, Pa. Ingrain-carpet fabric	353,135	Nov. 23	1966	526	37	851
Hardy, Emery E., Newark, N. J. Bridle	352,668	Nov. 16	1344	363	37	724
Hardy, Emery E., and S. A. Wall, Newark, N. J. Fastener for harness-mountings	345,428	July 13	884	219	36	164
Hardy, Isham T., St. Louis, Mo. Boiler-cleaner	354,016	Dec. 7	532	145	37	1103
Hardy, Lewis W., assignor to W. C. Gunn, Chicago, Ill. Steam-engine	335,191	Feb. 2	148	38	34	467
Hare, John, assignor to Morgan Nut Lock Washer Company, Wilmington, Del. Manufacture of nuts and washers	351,978	Nov. 2	363	99	37	526
Hare, John R., Baltimore, Md. Watch-pendant bow	351,977	Nov. 2	362	99	37	526
Harell, Richard, assignor to W. H. Harell, Dunkirk, N. Y. Steam-boiler	348,007	Aug. 24	2177	579	36	890
Harell, Richard, assignor to W. H. Harell, Dunkirk, N. Y. Portable steam-boiler	350,586	Oct. 12	685	186	37	131
Harell, William H. (See Harell, Richard, assignor.)						
Harford, Henry B., *et al.* (See Witherell, Loren R., assignor.)						
Harger, David, Des Moines, Iowa. Roofing	348,844	Sept. 7	405	110	36	1122
Hargrave, Moses C., Wilmington, N. C. Sash-holder	345,050	July 6	354	89	36	64
Hargrave, Samuel, Sr., Pomona, Ill. Slitting-gage	341,477	May 11	707	190	35	643
Hargrave, Samuel, Sr., and A. M. Lee, Pomona, Ill. Fire-escape	339,647	Apr. 13	814	200	35	149
Hargrove, John R., Sparbrook, county of Worcester, England. Furniture-caster	349,588	Sept. 21	1439	371	36	1330

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Harker, Charles C., Troy, Ohio. Apparatus for medicating water	349,884	Sept. 28	1857	479	36	1418
Harker, Henry K., assignor to C. B. Spinning and C. S. Gallager, Cincinnati, Ohio. Seal-lock	340,041	Apr. 13	1350	338	35	247
Harkins, Charles H., St. Louis, Mo. Water-closet valve	344 270	June 22	2141	549	35	1417
Harkins, James J. and J., Pittsburg, Pa. Car-brake	337,579	Mar. 9	956	245	34	1104
Harkins, John. (See Harkins, James J. and J.)						
Harkness, William, New York, N. Y. Fire-extinguishing apparatus	340,210	Apr. 20	1597	404	35	298
Harlow, Charles F., and E. E. Angell, Malden, assignors to Globe Sewing Machine Company, Boston, Mass. Sewing-machine	349,393	Sept. 21	1177	305	36	1279
Harlow, Charles F., and E. E. Angell, Malden, assignors to Globe Sewing Machine Company, Boston, Mass. Sewing-machine	349,844	Sept. 28	1807	467	36	1408
Harlow, Charles F., and E. E. Angell, Malden, assignors to Globe Sewing Machine Company, Boston, Mass. Presser-foot-lifting mechanism	350,304	Oct. 5	271	78	37	55
Harlow, Charles F., and E. E. Angell, Malden, assignors to Globe Sewing Machine Company, Boston, Mass. Combined adjustable presser-foot and gage for sewing-machines	350,740	Oct. 12	902	242	37	171
Harlow, Charles F., and E. E. Angell, Malden, assignors to Globe Sewing Machine Company, Boston, Mass. Feeding mechanism for sewing-machines	351,051	Oct. 19	1372	360	37	263
Harlow, Charles F., and E. E. Angell, Malden, assignors to Globe Sewing Machine Company, Boston, Mass. Sewing-machine	351,594	Oct. 26	2170	561	37	416
Harlow, Lucius, Holyoke, Mass. Sheet-feeding device for paper calendering machines	350,741	Oct. 12	903	242	37	171
Harlow, Walter C. (See Kelsey, Edward P., assignor.)						
Harman, David H., New Philadelphia, Ohio. Eaves-trough hanger	347,348	Aug. 17	1217	325	36	706
Harman, Samuel W., Aliceville, Kans. Wire-stretcher	349,041	Sept. 14	692	177	36	1178
Harman, Stephen S., New York, N. Y. Cushion and guard for pen-holders	344,961	July 6	222	57	36	41
Harmer, Henry A., East Newark, assignor to himself, J. Geary, and C. H. Price, Newark, N. J. Billiard-cue-tip fastener	334,861	Jan. 26	1915	510	34	376
Harmon, Charles L., assignor to E. B. Howe, trustee, Lowell, Mass. Carding-engine	339,097	Mar. 30	3056	809	34	1500
Harmon, Daniel J., Jr., *et al.* (See Austin, Aronamous B., assignor.)						
Harmon, I. M. (See Woodward and Copeland, assignors.)						
Harmon, Orville S. (See Lorillard and Harmon.)						
Harmon, Orville S., Brooklyn, N. Y. Plate-printing machine	334,225	Jan. 12	1040	277	34	201
Harmon, Orville S., Brooklyn, N. Y., a signor to P. Lorillard & Co., Jersey City, N. J. Combined nail-extractor and box-opener	344,653	June 29	2665	691	35	1522
Harmon, Osceola D., Hollsburg, Pa. Combination-tool	334,862	Jan. 26	1916	510	34	376
Harmon, Osceola D., Philadelphia, Pa. Nut-lock	339,880	Apr. 13	1131	281	35	208
Harmon, Willard D., Beloit, Wis. Animal-bit	345,051	July 6	355	89	36	65
Harmount, George A. (See Bachner, Joseph, assignor.)						
Harmstead, Charles A., Urbana, Ohio. Combined brace for brow-bands and winkers for bridles	348,207	Aug. 31	2476	665	36	952
Harned, Francis P. (See Carson and Harned.)						
Harned, Frank P., Camden, N. J. Making neutral aluminous compounds	342,599	May 25	2277	.....	35	951
Harned, Thomas B. (See Snellenburg, Samuel, assignor.)						
Harney, John M., Florisant, Mo. Refrigerator	349,253	Sept. 14	983	251	36	1233
Harney, Michael C., assignor of one-half to W. N. and A. Brennau, St. Louis, Mo. Seal-lock	346,157	July 27	1938	499	36	371
Harney, Michael C., assignor of one-half to W. N. and A. Brennau, St. Louis, Mo. Seal-lock	351,030	Oct. 19	1342	353	37	258
Harper, James M., Peoria, Ill. Ticket-case	342,354	May 25	1927	509	35	889
Harral, Edward W. (See Hawley, Theodore, assignor.)						
Harrell, John W., Winston, N. C. Car-coupling	352,240	Nov. 9	757	202	37	605
Harrell, Joseph J., Austin, assignor of one-half to J. M. Wendelken Dallas, Tex. Animal-shears	343,240	June 8	678	168	35	1138
Harriman, Charles, Yonkers, N. Y. Vacuum-pan	350,360	Oct. 5	345	99	37	70
Harriman, Moses, Detroit, Mich. Boot or shoe finishing jack	353,449	Nov. 30	2416	645	37	913
Harrington, Charles F., Lyndhurst, N. J. Hub-attaching device	353,218	Nov. 23	2082	557	37	874
Harrington, Chauncey F., Lowell, Mass. Device for securing violin-bows	337,059	Mar. 2	235	63	34	969
Harrington, Gardner P. (See Darling, William H., assignor.)						
Harrington, Henry M. (See Mansfield, Henry A., assignor.)						
Harrington, Humphrey, Indianapolis, Ind. Gate-latch	336,714	Feb. 23	2324	609	34	874
Harrington, John. (See Birck and Fischer, assignors.)						
Harrington, John H., New Bedford, Mass. Car-coupling	337,150	Mar. 2	358	93	34	992
Harrington, Mark W. (See Smith, James M., assignor.)						
Harrington, Samuel H., Columbus, Ohio. Compensator for wire-rope signal connections	344,042	June 22	1822	467	35	1359
Harrington, Samuel H., Columbus, Ohio. Car-coupling	350,486	Oct. 12	545	151 152	37	108
Harrington, Samuel H., assignor of one-half to E. B. Wall, Columbus, Ohio. Derailment-brake.	341,573	May 11	841	224	35	669
Harrington, Samuel H., assignor of one-half to E. B. Wall, Columbus, Ohio. Case for papers, maps, &c.	344,444	June 29	2381	613	35	1468
Harrington, Stephen H., Chicago, Ill. Making perforated screening-plates	354,412	Dec. 14	1105	297	37	1216
Harris, Alonzo C., Louisville, Ky. Galvanic battery	341,907	May 18	1293	346	35	765
Harris, Azariah B. (See Leve, Gustave, assignor.) (Reissue.)						
Harris, Azariah B., Springfield, Mass. Ventilator for railway-cars	335,448	Feb. 2	502	131	34	531
Harris, Azariah B., Springfield, Mass. Railway-car	342,090	May 18	1548	413 414	35	812
Harris, Azariah B., Springfield, Mass. Car-ventilator	346,040	July 20	1777	457	36	330
Harris, Azariah B., Springfield, Mass. Game-puzzle	347,596	Aug. 17	1571	417	36	771
Harris, Benjamin P., Southfleet, and A. Stagg, Milton, county of Kent, England. Kiln for drying purposes	349,091	Sept. 14	766	195	36	1191
Harris Button Hole Attachment Company. (See Harris, John K., assignor.)						
Harris, Carleton C. (See Gibson and Harris.)						
Harris, Carleton C., Denver, Col. Device for stopping horses	352,241	Nov. 9	758	202	37	605
Harris, Charles R., Philadelphia, Pa. Car-coupling	350,244	Oct. 5	201	57	37	42
Harris, Charles R., Jersey Shore, assignor to himself and W. Silverman, Williamsport, Pa. Suspender or other buckle	345,967	July 20	1669	432	36	313
Harris, Charles T. (See Harris, John P., and C. T.)						
Harris, Charles W., Garnett, Kans. Bagasse-feeder	346,099	July 27	1849	477	36	355
Harris, David M., Douglass, Kans. Car-coupling	334,169	Jan. 12	948	256 257	34	183
Harris, Edward, Cambria, Wis. Folding box or crate	334,375	Jan. 12	1250	337	34	239
Harris, Edward, Cambria, Wis. Box-fastener	335,812	Feb. 9	1026	271	34	632
Harris, Elmer S., Haverhill, Mass. Attachment for sewing-machines	334,118	Jan. 12	868	238	34	168
Harris, Elmer S., Haverhill, Mass. Sole for boots or shoes	337,060	Mar. 2	236	63	34	969
Harris, Elmer S., Haverhill, Mass. Machine for trimming the lips of channeled boot or shoe soles	343,452	June 8	1012	252	35	1197

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Harris, Elmer S., Haverhill, Mass. Machine for turning up the lip of channeled boot or shoe soles	343,453	June 8	1013	252	35	1198
Harris, Frank H., Toledo, Ohio. Wheel	353,060	Nov. 23	1860	502	37	829
Harris, George E., *et al.* (See Harris, George F., assignor.)						
Harris, George F., New York, N. Y., assignor to G. D. Harris, Keene, N. H., and G. E. Harris, Mahopac Falls, N. Y. Laying railway-tracks	340,042	Apr. 13	1351	339	35	247
Harris, George H., Bloomington, Ill. Calculator	352,408	Nov. 9	972	261	37	648
Harris, George M., Pawnee City, Nebr., assignor to himself, J. G. Maclay, Jr., and W. H. Harrum. Brick-kiln	346,653	Aug. 3	257	71	36	510
Harris, Gilbert J. (See Flewwelling and Harris.)						
Harris, Gordis D., *et al.* (See Harris, George F., assignor.)						
Harris, Harry L. and W. L., San Francisco, Cal. Sign	344,373	June 29	2289	589	35	1451
Harris, Harry L. and W. L., San Francisco, Cal. Gas regulator	344,654	June 29	2666	691	35	1522
Harris, Hiram S., Jett, Ky. Gate	344,271	June 22	2142	549	35	1417
Harris, Ira, Cleveland, Ohio. Forging stops for cable railways	343,271	June 8	724	189	35	1146
Harris, Ira, Cleveland, Ohio. Die for making shears	352,409	Nov. 9	973	261 / 262	37	648
Harris, J. Nelson, assignor to American Axle and Wheel Company, New York, N. Y. Hub for vehicle-wheels	351,764	Nov. 2	48	13	37	468
Harris, J. Nelson, assignor to American Axle and Wheel Company, New York, N. Y. Axle lubricator	351,765	Nov. 2	50	13, 14	37	468
Harris, J. Nelson, assignor to American Axle and Wheel Company, New York, N. Y. Vehicle axle and hub	351,766	Nov. 2	53	14	37	468
Harris, James A. (See Roberts, Harrison, assignor.)						
Harris, James B., Jr., Geneseo, N. Y. Roller-skate	333,751	Jan. 5	354	96	34	66
Harris, James B., Jr., Geneseo, N. Y. Floor-grinding machine	336,918	Mar. 2	51	14	34	936
Harris, James B., Jr., Geneseo, N. Y. Roller-skate	337,151	Mar. 2	359	94	34	992
Harris, James E. (See Knowlton and Harris.)						
Harris, Jennette E. (See Harris, William H., assignor.)						
Harris, John, and J. Lucas, assignors to A. Harris, Son & Co., (limited,) Brantford, Ontario, Canada. Harvester-binder	349,994	Sept. 28	2002	517	36	1445
Harris, John K., Springfield, Ohio, assignor to Harris Button Hole Attachment Company, New York, N. Y. Button-hole attachment for sewing-machines	340,715	Apr. 27	2314	609	35	432
Harris, John P. and C. T., Newburg, N. Y. Windlass for elevators	347,239	Aug. 10	1052	281	36	666
Harris, Jonathan, Grand Ledge, Mich. Spring curtain-roller	338,065	Mar. 16	1306	345	34	1225
Harris, Joseph, Jr., Boston, Mass. Tire-heating furnace	350,131	Oct. 5	45	12	37	11
Harris, Joshua W., Avis, Va. Transplanter	340,211	Apr. 20	1599	404 / 405	35	298
Harris, Milo. (See Ames and Harris.)						
Harris, Milo. (See Butler and Harris.)						
Harris, Nathan, Wabash, Ind. Railway-gate	345,896	July 20	1576	407	36	295
Harris, Nelson E., Orange, Mass. Hydraulic motor	337,766	Mar. 9	1181	397	34	1144
Harris, Noah, assignor of three-fourths to E. M. Fuller, O. G. Ritterskamp, and R. C. Barbero, Vincennes, Ind. Convertible axle-lathe	343,955	June 15	1692	433 / 434	35	1330
Harris, Orrin C., Newport, N. Y. Car-coupling	345,504	July 13	985	249	36	183
Harris, Richard G., assignor of two-thirds to W. Fisher, Boonsborough, and L. W. Reynolds, Boone, Iowa. Steam-engine	349,275	Sept. 14	1006	257	36	1238
Harris, Robert L., Brooklyn, N. Y. Electric subway	344,962	July 6	223	57	36	41
Harris, Robert L., Brooklyn, N. Y. Conductor for electric railways	348,008	Aug. 24	2178	579	36	891
Harris, Son & Co., A. (See Harris and Lucas, assignors.)						
Harris, Willard L. (See Harris, Harry L. and W. L.)						
Harris, William E., New York, N. Y. Manufacturing white lead	352,316	Nov. 9	860		37	624
Harris, William E., St. Louis, Mo. Three-high rolling-mill	353,450	Nov. 30	2417	645 / 646	37	943
Harris, William H., assignor to J. E. Harris, Buffalo, N. Y. Mold for forming castings	340,043	Apr. 13	1356	340	35	248
Harris, William R., Manchester, county of Lancaster, England. Belt or strap fastener	346,747	Aug. 3	360	99	36	533
Harris, William S., Arlington, assignor of one half to W. R. Turk, Bardwell, Ky. Nut-lock	350,827	Oct. 12	1032	276	37	195
Harris, William W. (See Davis, Frank E., assignor.)						
Harrison, Alfred C., Philadelphia, Pa. Retort for calcining bone-black	345,968	July 20	1671	432	36	313
Harrison Brothers & Co. (See Semper, Conrad, assignor.)						
Harrison, George A. (See Vanderwerken and Harrison.)						
Harrison, Henry H., New York, N. Y. Combined feeder and cutter for toilet-paper	345,052	July 6	356	90	36	65
Harrison, James P., Danville, Va. Platform-gate for railway-cars	339,171	Apr. 6	73	21, 22	35	16
Harrison, Jeremiah, O. Huntress, and A. S. Lewis, Manhattan, Kans.; said Huntress assignor to said Harrison and Lewis. Car-coupling	347,035	Aug. 10	764	203	36	613
Harrison Machine Works. (See Stout, James A., assignor.)						
Harrison, Martin E., Pittsburg, Pa. Bearing-brass for car-axle journals	345,232	July 6	595	151	36	108
Harrison, Thomas, Philadelphia, Pa. Loom for weaving pile fabrics	353,937	Dec. 7	410	110 / 111	37	1082
Harrison, Thomas, Philadelphia, Pa. Machine for preparing astrakhan warp-threads	353,938	Dec. 7	413	111 / 112	37	1082
Harrison, Thomas D. (See Manson, George W., assignor.)						
Harrison, William E. (See Flanigan and Harrison.)						
Harrison, William F. (See Lynch and Harrison.)						
Harrison, William H., assignor to Street Car Money Drawer Company, Louisville, Ky. Money-drawer for fare-boxes	337,262	Mar. 2	508	132 / 133	34	1020
Harrison, William M., Baltimore, Md. Hand fire-extinguisher	348,520	Mar. 23	2220	552	34	1348
Harrod, Perry, West Warsaw, assignor of one-fourth to J. Price, Sidney, Ohio. Device for gaining leverage	334,771	Jan. 26	1802	479	34	356
Harrod, William H. (See Allen and Harrod.)						
Harrold, Mahlon, Denver, Colo. Combined suction and force pump	344,445	June 29	2382	613	35	1468
Harrold, Mahlon, Fort Worth, Tex. Air-compressor	345,969	July 20	1673	433	36	313
Harrop, Seth, Cabery, Ill. Band-cutting attachment for thrashers	348,966	Sept. 14	583	154	36	1160
Harrum, William H., *et al.* (See Harris, George M., assignor.)						
Harshman, Jonathan S., Harshman, Ohio. Railway-rail	348,673	Sept. 7	196	52	36	1082
Harstrom, Carl G., Peekskill, N. Y. Collar-button	333,752	Jan. 5	355	96	34	66
Hart, Amos D., Elmira, N. Y. Building-bracket	334,772	Jan. 26	1803	480	34	356
Hart, Edward H., New York, N. Y. Supporting-bandage	349,793	Sept. 28	1734	447	36	1392
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Combined wheel and pinion for watches	338,959	Mar. 30	2844	750	34	1465
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Mainspring-barrel for watches	338,960	Mar. 30	2845	750	34	1466
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Manufacture of a combined pinion and ratchet	338,961	Mar. 30	2846	750	34	1466

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Manufacture of a combined wheel and pinion	338,962	Mar. 30	2846	751	34	1466
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Manufacture of mainspring-barrels	338,963	Mar. 30	2847	751	34	1466
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Manufacture of dial-wheels	338,964	Mar. 30	2848	751	34	1466
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Winding pinion and ratchet for watches	345,588	July 13	1128	288	36	208
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Watch-dial wheel	345,589	July 13	1129	288	36	208
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Watch-balance	352,819	Nov. 16	1511	407	37	735
Hart, Gerald W., Quincy, Ill. Electro-magnetic boiler-cleaner	354,637	Dec. 21	1450	385	37	1283
Hart, Harrie B., Philadelphia, Pa. Velocipede	339,765	Apr. 13	981	242	35	179
Hart, Harry, *et al.* (See Noyes, Henry J., assignor.)						
Hart, Henry C., Detroit, Mich. Wash-bowl and pump for sleeping-cars	335,922	Feb. 9	1185	315	34	660
Hart, Hubert C., Unionville, Conn. Manufacture of knife-handles	338,521	Mar. 23	2221	583	34	1349
Hart, Hubert C., Unionville, assignor to F. Brainerd, Bristol, Conn. Saw-setting device	344,655	June 29	2666	C92	35	1523
Hart, John W. (See Lang and Hart.)						
Hart, Samuel G. (See Brayton, James T., assignor.)						
Hart, Sarah A. (See Herman, Addison M., assignor.)						
Hart, Stacy B., Peoria, Ill. Grain-drill	344,372	June 22	2142	549	35	1418
Hart, Thomas J. (See Jenks and Hart.)						
Hart, William A., La Salle, assignor to J. E. Robie, Buffalo, N. Y. Handle for blowers	338,227	Mar. 16	1817	475	34	1269
Hart, William H., assignor to Stanley Works, New Britain, Conn. Strap-hinge	333,854	Jan. 5	491	133	34	91
Hart, William, H. Jr., Philadelphia, Pa. Retaining-pin for neck-wear	342,355	May 25	1931	509	35	889
Harter, Joseph V., Denver, Ill. Seed-drill	351,698	Oct. 26	2310	600	37	442
Hartford Fruit-Jar Company. (See Taylor, Frederick D., assignor.)						
Hartford Machine Screw Company. (See Stehli, Jakob, assignor.)						
Harthan, Warren P., assignor of one-half to H. J. Jennings, Worcester, Mass. Steam-heating apparatus	353,451	Nov. 30	2419	646	37	944
Hartigan, William R., Burlington, assignor of one-half to W. H. Goodwin, Canton, Conn. Bed	350,458	Oct. 5	492	138	37	94
Hartley, Frank, St. Rosa, Ohio. Brick-machine	341,653	May 11	947	250	35	690
Hartley, Charles J., Decatur, Ill. Corn-harvester	348,627	Sept. 7	131	37	36	1071
Hartley, Henry, Minneapolis, Minn. Stone-sawing machine	340,875	Apr. 27	2530	665	35	472
Hartley, James, Brooklyn, N. Y. Water-tube for boilers	335,695	Feb. 9	850	225	34	599
Hartley, James, Brooklyn, N. Y. Steam-boiler	335,696	Feb. 9	852	225, 226	34	599
Hartley, James, Brooklyn, N. Y. Steam-boiler	335,697	Feb. 9	855	226, 227	34	600
Hartley, James, assignor to Pioneer Iron Works, Brooklyn, N.Y. Tube-expander	342,356	May 25	1932	510	35	889
Hartley, James, assignor to Pioneer Iron Works, Brooklyn, N.Y. Header for steam-boilers	350,361	Oct. 5	347	100	37	70
Hartley, James, assignor to Pioneer Iron Works, Brooklyn, N.Y. Header for steam-boilers	354,902	Dec. 28	1822	482	37	1366
Härtling, Paul H., Berlin, Germany. Mechanical musical instrument	340,876	Apr. 27	2531	666	35	472
Hartman, Henry W. (See Boughton, Darius F., assignor.)						
Hartman, Jacob, assignor of one-half to A. H. Moore, Philadelphia, Pa. Fastening for railway-rails	338,066	Mar. 16	1597	415	34	1226
Hartman, John M., Philadelphia, Pa. Regenerative hot-blast stove	353,747	Dec. 7	131	37	37	1031
Hartman, Otto. (See Collins, Horatio E., assignor.)						
Hartman, Rufus A., Berwick, Pa. Railway-gate	347,429	July 13	882	220	36	164
Hartman, Stephen A. D., Charles City, Iowa. Harrow	339,408	Apr. 6	430	103	35	78
Hartman, Warren, Enfield, N. C. Device for supporting setting	340,782	Apr. 27	2404	633	35	450
Hartman, William H., *et al.* (See Kittell, Ernest A., assignor.)						
Hartmann, Bernhard, Belleville, Ill. Refrigerator	333,855	Jan. 5	491	133	34	91
Hartmann, Emil, assignor of one-half to C. Wendt, Philadelphia, Pa. Car-starter and brake	353,632	Nov. 30	2692	719	37	993
Hartmann, Paul, Heidenheim, Würtemberg, Germany. Wood wool	339,291	Apr. 6	253	.....	35	47
Hartmeyer, John, assignor to himself, J. P. and A. Palmer, Zanesville, Ohio. Water-cooler	346,849	Aug. 3	493	136	36	557
Hartness, James, Torrington, Conn. Tension mechanism for spindles of metal-working machines	339,882	Apr. 13	1134	282	35	209
Hartsfeld, Charles L., Newport, Ky. Furnace for precious metals	338,265	Mar. 23	1867	490, 491	34	1286
Hartshorn, Eugene H., Boston, Mass. Holder for polishing materials	340,783	Apr. 27	2405	634	35	450
Hartshorn, Stewart, Millburn, N. J. Spring shade-roller	335,449	Feb. 2	503	131	34	531
Hartshorne, H. G., *et al.* (See Howe, Patrick, assignor.)						
Hartshorne, William D. (See Petzold, Charles G., assignor.)						
Hartson, La Fayette, Wyoming, Iowa. Wear-plate for harness	336,313	Feb. 16	1775	464	34	768
Hartung, Otto U., Leipsic, Saxony, Germany. Balloon	354,413	Dec. 14	1105	297	37	1216
Hartwell, Egbert T. (See Hartwell, John T., assignor.)						
Hartwell, John T., assignor of one-half to E. T. Hartwell, Delphos, Ohio. Sectional ladder	342,909	June 1	187	48	35	1039
Harty, William, assignor to N. Chase, F. A. Taylor, M. B. Shaw, and F. J. Henry, Kalamazoo, Mich. Harrow-tooth	337,951	Mar. 16	1447	375	34	1199
Harty, William, assignor of one-half to C. D. Rood, Kalamazoo, Mich. Vehicle-spring	347,175	Aug. 10	969	259	36	651
Hartz, Albert, assignor of one-half to J. G. Bunell, Richland Centre, Wis. Combined pad-buckle and trace-loop	338,406	Mar. 23	2070	542	34	1321
Hartz, Henry V., Cleveland, Ohio. Machine for making hooks	334,432	Jan. 19	1333	361	34	261
Hartz, Henry V., Cleveland, Ohio. Machine for forming eyes for metal bolts and hooks	334,433	Jan. 19	1335	361	34	261
Hartz, Henry V., Cleveland, Ohio. Bread-cutter	343,311	June 8	782	196	35	1157
Harvey, Amasa. (See Shavalier and Harvey.)						
Harvey, Charles A., Washington, D. C. Grip for cable railways	347,597	Aug. 17	1572	417, 418	36	772
Harvey, Francis H. (See Warner, Henry K., assignor.)						
Harvey, George, Winnipeg, Manitoba, Canada. Car-seat	352,055	Nov. 2	470	127, 128	37	547
Harvey, Hayward A., Orange, N. J. Nut-lock	340,308	Apr. 20	1742	444	35	324
Harvey, Hayward A., Orange, N. J., and C. S. Clark, assignors, by mesne assignments, to American Screw Company, Providence, R. I. Multiple screw-shaving machine	348,967	Sept. 14	586	155, 156	36	1160
Harvey, James. (See Slanker, Frank O., assignor.)						
Harvey, Patrick, Chicago, Ill. Valve	334,431	Jan. 19	1333	360	34	261
Harvey, Patrick, Chicago, Ill. Exhaust for water-closets	343,172	June 8	581	145, 146	35	1121
Harvey, Patrick, Chicago, Ill. Water-closet	349,347	Sept. 21	1090	279	36	1263
Harvey, Patrick, Chicago, Ill. Water-closet	349,348	Sept. 21	1092	280	36	1263
Harvey, Patrick, Chicago, Ill. Valve	354,414	Dec. 14	1107	297	37	1216
Harvey, Patrick, Chicago, Ill. Stop-and-waste connection for tanks	354,700	Dec. 21	1538	408	37	1300

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Harvey, Patrick, Milwaukee, Wis. Tank-operating device for water-closets	354,701	Dec. 21	1540	408	37	1301
Harvey, Patrick, and F. A. Wells, Chicago, Ill. Water-closet	342,203	May 18	1679	448	35	836
Harwood, John, Somerville, Mass. Ring-gage	343,582	June 15	1197	301	35	1238
Hasecoster, George, St. Louis, Mo. Furnace for steam-boilers	350,245	Oct. 5	262	58	37	42
Haseltine, S. A., *et al.* (See Bartlett, Henry F., assignor.)						
Haseltine, Sumner C., *et al.* (See Driskell, Madison M., assignor.)						
Haseman, Max. (See Buchheit, John, assignor.)						
Hasenbach, Wilhelm, Mannheim, Germany. Separating the tin from scrap or pieces of tin-plate or tinned iron by means of hydrochloric acid	344,575	June 29	2560	662	35	1501
Hasselclever, Friedrich A., Dusseldorf, Germany, assignor to Upson Nut Company, Unionville, Conn. Manufacture of blanks for hexagonal nuts. (Reissue)	10,788	Dec. 7	622	170	37	1120
Haskell, Charles S. (See Roosevelt and Haskell.)						
Haskell, Charles S., Philadelphia, Pa., assignor to H. L. Roosevelt, New York, N. Y. Pneumatic action for organs	337,326	Mar. 2	600	157	34	1037
Haskell, Jenny M., Greenwich, N. Y. Dress-protector	345,970	July 20	1674	433	36	313
Haskell, Luther D., Jr., Beverly, Mass. Thill-coupling	338,067	Mar. 16	1598	416	34	1236
Haskell, Royal, New Sharon, Iowa. Machine for hanging paper	344,374	June 29	2290	589	35	1452
Haskin, Uri, McDonald, Tenn., assignor of three-fifths to H. G. Brooks, Dunkirk, N. Y., S. B. Lowe and A. E. Tucker, Chattanooga, Tenn., and E. Nichols, Cincinnati, Ohio. Mechanical movement	347,294	Aug. 10	1131	303	36	681
Haskin, Uri, McDonald, Tenn., assignor of three-fifths to H. G. Brooks, Dunkirk, N. Y., S. B. Lowe and A. E. Tucker, Chattanooga, Tenn., and E. Nichols, Cincinnati, Ohio. Spike-machine	347,295	Aug. 10	1132	303	36	681
Haskins, Charles D., Brooklyn, N. Y., assignor to Western Electric Company, Chicago, Ill. Telegraph-sounder	352,317	Nov. 9	861	232	37	624
Haskins, Clark C., Chicago, Ill. Hanger for electric lamps	348,845	Sept. 7	407	110	36	1123
Haskins, Clothier P. (See Lewin, George W., assignor.)						
Haskins & Steiner. (See Steiner, Josef, assignor.)						
Haslam, William, assignor to J. J. Bisel, Philadelphia, Pa. Device for operating car-platform gates	340,309	Apr. 20	1743	444	35	324
Haslam, William, assignor to D. S. Creswell, Philadelphia, Pa. Furnace-grate	352,318	Nov. 9	862	232	37	624
Haslem, James, Jeffersonville, Ind. Plate-glass polisher	349,430	Sept. 21	1325	318	36	1288
Haslett, Charles, Butler, Pa. Odorizing gas	340,310	Apr. 20	1745	444	35	324
Hass, Theodore M., New York, N. Y. Album-stand	335,450	Feb. 2	504	131	34	532
Hassard, William R., Union, N. J. Coffin	335,451	Feb. 2	506	132	34	532
Hassard, William R., Union, N. J. Mold for making coffin-cases	340,877	Apr. 27	2532	666	35	472
Hassell, Richard L., Chicago, Ill. Scale-beam	338,266	Mar. 23	1869	494	34	1286
Hassellund, George W., New Castle, N. Y. Spring and nose-piece for eyeglasses	346,654	Aug. 3	258	71	36	511
Hassellund, George W., New Castle, N. Y. Eyeglasses	354,317	Dec. 14	987	262	37	1193
Hassler, Frank, *et al.* (See Wickizer, Samuel, assignor.)						
Hasson, Albert A. (See Adams and Hasson.)						
Hastings, Charles W., Brooklyn, N. Y. Electro-magnetic poise-adjuster	338,522	Mar. 23	2222	583	34	1349
Hastings & Co. (See Barnes, Hamlin, assignor.)						
Hastings, Edwin G., assignor of one-half to J. A. King, Nevada, Iowa. Ditching and tile-laying machine	340,505	Apr. 20	2015	517	35	374
Hastings, Henry N., Lynn, Mass. Telephonic apparatus	339,766	Apr. 13	983	243	35	180
Hastings, James L. (See Stewart and Hastings.)						
Hastings, Louis E., Manning, Iowa. Wagon-tongue support	349,714	Sept. 28	1623	419	36	1371
Hastings, Louis E., Manning, Iowa. Bracket	354,903	Dec. 28	1824	482	37	1366
Haswell, Theodore, Turner, Ill. Buckle	344,375	June 29	2291	590	35	1452
Hatch, Andrew J., San Francisco, Cal. Fruit-drier	335,351	Feb. 2	373	97	34	508
Hatch, Andrew J., San Francisco, Cal. Fruit-drier	339,767	Apr. 13	983	243	35	180
Hatch, George C., Bridgeport, Conn. Harvester-cutter	354,786	Dec. 21	1664	439	37	1324
Hatch, James L., Rochester, N. Y. Heel-stiffener machine	346,100	July 27	1849	477	36	355
Hatcher, Marshall J., Macon, Ga. Plow	344,656	June 29	2667	692	35	1523
Hatcher, William C. (See Montgomery and Hatcher.)						
Hatfield, Albert S. (See Schmidt, Giacomo, assignor.)						
Hatfield, Charles B., Rochester, N. Y. Button-fly-scalloping machine	347,105	Aug. 10	872	231	36	633
Hatfield, Charles B., assignor to Automatic Shoe Beader Company, Rochester, N. Y. Machine for beading shoe-uppers	334,376	Jan. 12	1251	337 338	34	239
Hatfield, Charles B., assignor of one-half to J. C. Heughes, H. Loewer, and A. S. McNab, Rochester, N. Y. Button-fly-scalloping machine	338,665	Mar. 23	2416	636 637	34	1381
Hatfield, Charles B., assignor to F. S. Upton and C. Hatfield, Rochester, N. Y. Machine for beading shoe-uppers	354,188	Dec. 14	801	213	37	1159
Hatfield, Charles B., assignor to F. S. Upton and C. Hatfield, Rochester, N. Y. Machine for treeing shoe-legs	354,189	Dec. 14	802	213	37	1160
Hatfield, Charles B., assignor to F. S. Upton and C. Hatfield, Rochester, N. Y. Turning-iron for shoe-uppers	354,190	Dec. 14	804	214	37	1160
Hatfield, Charlotte, *et al.* (See Hatfield, Charles B., assignor.)						
Hatfield, James. (See Tatum and Hatfield.)						
Hatfield, James W., *et al.* (See Beall, Frank, assignor.)						
Hatfield, John, *et al.* (See Beall, Frank, assignor.)						
Hatfield, Robert F., New York, N. Y. Gas-pressure regulator	334,773	Jan. 26	1804	480	34	356
Hatfield, Vermont C. (See Drayer and Hatfield.)						
Hatfield, William. (See Davis and Hatfield.)						
Hatfield, William B., assignor to J. Rodgers & Sons, (limited,) Sheffield, England. Knife	336,314	Feb. 16	1775	464	34	768
Hathaway, Charles, Cleveland, Ohio. Railway transfer-table	338,407	Mar. 23	2071	543	34	1321
Hathaway, Frederick T. (See Williams, Robert N., assignor.)						
Hathaway, George H. (See Butler and Hathaway.)						
Hathaway, Harlow D., Antwerp, N. Y. Reaper and mower	354,191	Dec. 14	805	214	37	1160
Hathaway, Thomas H., New Bedford, Mass. Filling apparatus	350,675	Oct. 12	816	221	37	156
Hathaway, William, Fall River, Mass. Take-up mechanism for looms	353,026	Nov. 23	1799	483	37	819
Hathaway, William A., North Kingstown, assignor to C. H. Atwood, Apponaug, R. I. Wrench	335,192	Feb. 2	150	38	34	468
Hatheway, Edwin E., Oriskany Falls, N. Y. Wagon-gear	348,846	Sept. 7	408	111	36	1123
Hathorn, George H., Chester, Me. Attachment for trip-hammers	354,192	Dec. 14	806	214 215	37	1161
Hathorne, George, New York, N. Y. Gas-burner	351,052	Oct. 19	1373	360	37	263
Hatters Supplies Company. (See Andrews, Charles S., assignor.)						
Haubner, Wilhelm, New York, N. Y. Upright-piano case	345,505	July 13	986	249	36	183
Haubtman, Leon F., New Orleans, La. Defecator for cane-juice	335,352	Feb. 2	375	97, 98	34	508
Hauck, Charles E., assignor of one-half to S. C. Brown, Pittsburg, Pa. Flat-iron	345,135	July 6	469	119	36	75
Hauck, Philip, Philadelphia, Pa. Paper-box top and bottom covering machine	351,595	Oct. 26	2172	562	37	416
Hauersperger, Peter, Urbana, Ill. Churn	340,115	Apr. 20	1446	366	35	270

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Haugh, Benjamin F. (See Brown and Haugh.)						
Haugh, Ketcham & Co. Iron Works. (See Brown and Haugh, assignors.)						
Haught, Richard F., and J. J. Fisher, Manchester, Ohio. Car-coupling	338,965	Mar. 30	2849	751	34	1466
Haupt, Carl F., Dresden, Saxony, Germany. Zither	352,648	Nov. 16	1285	346	37	712
Haupt, Lewis M., Philadelphia, Pa. Improving rivers, harbors, &c.	339,548	Apr. 6	645	156	35	116
Haus, T. Wilson, Meadville, Pa. Brake for children's carriages	352,689	Nov. 16	1344	363	37	724
Haus, T. Wilson, Meadville, Pa. Cigar-bundling machine	352,749	Nov. 16	1416	382	37	739
Hausburg, Otto E., New York, N. Y. Record-sheet for the dials of watchmen's time-clocks	344,479	June 29	2426	624	35	1476
Hauser, Jacob. (See Stätter and Hauser.)						
Hauserman, Louis J., Chicago, Ill. Animal-trap	336,998	Mar. 2	154	42	34	953
Hausman, John, Newark, N. J. Hammer-forming machine	342,009	May 18	1417	378	35	787
Haussmann, Hermann. (See Bartlett, Daniel W., assignor.)						
Haut, Gustav, Perham, Minn. Brick-machine	339,881	Apr. 13	1132	281, 282	35	208
Havanagh, Bernard, New York, N. Y. Water-closet	347,508	Aug. 17	1574	418	36	772
Havell, George, Newark, N. J. Knife-bolster	336,107	Feb. 16	1453	383	34	714
Haven, Charles M., Worcester, Mass. Device to be substituted for thresholds	342,829	June 1	77	19	35	1021
Haven, Curtis, Camden, N. J. Paper-holding attachment for type-writing and other machines	355,264	Dec. 28	2341	616	37	1466
Haven, Henry C., Boston, Mass. Nursing-bottle	351,596	Oct. 26	2173	562	37	416
Haven, W. D. (See Schumann, Francis, assignor.)						
Havens, Byron B. (See Hurlburt and Havens.)						
Havens, Byron B., Rushville, N. Y. Wash-board	341,236	May 4	374	103	35	574
Havens, Joseph G., Trenton, N. J. Roller-skate	345,781	July 20	1418	367	36	268
Havenstrite, David J. (See Hayward and Havenstrite.)						
Havey, Cornelius M., R. Black, New York, and T. G. Palmer, Schultzville, N. Y.; said Havey assignor to said Black and Palmer. Railway-signal	345,782	July 20	1419	367	36	268
Haviland, Joseph H., Jackson, Mich. Corset-clasp	352,820	Nov. 16	1511	407	37	755
Hawaiian Ramie Company. (See Lycan, Edward, assignor.)						
Hawes, Arnold C., Noroton, Conn. Duplex horseshoe	334,658	Jan. 19	1648	440	34	319
Hawes, Arnold C., Noroton, Conn. Duplex horseshoe	334,659	Jan. 19	1652	441	34	319
Hawes, Arnold C., Noroton, Conn. Duplex horseshoe	334,660	Jan. 19	1653	441	34	319
Hawes, Edward C., *et al.* (See Taft, Jerome C., assignor.)						
Hawes, Edward C., assignor to G. Hawes & Sons, Providence, R. I. Steam-trap	340,666	Apr. 27	2246	590, 591	35	421
Hawes, James B., North Tarrytown, N. Y. Chain-bolt	339,883	Apr. 13	1135	282	35	209
Hawes, Jethro M., *et al.* (See Taft, Jerome C., assignor.)						
Hawes, Rowland G., *et al.* (See Taft, Jerome C., assignor.)						
Hawes & Sons, George. (See Hawes, Edward C., assignor.)						
Hawes, William L. (See Sterner and Hawes.)						
Hawk, Jacob, Canton, Ohio. Grain-thrashing machine	335,753	Feb. 9	940	248	34	616
Hawk, Jacob, Canton, Ohio. Fan for grain-separators	336,567	Feb. 23	2120	556	34	837
Hawk, Jacob, Canton, Ohio. Grain weigher and register	342,600	May 25	2277	603	35	951
Hawken, Thomas, Salem, Mass. Insulator-block for electric conductors	346,475	Aug. 3	36	9	36	467
Hawkenson, Nels W., Litchfield, Minn. Car-coupling	334,863	Jan. 26	1917	510	34	376
Hawkes, Frederick W., *et al.* (See Gray, Henry F., assignor.)						
Hawkins, Andrew J., and S. H. Allen, Strawn, Tex. Axle-lubricator	339,768	Apr. 13	985	243	35	180
Hawkins, J. Wesley, assignor to Railway Speed Recorder Company, Kent, Ohio. Lifting-jack	343,312	June 8	784	196	35	1157
Hawkins, John T., Taunton, Mass. Sheet-delivery for printing-machines	335,698	Feb. 9	858	227	34	600
Hawkins, John T., Taunton, Mass. Sheet-delivery apparatus for printing-machines	336,108	Feb. 16	1454	383	34	714
Hawkins, John T., Taunton, Mass. Sheet-delivery apparatus for printing-machines	336,109	Feb. 16	1455	383	34	714
Hawkins, John T., Taunton, Mass. Chromatic-printing machine	338,666	Mar. 23	2418	637, 638	34	1382
Hawkins, John T., Taunton, Mass. Cylinder printing-machine	343,027	June 1	349	91	35	1070
Hawkins, John T., Taunton, Mass. Feed-guide for printing-presses	343,454	June 8	1015	252, 253	35	1198
Hawkins, John T., Taunton, Mass. Sheet-delivery for printing-machines	346,910	Aug. 10	598	158, 159	36	583
Hawkins, John T., Taunton, Mass. Oscillating-cylinder printing-machine	346,911	Aug. 10	595	159, 160	36	583
Hawkins, John T., Taunton, Mass. Gripper-motion for cylinder printing-machines	350,197	Oct. 5	137	40	37	29
Hawkins, Richard T., *et al.* (See Barrett, Sidney H., assignor.)						
Hawkins, Westel E., assignor to Simpson, Hall, Miller & Co., Wallingford, Conn. Machine for burnishing hollow articles	343,766	June 15	1457	364	35	1284
Hawks, Enos S., Cummington, Mass. Game-protector	346,748	Aug. 3	370	99	36	533
Hawks, Mark E., West Union, Iowa. Adjustable plate-holder for photographic cameras	346,546	Aug. 3	123	33	36	483
Hawks, Nelson C., San Francisco, Cal. Printer's case-stand and galley-tray	342,795	June 1	29	8	35	1011
Hawksley, Thomas, Brighton, county of Sussex, England. Dry system of disposing of sewage, &c.	334,436	Jan. 19	1337	362, 363	34	262
Hawksworth, David, Plattsmouth, Nebr. Device for destroying vegetation along railway-tracks	342,091	May 18	1550	414	35	812
Hawley, Alfred A., assignor to Merino Shoe Company, Kennebunk, Me. Making felt foot-wear	340,667	Apr. 27	2247	591	35	421
Hawley, Eli J., Manchester, Vt. Centrifugal pump	336,807	Feb. 23	2447	642	34	897
Hawley, Eli J., Manchester, Vt. Centrifugal pump	350,362	Oct. 5	348	100	37	70
Hawley, George F., Marquette, Nebr. Calculator	342,796	June 1	30	8	35	1012
Hawley, Harry H. (See Moses and Hawley.)						
Hawley, Henry, Culpeper, assignor of one-half to W. F. Latham, Culpeper County, Va. Window-blind	337,152	Mar. 2	359	94	34	992
Hawley, Lewis A. (See Gale and Hawley.)						
Hawley, Theodore, Fairfield, Conn. Joining pieces of rubber cloth	338,068	Mar. 16	1599	416	34	1226
Hawley, Theodore, Fairfield, Conn. Mechanism for joining pieces of rubber cloth	338,069	Mar. 16	1600	416, 417	34	1226
Hawley, Theodore, assignor of one-half to E. W. Harral, Fairfield, Conn. Lap-robe	353,939	Dec. 7	417	112, 113	37	1082
Hawley, William H., assignor to himself and F. G. Du Bois, New York, N. Y. Lathe for irregular forms	347,036	Aug. 10	765	203, 204	36	613
Hawlowetz, John, New York, N. Y. Machine for scraping the quills of feathers	347,486	Aug. 17	1417	377	36	742
Hawn, David, Swedesborough, N. J. Tug	337,263	Mar. 2	509	133	34	1020
Hawn, William, Knoxville, Tenn. Mail-bag	353,407	Nov. 30	2358	628	37	931
Haworth, George D., Decatur, Ill. Check-rower for corn-planters	351,176	Oct. 19	1541	403	37	295
Haworth, George D., Decatur, Ill. Corn-planter	351,177	Oct. 19	1542	404	37	295
Haworth, George D., Decatur, Ill. Check-rower	353,136	Nov. 23	1968	526	37	851

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Haworth, James W., Decatur, Ill. Metallic felty for wheels	334,949	Jan. 26	2023	539	34	396
Haworth, William M., Decatur, Ill. Ruler	350,305	Oct. 5	272	78	37	56
Haxtun Steam Heater Company. (See Pierce and Sandford, assignors.)						
Hay, Edward S., Lynn, Mass. Last-block fastening	341,478	May 11	708	190	35	643
Hay, Edward S., Lynn, Mass. Heel for boots or shoes	318,847	Sept. 7	409	111	36	1123
Hayden, George W., Boston, Mass. Laced boot or shoe	341,004	May 4	45	12	35	514
Hayden, Henry F., Washington, D. C. Purifier and feeder for boilers	334,774	Jan. 26	1806	480	34	357
Hayden, Isaac W., *et al.* (See Barker, Henry C., assignor.)						
Hayden, James T., assignor to R. T. Crane, Chicago, Ill. Pipe-wrench	335,193	Feb. 2	151	39	34	468
Hayden, Randolph, Haddam, Conn. Wire-cutter	349,496	Sept. 21	1319	342	36	1307
Hayden, William B., Columbus, Ohio. Wire-fastening device for metallic fence-posts	340,311	Apr. 20	1745	445	35	324
Haydu, George, Baltimore, Md., assignor to W. L. Deming, Salem, Ohio. Bilge-water ejector	333,753	Jan. 5	356	96	34	67
Haydu, George, Baltimore, Md., assignor of one-half to W. L. Deming, Salem, Ohio. Motor	338,468	Mar. 23	2072	543	34	1321
Haydu, George, Baltimore, Md., assignor to W. L. Deming, Salem, Ohio. Bilge-water ejector	349,497	Sept. 21	1321	343	36	1307
Haydu, George, assignor to B. B. and H. W. Friedenwald, Baltimore, Md. Fluid-ejector	353,219	Nov. 23	2083	557	37	874
Hayes, Benjamin W., assignor to Hayes & Titcomb, Haverhill, Mass. Low-cut or Oxford shoe	355,265	Dec. 28	2342	616	37	1466
Hayes, Charles W., Washington, D. C. Horseshoe	340,440	Apr. 20	1910	491, 492	35	356
Hayes, Daniel D., Oakland, Cal. Extension fire-ladder	345,686	July 20	1278	332	36	243
Hayes, Edwin, Kirklin, Ind. Stove-pipe holder	355,078	Dec. 28	2069	544	37	1412
Hayes, Edwin A., New York, N. Y. Asbestus lumber	339,769	Apr. 13	986	243, 244	35	180
Hayes, Elbert N., and V. A. Sauer, Houston, Tex. Treasure-box	345,392	July 13	701	177	36	132
Hayes, George, New York, N. Y. Blind-slat, &c	335,353	Feb. 2	376	98	34	509
Hayes, George, New York, N. Y. Slat for louvers and blinds	335,354	Feb. 2	377	98	34	509
Hayes, George, New York, N. Y. Hand-tool	345,687	July 20	1279	332	36	243
Hayes, George, New York, N. Y. Ventilating-skylight	345,688	July 20	1280	332	36	243
Hayes, George, New York, N. Y. Blind-slat and apparatus for operating the same	345,689	July 20	1281	332, 333	36	243
Hayes, George, New York, N. Y. Blind or other ventilating adjunct for buildings	345,690	July 20	1283	333	36	244
Hayes, George, New York, N. Y. Louver-blind	345,691	July 20	1284	333	36	244
Hayes, George, New York, N. Y. Ventilating-screen	345,692	July 20	1285	333	36	244
Hayes, George, New York, N. Y. Louver and blind	345,693	July 20	1286	334	36	244
Hayes, George, New York, N. Y. Louver and blind	345,694	July 20	1287	334	36	245
Hayes, George B., Ottawa, Kans. Tongue-support	348,466	Aug. 31	2831	761	36	1021
Hayes, George H., De Ruyter, N. Y. Clothes-drier	349,092	Sept. 14	768	196	36	1191
Hayes, George R., Cambridge, Md. Corn-planter	342,601	May 25	2279	603, 604	35	952
Hayes, Hammond V., Cambridge, Mass. Telephone apparatus for divers	353,940	Dec. 7	418	113	37	1083
Hayes, Henry, and B. P. Bonnell, Chicago, Ill. Steam-generator	352,319	Nov. 9	863	232	37	625
Hayes, Henry E., Brooklyn, N. Y. Combined blackboard and map-support	351,914	Nov. 2	272	74, 75	37	507
Hayes, James H., St. Paul, Minn. Car-coupling	346,101	July 27	1850	478	36	355
Hayes, Jasper N., Dallas City, Pa. Butter-box	354,415	Dec. 14	1108	298	37	1216
Hayes, John J. (See Fuller and Hayes.)						
Hayes, Joseph, Dover, N. H. Nut-lock	339,172	Apr. 6	74	22	35	16
Hayes, Miles T., assignor of two-thirds to A. F. Ransom and J. W. Wambold, Burlington, Wis. Horse-collar	339,098	Mar. 30	3060	810	34	1500
Hayes Manufacturing Company. (See Benbow, John, assignor.)						
Hayes, Senes E., Luthersburg, Pa. Door-sill	344,963	July 6	224	57	36	41
Hayes & Titcomb. (See Hayes, Benjamin W., assignor.)						
Hayes, William, Los Angeles, Cal. Railway-tricycle	354,318	Dec. 14	987	262	37	1193
Hayes, William N., *et al.* (See Penrod, John F., assignor.)						
Hayner, Charles, and J. P. Owens, Warren County, assignors of one-third to F. A. Bone, Lebanon, Ohio. Device for twisting wire for making and mending wire and picket fences	342,960	June 1	264	68	35	1054
Haynes, Archibald C., Philadelphia, Pa. Stool	341,748	May 11	1076	287	35	716
Haynes, Archimedes, Springfield, Ill. Fence-machine	352,540	Nov. 16	1131	305, 306	37	685
Haynes, Carlos B., North Adams, Mass. Canopy for carriages	334,584	Jan. 19	1544	413	34	300
Haynes, Gideon, Jr., Boston, Mass., and A. E. Schaaf, Buffalo, N. Y., assignors to Pope Manufacturing Company, Hartford, Conn. Anti-friction bearing	354,638	Dec. 21	1452	385	37	1284
Haynes, Martha F., Athol Centre, Mass. Uterine supporter	350,246	Oct. 5	204	59	37	43
Haynes, O. A. (See Cliff, Edward, assignor.)						
Hays, James M., assignor to J. S. Sullivan Saddle Tree Company, Jefferson City, Mo. Riding-saddle tree	354,135	Dec. 14	715	192	37	1144
Hays, William H. (See Kouold and Hays.)						
Hayward, A. W. (See Shaw, Benjamin D., assignor.)						
Hayward, Abner, Jr., New York, N. Y. Copy-holder	339,770	Apr. 13	987	244	35	180
Hayward, Adelaide M., Boston, Mass. Soap-dish	337,153	Mar. 2	360	94	34	993
Hayward, Calvin D., New York, N. Y. Window-sash fastener	335,127	Feb. 2	41	11	34	448
Hayward, Charles O., and D. J. Havenstrite, Newark, N. J. Game-board	345,450	July 13	884	220	36	165
Hayward, Emma L. (See Hayward, John H., assignor.)						
Hayward, Jacob L., Framingham, Mass., and T. C. Simonton, Jr., Paterson, N. J. Automatic cash-carrying device	343,455	June 8	1017	253, 254	35	1198
Hayward, John H., New York, assignor to E. L. Hayward, Port Richmond, N. Y. Grappling and dredging bucket	336,408	Feb. 16	1902	498	34	792
Hayward, Walter S., *et al.* (See Kenney, Thomas M., assignor.)						
Haywood Bros. & Co. (See Ellis, George A., assignor.)						
Hazard, Eugene F., and F. W. Greenhalgh, Peace Dale, R. I. Tension-regulating device for loom-shuttles	346,912	Aug. 10	798	160	36	583
Hazard, James S. (See Taylor, Edward E., assignor.)						
Hazard, Robert H., Washington, D. C. Stopper-fastener	346,280	July 27	2106	542	36	404
Hazeltine, Ezra T., Warren, Pa., and F. A. Weld, Stanton, Nebr. Book-folding machine	345,506	July 13	987	250	36	183
Hazelton, Benjamin F., and P. H. Mack, Bradford, Pa. Railway-track jack	345,844	July 20	1503	389	36	282
Hazelton, Milton W. (See Goulding, Henry C., assignor.)						
Hazen, James H., Waterbury, Conn. Burnishing-machine	343,710	June 15	1369	346	35	1271
Hazlet, John D., and W. R. Bennett, Meadville, Pa. Apparatus for the preservation of beer	343,125	June 1	597	128	35	1088
Hazzard, William H., Easton, assignor of one-half to W. A. Clark, Philadelphia, Pa. Rack for holding and exhibiting wall-paper, shades, &c	354,058	Dec. 7	590	160, 161	37	1113
Heacock, Joel, Brighton, Iowa. Roller-skate	338,070	Mar. 16	1602	417	34	1237
Head, Charles, Quincy, Ill. Transfer-bevel	336,409	Feb. 16	1904	498	34	793

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drlg.	Official Gazette. Vol.	Official Gazette. Page.
Head, Charles B., and J. A. Kaylor, Allegheny City, Pa. Gas-furnace	339,648	Apr. 13	815	200, 201	35	150
Head, William F., *et al.* (See Crandall, Henry B., assignor.)						
Headen, John S., Pleasant Hill, Mo. Washing-machine	338,840	Mar. 30	2681	706	34	1435
Headen, Minnis, Christiansburg, Va. Foot-power hammer	350,363	Oct. 5	349	100	37	71
Headley, Elwood, New York, N. Y. Fare-receiver	336,410	Feb. 16	1904	499	34	733
Headly, Charles B., Philadelphia, Pa. Compound metal bar or plate	344,831	July 6	39	.....	36	9
Heagy, Theodore J., *et al.* (See Sweney, Charles E., assignor.)						
Heal, Sidney. (See Evans, Daniel W., assignor.)						
Healey & Co. (See Guiet, Michel, assignor.)						
Healey, John H., Voluntown, Conn. Bicycle	341,237	May 4	375	103	35	574
Healy, Clarence L., Brooklyn, assignor to Commercial Telegram Company, New York, N. Y. Transmitter for printing-telegraphs	341,654	May 11	947	251	35	690
Healy, Clarence L., Brooklyn, assignor to Commercial Telegram Company, New York, N. Y. Printing-telegraph	341,655	May 11	948	251	35	690
Healy, Clarence L., Brooklyn, assignor to Commercial Telegram Company, New York, N. Y. Printing-telegraph	341,656	May 11	950	254	35	691
Healy, John T., Attleborough, Mass. Fastening device for securing watches to chains	341,908	May 18	1295	346	35	765
Healy, John T., Attleborough, Mass. Combined watch-chain swivel and watch-protector	345,783	July 20	1420	368	36	268
Healy, Patrick J., *et al.* (See Post, Charles N., assignor.)						
Heap, William, Owen Sound, Ontario, Canada. Earth-closet	345,053	July 6	358	90	36	65
Heap, William, Owen Sound, Ontario, Canada. Earth-closet	347,037	Aug. 10	766	204	36	614
Hearan, James C., assignor of one-half to J. M. Cavanagh, Brooklyn, N. Y. Machine for shaping counter-stiffeners for boots or shoes	348,903	Sept. 7	496	131	36	1139
Heard, Henry and H. C., 24 Newport Road, Cardiff, county of Glamorgan, England. Wire-lacing	352,541	Nov. 16	1133	306	37	685
Heard, Herbert C. (See Heard, Henry and H. C.)						
Hearle, Charles C., Montreal, Quebec, Canada. Spring	338,267	Mar. 23	1870	491	34	1287
Heartwell, Oscar F., Jr., Joliet, Ill. Broadcast seed-sower	337,832	Mar. 16	1279	331	34	1169
Heath, Elroy N., Boston, Mass. Calendar	344,376	June 29	2292	590, 591	35	1452
Heath, Elroy N., Wakefield, Mass. Letter-file	351,959	Nov. 2	304	99	37	526
Heath, George S., and A. F. Champlin, Hartford, Conn. Stem winding and setting watch	348,009	Aug. 24	2178	580	36	891
Heath, Henry, assignor to Fisk, Clark & Flagg, New York, N. Y. Making sailor-knot scarfs	335,071	Jan. 26	2198	584	34	426
Heath, Henry, assignor to Fisk, Clark & Flagg, New York, N. Y. Sailor-knot scarf	345,897	July 20	1578	407	36	296
Heath, Henry, assignor to Fisk, Clark & Flagg, New York, N. Y. Sailor-knot scarf	346,041	July 20	1778	457, 458	36	331
Heath, Henry R., *et al.* (See Palmer, Noyes F., assignor.)						
Heath, Henry R., Brooklyn, assignor of two-thirds to C. S. Goodwin, New York, and N. F. Palmer, Jamaica, N. Y. Button	338,409	Mar. 23	2073	543	34	1322
Heath, James, Richmond, Va. Tooth-brush	350,306	Oct. 5	273	78	37	56
Heath, John, Janesville, Wis. Filtering device for feed-water pipes	337,154	Mar. 2	361	94	34	993
Heath, John E., and W. Fredricks, New York, N. Y. Combined watch-charm and cigar-cutter	340,212	Apr. 20	1600	405	35	298
Heaton, Daniel, Greenfield, Iowa. Bankers' note-case	339,173	Apr. 6	75	22, 23	35	16
Heavner, Andrew J., and R. Thornton, Pittsfield, Ill. Wheel-cultivator	337,400	Mar. 9	696	182	34	1061
Hebbard, William H., *et al.* (See Burk, Frank W., assignor.)						
Heberling, George P., assignor to J. Thompson & Sons, (limited,) Beloit, Wis. Cultivator	351,767	Nov. 2	54	14	37	468
Heberling, Warren. (See Heberling, William L., assignor.)						
Heberling, William L., Bath, assignor of one-fourth to W. Heberling, Havana, Ill. Sewing-machine	343,992	June 22	1746	449	35	1347
Heberling, William L., Bath, assignor of one-fourth to W. Heberling, Havana, Ill. Sewing-machine shuttle	346,281	July 27	2108	542	36	404
Hébert, Antoine C., Chicago, Ill. Car-axle box	347,599	Aug. 17	1576	418, 419	36	772
Hébert, Hector, Duluth, Minn. Wagon-brake	353,559	Nov. 30	2580	690	37	974
Hebling, Michael, Allegheny City, Pa. Machine for cutting elliptical shapes	342,357	May 25	1934	510, 511	35	890
Heckel, Frederick W., Jr., and Z. Shade, Columbia, Pa. Pattern for molding stove-covers	344,377	June 29	2294	591	35	1452
Hecking, Max, Dortmund, Prussia, Germany. Drier	343,813	June 15	1512	380, 381	35	1295
Hedden, Aaron C., Ithaca, N. Y. Corn-shock compressor	343,814	June 15	1513	381	35	1295
Hedden, Charles I. (See Teed, William P., assignor.)						
Hedden, Charles R., *et al.* (See Tucker, Charles A., assignor.)						
Hedge, John F., Jr., Providence, R. I., assignor to Synchronous Time Company, Boston, Mass. Secondary electric clock	352,320	Nov. 9	864	233	37	625
Hedges, Charles, Grinnell, Iowa. Ice-cream freezer	347,600	Aug. 17	1577	419	36	773
Hedges, John H. (See Coon, Hedges, and Bernard.)						
Hedges, Killingworth W., Westminster, county of Middlesex, England. Speed-indicator	338,966	Mar. 30	2850	752	34	1466
Heebner, David S., *et al.* (See Heebner, Isaac D., assignor.)						
Heebner, David S., *et al.* (See Heebner, William D., assignor.)						
Heebner, Isaac D., *et al.* (See Heebner, William D., assignor.)						
Heebner, Isaac D., assignor of two-thirds to D. S. and W. D. Heebner, Lansdale, Pa. Thrashing-machine	345,695	July 20	1488	334	36	245
Heebner, William D., *et al.* (See Heebner, Isaac D., assignor.)						
Heebner, William D., assignor of two-thirds to D. S. and I. D. Heebner, Lansdale, Pa. Thrashing-machine	339,174	Apr. 6	77	23	35	17
Heer, David, Philadelphia, Pa. Machine for covering rings with fibrous strands	344,273	June 22	2144	550	35	1418
Heffernan, Edward F., Toronto, Ontario, Canada, assignor to Keystone Watch Case Company. Pendant-stem for watches	345,055	July 6	330	91	36	66
Hefft, Christopher, Pekin, Ill. Agricultural boiler	340,576	Apr. 27	2116	515	35	400
Hege, Constantine A., Salem, N. C. Cotton-press	335,194	Feb. 2	152	39	34	468
Hegeman, W. A. Ogden. (See Monsanto, Mauricio M., assignor.)						
Hegenberger, George and W., Davenport, Iowa. Sleigh-runner	339,175	Apr. 6	78	23	35	17
Hegenberger, William. (See Hegenberger, George and W.)						
Hegener, Rudolph, South Chicago, Ill. Cutter-head	335,582	Feb. 9	692	183, 184	34	571
Heibecker, John B., New York, N. Y. Rowing apparatus	355,266	Dec. 28	2463	617	37	1466
Heidacker, Henry, assignor of one-half to L. Henne, Metropolis City, Ill. Colter-fastening	340,506	Apr. 20	2 47	547	35	375
Heidmeyer, Conrad J., Allegheny, Pa. Rope or wire cable ladder	342,204	May 18	1681	448	35	837
Heidorf, Joseph, Saratoga Springs, N. Y. Sled-propeller	342,257	May 18	1758	467	35	851
Heidt, Allen P., New York, N. Y. Fire shovel and tongs	349,394	Sept. 21	1178	305	36	1279
Heilbrun, Alexander, Cincinnati, Ohio. Hydrocarbon incandescent light	352,821	Nov. 16	1512	407	37	756

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Heiles, Gustav. (See Prahar, Louis B., assignor.)						
Heilman, Frederick W., assignor to J. Lagowitz, Newark, N. J. Metal hub for locks	337,494	Mar. 9	850	215	34	108
Heim, Frederick, assignor of one-half to W. Robbins, Philadelphia, Pa. Hose-bridge	336,482	Feb. 16	2004	525	34	810
Heim, Frederick, assignor of one-half to W. Robbins, Philadelphia, Pa. Hose-bridge	352,822	Nov. 16	1513	407	37	756
Heimann, Salomon, New York, N. Y. Treating peat	337,495	Mar. 9	851	.....	34	1085
Heine, August, Silver Creek, N. Y. Flour-bolt	346,282	July 27	2110	543	36	404
Heiné, Charles W., New York, N. Y. Hydrocarbon-burner	353,027	Nov. 23	1800	483 / 484	37	819
Heine, Fredwick, assignor to E. Berninghaus, Cincinnati, Ohio. Barber's chair	352,242	Nov. 9	759	203	37	605
Heinebach, Herman. (See Hochstadt, Wenzel, and Heinebach.)						
Heinemann, Arnold H., Chicago, Ill. Table and desk	333,626	Jan. 5	168	45	34	33
Heinemann, Gustave. (See Stierle, Charles, assignor.)						
Heinfelden, Curt. (See Wagner, Michael, assignor.)						
Heinig, Frederick E., Louisville, Ky. Flue-cap and ventilator	343,456	June 8	1022	254	35	1199
Heinig, Frederick E., Louisville, Ky. Tobacco-bag fastener	353,748	Dec. 7	134	37	37	1031
Heinig, Frederick E., Louisville, Ky. Flue-cap	354,193	Dec. 14	810	215	37	1161
Heinle, Robert, Altoona, Pa. Continuous rolling-mill	344,104	June 22	1911	489	35	1376
Heinold, Fredrick J. (See Kempe and Heinold.)						
Heins, Charles L. (See Lieb and Heins.)						
Heinss, Christian F., Covington, Ky. Folding convertible crib	341,238	May 4	376	103	35	574
Heintzelman, Taylor W., assignor of one-half to W. McCrory, Minneapolis, Minn. Locomotive grate-bar	347,601	Aug. 17	1578	419	36	773
Heinze, Louis, Lynn, Mass. Holder for incandescent electric lamps	343,333	June 8	785	196	35	1158
Heise, August J., Baltimore, Md. Mortising-machine	338,967	Mar. 30	2851	752	34	1466
Heiser, William, Buffalo, N. Y. Device for making nuts	335,195	Feb. 2	155	40	34	468
Heiser, William, Buffalo, N. Y. Beer-cask	337,401	Mar. 9	698	182	34	1061
Heisey, Augustus H. (See Miller, John E., assignor.)						
Heisey, Augustus H., Pittsburg, Pa. Glass vase	354,416	Dec. 14	1109	298	37	1216
Heiss, Charles E., assignor of one-half to J. N. Raymond, Chicago, Ill. Reel for coiling lead pipe	334,585	Jan. 19	1545	413	34	300
Heiss, Charles E., assignor of one-half to J. N. Raymond, Chicago, Ill. Hydraulic press	346,913	Aug. 10	598	161	36	584
Heissler, Nicholas C., St. Petersburg, Russia. Telephone system	351,597	Oct. 26	2174	562 / 563	37	416
Heitmann, Edward, Milwaukee, Wis. Steam-boiler	341,749	May 11	1077	287	35	716
Heitmann, Heinrich P., Ableman, Wis. Heating-stove	333,856	Jan. 5	492	133	34	92
Heizmann, C. Raymond, assignor to Penn Hardware Company, Reading, Pa. Cutting-instrument	342,258	May 18	1759	467	35	851
Held, Jacob, Howell, Mich. Wire-twisting machine	344,274	June 22	2145	550	35	1481
Helfrich, Adam, Indianapolis, Ind. Dump-wagon	344,378	June 29	2295	591	35	1453
Helfker, Merlin B., Farmington, Mich. Belt coiler for thrashing-machines	346,042	July 20	1779	458	36	331
Helios Actiengesellschaft für Elektrisches Licht und Telegraphenbau. (See Coerper, Carl, assignor.)						
Hellem, William, assignor of one-half to P. and D. Barnes, Allentown, N. Y. Clamp for sucker-rods	334,226	Jan. 12	1043	277	34	202
Hellem, William, assignor of one-half to P. and D. Barnes, Allentown, N. Y. Pipe-wrench	334,227	Jan. 12	1044	277	34	202
Heller, Calvin L. (See Heller, Simon S. and C. L.)						
Heller, Emanuel I., Iglau, Austria-Hungary. Artificial millstone or burr	344,902	July 6	151	38	36	28
Heller, Simon S. and C. L., Boulder, Colo. Gold-washing apparatus	341,750	May 11	1078	287	35	717
Hellerstedt, Peter F., Morrison, Ill. Buggy-spring	338,071	Mar. 16	1603	417	34	1227
Hellings, Andrew J., and J. Everett, Philadelphia, Pa. Meat-cutting machine	343,314	June 8	786	197	35	1158
Hellings, John, Philadelphia, Pa. Cable-gripping device	353,941	Dec. 7	420	113 / 114	37	1083
Helliwell, Robert B., Philadelphia, Pa. Neck-wear retainer	333,754	Jan. 5	357	96	34	67
Helliwell, Thomas W., Brighouse, county of York, England. Glazed roof	355,079	Dec. 28	2070	544	37	1412
Hellmuth, Frederick C., assignor to himself and J. Munz, Jr., Brooklyn, N. Y. Carpet-fastener	334,170	Jan. 12	949	257	34	183
Helm, Charles, and J. Nickenich, Toledo, Ohio. Land-roller	337,264	Mar. 2	510	133 / 134	34	1020
Helm, J. Henry, Allegheny, Pa. Gas-regulator	354,017	Dec. 7	533	145	37	1103
Helm, Nathan B. (See Ferris and Helm.)						
Helm, Nathan B. (See Hunt, Helm, and Ferris.)						
Helm, Richard, St. Louis, Mo. Baby-carriage	338,171	Mar. 16	1741	455	34	1254
Helme, Jeremiah E., *et al.* (See Logan, Thomas H., assignor.)						
Helmer, Louis. (See Lentz, John G., assignor.)						
Helms, Charles H., Poughkeepsie, N. Y., assignor to G. H. P. Flagg, trustee, Boston, Mass. Seam-trimming machine	345,303	July 13	703	177	36	132
Helms, Francis M., Veedersburg, Ind. Cultivator	335,222	Feb. 2	198	52	34	475
Helms, Lewis E., *et al.* (See Helms, William M., assignor.)						
Helms, William M., assignor of two-thirds to L. E. Helms and W. S. Cunningham, Steubenville, Ohio. Tire-upsetter	337,265	Mar. 2	511	134	34	1021
Helsley, J. Ham. (See Peay and Helsley.)						
Heltzel, Peter F., Fond du Lac, Wis. Hydraulic motor	348,010	Aug. 24	2180	581	36	891
Helwig, Arthur, assignor to J. Hoffinger, London, county of Middlesex, England. Machine for making button-holes	350,364	Oct. 5	351	101 / 102	37	71
Hembert, Felix, and E. Henry, Paris, France. Process of and apparatus for producing gas for lighting and heating purposes	339,409	Apr. 6	421	104	35	79
Hemenway, Malvina N., Mexico, N. Y. Dust-pan	354,600	Dec. 21	1390	368	37	1273
Hemingray, Robert, Covington, Ky. Fastener for jar-tops	342,602	May 25	2283	604	35	952
Hemingway, Frederick B., assignor to Hemingway & Kelley, Clinton, Iowa. Folding woven-wire cot and mattress	336,110	Feb. 16	1456	384	34	714
Hemingway & Kelley. (See Hemingway, Frederick B., assignor.)						
Hemmengway & Kelly. (See Kelly, Joseph A., assignor.)						
Hemmenway, Eugene S., Boston, Mass. Bed-lounge	334,528	Jan. 19	1466	393	34	285
Hempel, Walther, Dresden, Saxony, Germany. Thermometer for culinary purposes	339,176	Apr. 6	79	24	35	17
Hemphill, James, Pittsburg, Pa. Expanding joint for tubes	337,580	Mar. 9	957	245 / 246	34	1105
Hemphill, James, Pittsburg, Pa. Coupling pipes	351,263	Oct. 19	1648	433	37	315
Hemphill, James, and W. Garret, Pittsburg, Pa. Rolling-mill plant	352,750	Nov. 16	1418	383	37	739
Hempsted, Samuel W., Columbus, Ohio. Oscillating steam-engine	346,996	Aug. 10	701	186	36	603
Hemry, Franklin L., Comly, Ohio. Harness	343,583	June 15	1197	301	35	1238
Hench, Samuel N., and W. A. Dromgold, York, Pa. Cultivator	348,208	Aug. 31	2476	665 / 666	36	952
Henderson, A. C. (See Kline, George K., assignor.)						
Henderson, Albert H. (See Ries, Elias E., assignor.)						
Henderson, Alexander L., London, England. Apparatus for coating glass or other plates with liquefied gelatine	344,043	June 22	1823	468	35	1359

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Henderson, Alexander T. (See Allender and Henderson.)						
Henderson, Charles C., Warren, Pa. Corn and seed planter	352,186	Nov. 9	689	184	37	592
Henderson, Charles G., Jr., *et al.* (See Shank, Charles A., assignor.)						
Henderson, Francis G. L., Newton, Mass. Combined boot and glove buttoner	339,055	Mar. 30	2993	792	34	1490
Henderson, George A., Decatur, Ill. Water-gage	338,737	Mar. 30	2541	670	34	1409
Henderson, George W. (See Conger and Henderson.)						
Henderson, Harry D., Earlville, N. Y., assignor of two-thirds to R. T. Van Vaulkenburg, Manchester, Mich., and A. C. Ackley, Earlville, N. Y. Fire-kindler	347,176	Aug. 10	969	259	36	652
Henderson, Henry, Halsted, Minn. Ditching and grading machine	354,136	Dec. 14	716	192 193	37	1144
Henderson, James, Bellefonte, Pa. Dephosphorizing iron by means of fluorine	347,349	Aug. 17	1218	.....	36	706
Henderson, James, Bellefonte, Pa. Manufacturing steel	350,587	Oct. 12	685	.....	37	131
Henderson, Jesse G., Grizzly Flat, Cal. Truss	349,498	Sept. 21	1321	343	36	1307
Henderson, John, Jr., Waterbury, Conn. Tumbling-barrel	348,011	Aug. 24	2181	581	36	891
Henderson, John T. (See Field, Homer H., assignor.)						
Henderson, John W., Philadelphia, Pa. Mechanism for operating long-distance switches, signals, &c.	342,439	May 25	2048	540	35	909
Henderson, Mary A., Clinton, Mo. Coffee-pot	346,914	Aug. 10	600	161	36	584
Henderson, Norman M., Broxburn, county of Linlithgow, Scotland. Apparatus for distilling or refining mineral oils	340,878	Apr. 27	2533	666 667	35	472
Henderson, Norman M., Broxburn, county of Linlithgow, Scotland. Apparatus for cooling oil to extract paraffine, &c.	348,904	Sept. 7	497	132	36	1139
Henderson, Robert W., Newark, N. J. Plaiting-machine	336,999	Mar. 2	155	42	34	953
Henderson, Thomas A., assignor to himself and A. P. Kuehn, Natchez, Miss. Pencil-sharpener	353,061	Nov. 23	1861	503	37	829
Henderson, Vincent H. (See Forbes, Alston J., assignor.)						
Henderson, William M., Morton, Pa. Steam-engine	339,292	Apr. 6	253	63, 64	35	47
Henderson, William M., Morton, Pa. Steam-engine	347,874	Aug. 24	1986	526	36	855
Hendey Machine Company. (See O'Neill, James F., assignor.)						
Hendey, Thomas C., Torrington, Conn. Calipers	346,915	Aug. 10	601	161	36	584
Hendrick, Augustus D., *et al.* (See Whiting, Henry B., assignor.)						
Hendrick, Eli E., Carbondale, Pa. Machine for the manufacture of ice and for refrigerating purposes	336,233	Feb. 16	1655	432 433	34	747
Hendrick, Eli E., Carbondale, Pa. Reducing temperature	336,234	Feb. 16	1662	433	34	748
Hendrick, Eli E., Carbondale, Pa. Machine for cooling liquids and other articles, commonly called "ice-machines"	336,235	Feb. 16	1666	433 434	34	748
Hendrick, Eli E., Carbondale, Pa. Reducing temperature. (Reissue)	10,725	May 18	1855	491	35	868
Hendrick, George W., *et al.* (See Whiting, Henry B., assignor.)						
Hendrick, James P., Flemingsburg, Ky. Sash-holder	354,550	Dec. 21	1311	348	37	1259
Hendricks, Edward A., Carpentersville, Ill. Platform-spring for vehicles	345,898	July 20	1579	407	36	296
Hendrickson, Andrew. (See Dicket and Hendrickson.)						
Hendrickson, Robert T., Brooklyn, N. Y. Handle attachment for planes	337,581	Mar. 9	959	246	34	1105
Hendry, Charles J., assignor to Leduc Tule Improvement Company, San Francisco, Cal. Life-raft	343,628	June 1	352	91	35	1071
Hendryx, Andrew B., New Haven, Conn. Bird-cage	346,283	July 27	2112	543	36	405
Hendryx, Andrew B., New Haven, Conn. Bird-cage screen	348,012	Aug. 24	2183	581	36	892
Hendryx, Andrew B., New Haven, Conn. Fishing-reel	351,598	Oct. 26	2178	563	37	417
Hendryx, Samuel V., Farmington, assignor of one-half to A. Finkelson, Northfield, Minn. Display-rack for parasols, &c.	349,938	Sept. 28	1923	497	36	1430
Hendy, Joshua. (See Hill, Frank A., assignor.)						
Hengesbach, Frank, assignor to himself, J. W. and R. C. Penfield, Willoughby, Ohio. Roofing-tile as an article of manufacture	340,668	Apr. 27	2248	591	35	421
Hengesbach, Frank, assignor to himself, J. W. and R. C. Penfield, Willoughby, Ohio. Coloring tiles or equivalent porous pottery materials	340,669	Apr. 27	2249	592	35	421
Henius, Max W., Bridgeport, Conn. Corset-trimming	346,476	Aug. 3	36	9	36	467
Henke, Henry, Houston, Tex. Funnel for forcing molasses, &c	335,452	Feb. 2	506	132	34	532
Henkel, George, Springfield, Ohio. Combined pool-rack and ball-spotter	338,735	Mar. 30	2536	670	34	1408
Henkle, Leonard, Rochester, N. Y. Lamp	348,969	Sept. 14	589	156	36	1161
Henkle, Leonard, Rochester, N. Y. Wick-raiser	348,970	Sept. 14	590	156	36	1161
Henley, James M. (See Thomas, Hugh, assignor.)						
Henley, Micajah C., Richmond, Ind. Roller-skate	338,736	Mar. 30	2538	670	34	1409
Henley, Micajah C., Richmond, Ind. Tension device for fence-machines	342,010	May 18	1419	379	35	787
Henley, Micajah C., Richmond, Ind. Fence-machine	346,749	Aug. 3	370	100	36	533
Henley, Micajah C., and H. Farmer, Richmond, Ind. Tension device for fence-machines	338,738	Mar. 30	2541	671	34	1409
Henne, Louis. (See Heidacker, Henry, assignor.)						
Henneberg, Hugo, and R. O. Lorenz, Vienna, Austria-Hungary. Regulator for electric arc lamps	353,305	Nov. 30	2206	590 591	37	904
Hennebohle, Frank, South Chicago, Ill. Metallic packing for stuffing-boxes	339,771	Apr. 13	989	244	35	181
Hennebohle, Frank, South Chicago, Ill. Valve	345,056	July 6	362	91	36	66
Hennessy, Thomas B., Chicago, assignor to S. Dingee, Wilmette, Ill. Extension-table	335,453	Feb. 2	507	132	34	532
Hennessey, William A., Springfield, Mass. Boiler-front	353,306	Nov. 30	2208	591	37	904
Henney, John W., Freeport, Ill. Vehicle-spring	344,105	June 22	1913	490	35	1376
Hennig, Albert F. B., Denver, Colo. Street-lamp	339,684	Apr. 13	1136	282	35	209
Hennig, Henry, Paterson, N. J. Spark-arrester	335,923	Feb. 9	1186	315	34	660
Henning, George C., Washington, D. C. Label	334,437	Jan. 19	1339	363	34	263
Henning, Julius, Minneapolis, Minn. Roofing-machine	348,558	Sept. 7	22	6	36	1052
Henrie, George V., assignor of one-half to M. V. B. Watson, San Francisco, Cal. Fruit-jar fastening	335,754	Feb. 9	941	248	34	616
Henry, A. C., *et al.* (See Rogers, John A., assignor.)						
Henry, Allen, *et al.* (See Fisher, Anson F., assignor.)						
Henry, Allen, *et al.* (See Pulliam, William J., assignor.)						
Henry, Edmond. (See Hembert and Henry.)						
Henry, Edwin S., *et al.* (See Whelan, Thomas P., assignor.)						
Henry, Elias C. (See Chancellor and Henry.)						
Henry, Frank J., *et al.* (See Harty, William, assignor.)						
Henry, George W. (See Miller, Thomas J., assignor.)						
Henry, John, Louisville, Ky. Tricycle	351,768	Nov. 2	56	15	37	469
Henry, John, assignor to himself, W. T. Sheppard, and J. E. Bellamy, Ardoch, Dak. Ter. Band-cutter	335,813	Feb. 9	1027	271	34	632
Henry, John C., Kansas City, Mo. Speed-changing mechanism	345,057	July 6	363	91, 92	36	66
Henry, John C., Kansas City, Mo. Electric railway	345,845	July 20	1504	390 391	36	282
Henry, Philip B. (See Ingersoll and Henry.)						
Henry, Robert G., Waterbury, Conn. Blanket or similar article	351,031	Oct. 19	1343	353	37	258
Henry, Theodore W., Sanford, Fla. Key-ring	338,268	Mar. 23	1871	492	34	1287

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Henry, William L., Atlantic, Pa. Potato-digger	344,106	June 22	1914	490	35	1376
Henschel, Charles B., Milwaukee, Wis. Cigar-box label	355,015	Dec. 28	1980	521	37	1395
Hensel, Colladay & Co. (See Valetton, Louis D., assignor.)						
Hensel, George S., *et al.* (See Forrest, William W., assignor.)						
Hensley, Charles S., assignor of one-half to W. Hensley, Lawrence, Ind. Self-binding reaping-machine	341,657	May 11	951	251, 252, 253	35	691
Hensley, Frank A., San Antonio, Tex. Steam vacuum-pump	339,649	Apr. 13	818	201	35	150
Hensley, Joseph D., Rogers, Ark. Stump-extractor	348,209	Aug. 31	2478	666	36	953
Hensley, William. (See Hensley, Charles S., assignor.)						
Hentschke, Herman, and J. Brown, Council Bluffs, Iowa. Bottle-stopper	351,769	Nov. 2	57	15	37	469
Henze, Julius, Jr., assignor to himself and A. Türpe, Dresden, Saxony, Germany. Car-coupling	338,968	Mar. 30	2852	752, 753	34	1467
Henzel, Charles, New York, N. Y. Electric vibrating call or signal bell	351,599	Oct. 26	2180	563	37	417
Henzel, Charles, and W. Wood, New York, N. Y. Electrical door-opener	351,600	Oct. 26	2181	563, 564	37	417
Heon, George, assignor of one-half to R. O. and J. B. Wood, Manchester, N. H. Draft-hook for vehicles	353,942	Dec. 7	422	114	37	1083
Hepburn, Lewis L., Ilion, N. Y., assignor to Marlin Fire Arms Company, New Haven, Conn. Magazine-gun	354,059	Dec. 7	591	161	37	1114
Hepler, Benjamin F. (See Dimon, Frank S., assignor.)						
Hepner, Arnold, New York, N. Y. Combined shirt and lacing	352,321	Nov. 9	865	233	37	625
Hepworth, Fred A., and L. Santany, Aurora, Ill. Soil-pulverizer	353,491	Nov. 30	2473	661	37	953
Herbert, Michael E., St. Joseph, Mo. Steam-boiler	336,315	Feb. 16	1776	465	34	768
Herbertson, William H., Brownsville, Pa. Car-axle lubricator	337,327	Mar. 2	601	158	34	1037
Herboldshimer, John B., Chicago, assignor to W. D. Gibson and C. P. Parrish, Cook County, Ill. Oil-can	353,417	Nov. 30	2368	631	37	934
Herbrand Company. (See Burdsall, Stephen, assignor.)						
Herd, William, Harrison, N. J. Feed-water heater	354,194	Dec. 14	811	215	37	1161
Herden, Henry, Corning, N. Y. Centrifugal speed-indicator	338,841	Mar. 30	2682	706	34	1436
Herendeen, Almanzon, Putnam, Conn. Chimney-top	344,832	July 6	40	10	36	9
Hering, Carl, Philadelphia, Pa. Constant potential regulator	350,676	Oct. 12	817	222	37	156
Hering, Carl, assignor of one-half to C. H. Banes, Philadelphia, Pa. Dynamo-electric machine	335,355	Feb. 2	379	98	34	509
Hering, Carl, assignor of one-half to C. H. Banes, Philadelphia, Pa. Unipolar dynamo-electric machine	339,772	Apr. 13	989	244, 245	35	181
Hering, Carl, assignor of one-half to C. H. Banes, Philadelphia, Pa. Compensating resistance for dynamo-electric machines	339,773	Apr. 13	992	245	35	181
Herington, Byron L., Normal, Ill. Refrigerator	343,536	June 8	1117	282	35	1217
Herlehy, William, J. O. and F. McGinnis, Pittsburg, Pa. Natural-gas carburetor	339,177	Apr. 6	80	24	35	17
Herline, Edward, Jr., Hoboken, N. J. Attachment for tape-measures	338,410	Mar. 23	2073	543	34	1322
Herman, Addison M., assignor of one-half to S. A. Hart, Newtonia, Mo. Kitchen-safe	345,784	July 20	1421	368	36	268
Herman, John C., assignor of one-half to F. Krein, Jr., St. Louis, Mo. Manufacture of vise-heads	352,322	Nov. 9	866	233	37	625
Herman, John M., Mallard, Iowa. Expanding pulley	334,377	Jan. 12	1252	338	34	240
Hermann, John H., Highland, Ill. Combined can rosining and soldering machine	339,774	Apr. 13	993	245	35	182
Hermann, Samuel, Cincinnati, Ohio. Trunk	337,328	Mar. 2	602	158	34	1037
Herpick, George H. (See Dernell, Charles F., assignor.)						
Herrburger, Joseph, Paris, France. Damper for upright pianos	350,625	Oct. 12	745	204	37	143
Herreshoff, John B. F., assignor to himself, G. H., and W. H. Nichols, Brooklyn, N. Y. Sulphuric-acid tower	335,699	Feb. 9	861	228	34	601
Herreshoff, John B. F., assignor to himself and G. H. and W. H. Nichols, Brooklyn, N. Y. Fire-door for furnaces	342,511	May 25	2164	573	35	929
Herrick, Charles R., and D. W. Billings, Fenwick, Mich. Life-boat	349,499	Sept. 21	1392	343	36	1307
Herrick, Frank J., assignor to H. C. Noble, New Britain, Conn. Heel and sole protector	344,526	June 29	2592	645	35	1489
Herrick, Frank J., assignor to H. C. Noble, New Britain, Conn. Heel-protector	351,915	Nov. 2	274	75	37	507
Herrick, James H., assignor of one-half to W. M. Gartshore, London, Ontario, Canada. Stove-door	333,857	Jan. 5	493	134	34	92
Herring, William. (See Braithwaite, Lane, and Herring.)						
Herrington, Ephraim F., West Hoosick, N. Y. Oil-hole cover	345,136	July 6	470	120	36	85
Herrington, William K., assignor of one-half to J. R. Martin, Aurora Ill. Cuff-holder	351,376	Oct. 26	1811	476	37	349
Herrinton, Edward E., and H. C. Russell, Grand Rapids, Mich. Folding cot-bed	353,943	Dec. 7	423	114	37	1084
Herrman, Al. (See Patterson, Davis, and Herrman.)						
Herrmann, Charles, New York, assignor to W. J. Matheson, Brooklyn, N. Y. Multiple call-box	350,882	Oct. 12	1104	294, 295	37	209
Herrmann, Henry O., assignor to W. Webster, Philadelphia, Pa. Ventilator and chimney-top	339,099	Mar. 30	3061	819	34	1501
Herron, Hiram C., Cleveland, Ohio. Telegraph-pole	347,602	Aug. 17	1579	419	36	773
Herron, John, assignor of one-third to F. T. Phillips, Olney, Ill. Music-leaf turner	333,519	Jan. 5	33	9	34	9
Herron, Thomas W. (See Randall, William H., assignor.)						
Hersee, Sidney, *et al.* (See Court, Charles, assignor.)						
Hersey Brothers. (See Hersey and Winton, assignors.)						
Hersey, Francis C., and H. D. Winton, Wellesley, assignors to Hersey Brothers, Boston, Mass. Machine for packing cube-sugar in boxes	351,770	Nov. 2	58	15	37	469
Hersey, George W., Empire, Wis. Tanning	349,589	Sept. 21	1440	.....	36	1331
Hersey Meter Company. (See Tilden, James A., assignor.) (Reissue.)						
Hersey, Randolph, Montreal, Quebec, Canada. Nail-plate feeder	354,980	Dec. 28	1926	509, 510	37	1386
Hersey, Sidney, *et al.* (See Court, Charles, assignor.)						
Hersh, Elmer E. (See Hersh, John R. and E. E.)						
Hersh, John R. and E. E., Dayton, Ohio. Jumping-jack	353,416	Nov. 30	2367	631	37	933
Hershey, Andrew. (See Hershey, Carlton and A.)						
Hershey, Carlton and A., Allendale, Ill. Automatic grain-weighing machine	351,377	Oct. 26	1811	476	37	350
Hertenstein, Michael, Columbus, Ohio. Reservoir cooking-stove	338,739	Mar. 30	2543	671	34	1410
Hertz, William H., Hazleton, Pa. Furniture-pad	351,509	Oct. 26	2042	530	37	392
Hervey, William, Hicksville, Ohio. Thill-support	342,440	May 25	2050	541	35	910
Herz, Adolph, *et al.* (See Friede, Wilhelm, assignor.)						
Herz, Cornelius, Paris, France. Telephone system	349,042	Sept. 14	693	178	36	1178
Herz, Cornelius, Paris, France. Telephone	349,043	Sept. 14	696	178	36	1178
Herzog, Moritz, Hoboken, N. J. Fining composition	341,239	May 4	377	.....	35	574
Herzog, Philip W., Minneapolis, Minn. Construction of prison-cells	348,210	Aug. 31	2479	666, 667	36	953
Hescock, Henry W., Hubbard, Ohio. Evaporating-pan	335,583	Feb. 9	694	184	34	572
Heslop, Christopher. (See Hudson, Rowe, and Heslop.)						
Hess, Abraham. (See Schwab and Hess.)						
Hess, Albert T., Des Moines, Iowa. Electric annunciator and fire-alarm	341,909	May 18	1296	346, 347	35	765

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hess, Albert T., assignor to Iowa Electrical Company, Des Moines, Iowa. Hotel-annunciator and fire-alarm. (Reissue.)	10,711	Apr. 13	1389	349	35	254
Hess, Albert T., and H. A. Stoltenberg, Des Moines, Iowa; said Stoltenberg assignor to said Hess. Hotel call, fire-alarm, and indicator	350,626	Oct. 12	746	205	37	143
Hess, Alfred. (See Hess, Elmer J., assignor.)						
Hess, Elmer J., Cincinnati, Ohio. Blank clip for spring-heads	341,479	May 11	709	190	35	644
Hess, Elmer J., assignor of one-half to A. Hess, Cincinnati, Ohio. Vehicle-spring	338,072	Mar. 16	1604	418	34	1227
Hess, George H., Chicago, Ill. Fire-pot for stoves and furnaces	333,627	Jan. 5	168	45,46	34	33
Hess, George H., Chicago, Ill. Hot-air equalizing-register	346,102	July 27	1852	478	36	355
Hess, George H., Chicago, Ill. Fire-pot	348,013	Aug. 24	2184	581, 582	36	892
Hess, Jacob, Muscatine, Iowa. Harness-saddle	346,750	Aug. 3	372	100	36	533
Hess, John, and G. Jensen, Newark, N. J. Oil-can	335,520	Feb. 2	602	156	34	547
Hess, John G., Emmettsburg, Md. Tire	352,187	Nov. 9	691	184	37	593
Hess, John G., Emmettsburg, Md. Thill-coupling	352,919	Nov. 23	1648	443	37	792
Hess, John M., Philadelphia, Pa. Air-heating furnace	334,661	Jan. 19	1655	442	34	320
Hess, Silas M., Bloomsburg, Pa. Culm bar	343,370	June 8	892	224	35	1177
Hessels, Anthony, New York, N. Y. Collar-button	339,775	Apr. 13	997	246	35	182
Hessler, Jacob, Chicago, Ill. Reed-board	335,700	Feb. 9	863	228	34	601
Hessler, Jacob, Chicago, Ill. Cabinet-organ	352,128	Nov. 9	599	158	37	577
Hessler, Jacob, Chicago, Ill. Socket-board for reed-organs	352,129	Nov. 9	599	158, 159	37	577
Hessler, Jacob R., Chicago, Ill. Combined organ and sewing-machine	338,740	Mar. 30	2545	671, 672	34	1410
Hester, Thomas H., Troy, Miss. Churn	334,586	Jan. 19	1547	414	34	300
Heston, David, assignor to Brown, Heston & Co., Philadelphia, Pa. Grease-proof paper	337,155	Mar. 2	362	95	34	993
Heston, Watson, Carthage, Mo. Combined tool for raking, hoeing, shoveling, and pitching	334,438	Jan. 19	1341	363	34	263
Hetherington & Berner. (See Hetherington, Fredrick A., assignor.)						
Hetherington, Fredrick A., assignor to Hetherington & Berner, Indianapolis, Ind. Inking apparatus for cylinder printing-machines	335,196	Feb. 2	156	40	34	469
Hetherington, John S., Dallas, Tex. Power-stand	335,128	Feb. 2	42	12	34	448
Heuer, August, *et al.* (See Seng, Wendelin, assignor.)						
Heughes, John C., *et al.* (See Hatfield, Charles B., assignor.)						
Heunsch, Edmund F. (See Bex and Heunsch.)						
Heusch, Anton. (See Stotz and Heusch.)						
Hewes, Fletcher W., New York, N. Y. Rotary cutter	343,174	June 8	586	146	35	1122
Hewes, Fletcher W., New York, N. Y. Indexing-machine for books	343,175	June 8	587	147	35	1122
Hewett, Austin C., Chicago, Ill. Dental matrix	348,628	Sept. 7	134	37	36	1072
Hewett, Robert J., St. Louis, Mo. Biscuit-cutter	337,329	Mar. 2	603	158	34	1037
Hewitt, Edward G., Brooklyn, N. Y. Furnace	345,971	July 20	1675	433	36	314
Hewitt, Edward G., Brooklyn, N. Y. Furnace	345,972	July 20	1677	434	36	314
Hewitt, Jackson W., Jackson, Mich. Shifting-rail for vehicles	340,577	Apr. 27	2118	546	35	400
Hewitt, John, *et al.* (See Phillips, Francis V., assignor.)						
Hewitt, John W., Allegheny, Pa. Coal-digging apparatus	341,240	May 4	378	104	35	574
Hewitt, Leslie, Louisville, Ky., assignor of one-half to Pratt & Letchworth, Buffalo, N. Y. Buckle	342,092	May 18	1552	415	35	813
Hewitt, Leslie, assignor of one-half to Pratt & Letchworth, Buffalo, N. Y. Back-band buckle	354,417	Dec. 14	1110	298	37	1217
Hewitt, Silas F., New York, N. Y. Sleigh	336,411	Feb. 16	1907	499	34	793
Hewitt, William. (See Campbell and Finch, assignors.)						
Hewitt, William, assignor to Trenton Iron Company, Trenton, N. J. Metallic-spring mattress	335,924	Feb. 9	1187	316	34	660
Hewlett, Henry N., Oscoda, Mich. Log skidding and loading machine	340,312	Apr. 20	1747	445	35	325
Hexamer, Charles J., Philadelphia, Pa. Fire-bucket low-water alarm	335,223	Feb. 2	199	52	34	476
Hexamer, Charles J., Philadelphia, Pa. Fire-extinguishing device	341,143	May 4	238	71	35	549
Hexamer, Charles J., Philadelphia, Pa. Mechanism for extinguishing fires in malt and grain mills	347,797	Aug. 24	1869	499	36	834
Hey, George W., Syracuse, assignor of one-half to M. J. Dolphin, Brooklyn, N. Y. Automatic electric barrel-register	347,038	Aug. 10	767	204, 205	36	615
Hey, George W., and E. Laass, Syracuse, N. Y., assignors, by mesne assignments, to International Postal Supply Company of New York. Marking and stamping apparatus	341,380	May 4	572	158	35	609
Hey, Robert H., Philadelphia, Pa. Strainer for water and other fluids	338,523	Mar. 23	2224	583	34	1349
Heyde, Edward, East Saginaw, Mich. Saw-mill carriage	350,742	Oct. 12	904	242	37	172
Heydrich, Adolph, Topeka, Kans. Adjustable interior calipers	339,410	Apr. 6	423	104	35	79
Heyer, Carl. (See Reichardt and Heyer.)						
Heylman, Edward M., Peoria, Ill. Check-rower	353,452	Nov. 30	2421	646	37	944
Heyman, Frederik, Svanholm, Denmark. Siphon for beer, &c	354,787	Dec. 21	1662	439	37	1324
Heyman, Harry. (See Surratt and Heyman.)						
Heymann, Edward and F. W., assignors of one-half to J. I. Clapp, Boston, Mass. Electric lamp	348,971	Sept. 14	591	157	36	1161
Heymann, Edward and F. W., assignors of one-half to J. I. Clapp, Boston, Mass. Electric lamp	348,972	Sept. 14	593	157	36	1162
Heymann, Edward and F. W., assignors of one-half to J. I. Clapp, Boston, Mass. Electric lamp	348,973	Sept. 14	595	157	36	1162
Heymann, Frank W. (See Heymann, Edward and F. W.)						
Heynemann, Lionel H. (See Behr, Hans C., assignor.)						
Heysinger, Isaac W., Philadelphia, Pa. Spring clamping device	334,016	Jan. 12	712	196	34	141
Heysinger, Isaac W., Philadelphia, Pa. Machine for making looped-wire staples	340,573	Apr. 27	2120	546	35	401
Heysinger, Isaac W., Philadelphia, Pa. Binding-strip for papers, &c	341,005	May 4	46	12	35	514
Heysinger, Isaac W., Philadelphia, Pa. Hair-crimper	347,177	Aug. 10	970	259	36	652
Heysinger, Isaac W., Philadelphia, Pa. Machine for inserting metallic staples in papers, &c	349,093	Sept. 14	769	196	36	1191
Heysinger, Isaac W., Philadelphia, Pa. Stick for holding staples, &c	349,094	Sept. 14	773	196	36	1192
Heysinger, Isaac W., Philadelphia, Pa. Cabinet for prints, books, &c	350,588	Oct. 12	687	186, 187	37	131
Heywood, Henry, Gardner, Mass. Covered frame for furniture	333,628	Jan. 5	170	46	34	33
Heywood, Warren A., Bucksport, Me. Hame-staple	338,073	Mar. 16	1605	418	34	1227
Hibarger, Emanuel, Hagerstown, Md. Watch-maker's oil-cabinet	346,201	July 27	1995	514	36	382
Hibbard, William C. (See Salomon, Etienne, assignor.)						
Hice, Richard R., Beaver, Pa., assignor to Rote Automatic Brake Company, Mansfield, Ohio. Car-brake	346,202	July 27	1997	515	36	383
Hice, Richard R., Beaver, Pa., assignor to Rote Automatic Brake Company, Mansfield, Ohio. Car brake	347,039	Aug. 10	770	205, 206	36	615
Hickey, James. (See Kelso, James P., assignor.)						
Hickley, Arthur S., Groton, Conn., assignor to Jenney Electric Company, Indianapolis, Ind. Incandescent lamp	354,788	Dec. 21	1663	440	37	1324

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Hickman, Erasmus D., Havre de Grace, Md., assignor of one-half to W. T. Hickman, Wilmington, Del. Harness-buckle	345,381	July 13	805	203	36	150
Hickman, William T. (See Hickman, Erasmus D., assignor.)						
Hickok, Frank K., New York, N. Y., assignor to Hulsapple & Co. Pillow-sham holder	341,241	May 4	379	104	35	575
Hickok, W. O. (See Metzger and Brown, assignors.)						
Hickok, William O. (See Metzger and Cooper, assignors.)						
Hicks, Bohn C., Minneapolis, Minn. Stock-car	338,743	Mar. 30	2549	673	34	1411
Hicks, Bohn C., Minneapolis, Minn. Stock-car	344,044	June 22	1825	468	35	1359
Hicks, Bohn C., Minneapolis, Minn. Stock-car	344,833	July 6	41	10	36	9
Hicks, Henry C., Minneapolis, Minn. Stock-car	338,741	Mar. 30	2546	672, 673	34	1410
Hicks, Henry C., Minneapolis, Minn. Stock-car	338,742	Mar. 30	2548	673	34	1411
Hicks, Henry C., Minneapolis, Minn. Stock-car	344,045	June 22	1826	469	35	1360
Hicks, Ira V., Kalamazoo, Mich. Road-cart	350,487	Oct. 12	547	152	37	108
Hicks, Israel, Yonkers, N. Y. Peanut-roaster	337,952	Mar. 16	1448	375	34	1199
Hicks, James J. (See Crossley and Hicks.)						
Hicks, James J. (See Crossley, Hanson, and Hicks.)						
Hicks, John W. (See Hicks, Simeon J. and J. W.)						
Hicks, Michael, New York, N. Y. Car-lamp	352,243	Nov. 9	761	203	37	605
Hicks, Oliver H., Chicago, Ill. Toilet-paper and fixture	334,864	Jan. 26	1918	510	34	377
Hicks, Oliver H., Chicago, Ill. Paper-receptacle	351,980	Nov. 2	365	100	37	526
Hicks, Oliver H., Chicago, Ill. Fixture for holding toilet-paper	352,950	Nov. 23	1692	454	37	799
Hicks, Oliver H., Chicago, Ill. Package of toilet-paper	352,951	Nov. 23	1693	454	37	799
Hicks, Ratcliffe, New York, N. Y., assignor to Canfield Rubber Company, Bridgeport, Conn. Door-spring	350,535	Oct. 12	608	168	37	117
Hicks, Simeon J. and J. W., Chicago, Ill. Combined lock and latch	351,107	Oct. 19	1443	378	37	276
Hicks, William A., and A. Wilson, Johnstown, Pa. Automatic railway-switch	339,411	Apr. 6	425	104	35	79
Hicks, William H., assignor of one-half to J. Schmitt, New York, N. Y. Snow-shovel	342,961	June 1	264	68	35	1054
Hicks, William S., New York, N. Y. Button-hook	337,833	Mar. 16	1281	331	34	1169
Hicks, William W., Fort Mason, Fla. Treatment of humus and muck	345,507	July 13	990	251	36	184
Higbee, Charles, assignor of one-half to G. W. Donohue, Philadelphia, Pa. Hat-holder	350,743	Oct. 12	905	243	37	172
Higbee, Charles H., assignor to A. J. Davies, New York, N. Y. Lamp	333,520	Jan. 5	34	9, 10	34	9
Higbee, Charles H., assignor to A. J. Davies, New York, N. Y. Coal-oil lamp	333,521	Jan. 5	35	10	34	9
Higbee, Charles H., assignor to A. J. Davies, New York, N. Y. Lamp-burner	334,017	Jan. 12	714	196	34	141
Higbee, Charles H., assignor to A. J. Davies, New York, N. Y. Lamp	334,018	Jan. 12	716	196	34	141
Higby, Charles H. (See Smith, Emmet L., assignor.)						
Higgin, Henry, Newport, Ky. Prop-nut	336,808	Feb. 23	2448	643	34	897
Higgin, Henry, Newport, Ky. Prop-nut	347,240	Aug. 10	1053	282	36	667
Higgins, Alfred, executor. (See Higgins and Whitworth.)						
Higgins, Boynton J., assignor of one-half to I. H. Randall, Boston, Mass. Necktie-fastener	352,130	Nov. 9	601	159	37	577
Higgins, Campbell P., Philadelphia, Pa. Machine for forming and punching polygonal tubes	336,852	Feb. 23	2506	660	34	968
Higgins, Campbell P., Philadelphia, Pa. Machine for forming and punching polygonal tubes	336,853	Feb. 23	2507	661	34	909
Higgins, Campbell P., Philadelphia, Pa. Machine for forming serpentine tubes	336,854	Feb. 23	2508	661	34	909
Higgins, Campbell P., Philadelphia, Pa. Tube-punching machine	337,330	Mar. 2	604	158	34	1038
Higgins, Charles J. Hallowell, Me. Lantern-globe	349,219	Sept. 14	932	239	36	1223
Higgins Charles S. Jr., assignor of one-half to C. S. Higgins, Sr., Brooklyn, N. Y. Shaft-coupling	355,267	Dec. 28	2345	617	37	1467
Higgins, Daniel, Boston, Mass. Sewer-trap	334,378	Jan. 12	1253	338	34	240
Higgins, Edward S., assignor to C. T. Cayley, London, England. Machine for trimming the edges of hollow articles	338,969	Mar. 30	2853	753, 754	34	1467
Higgins, H. Ambrose. (See Higgins, Mason A., assignor.)						
Higgins, Jacob V., near Three Bridges, N. J. Anchor for fence-posts	343,371	June 8	893	224	35	1177
Higgins, James, deceased, (A. Higgins, executor,) and T. S. Whitworth, Salford, county of Lancaster, England, assignors to Pettee Machine Works, Newton Upper Falls, Mass. Slubbing and roving frame	341,574	May 11	843	224, 225	35	670
Higgins, John J., assignor to E. & H. T. Anthony & Co., New York, N. Y. Photo-chronograph	351,108	Oct. 19	1445	378, 379	37	276
Higgins, John J., assignor to E. & H. T. Anthony & Co., New York, N. Y. Camera-stand	353,856	Dec. 7	289	76	37	1059
Higgins, Joseph C., New Brunswick, N. J. Filter	338,411	Mar. 23	2074	544	34	1332
Higgins, Joseph C., New Brunswick, N. J. Automatic water-pipe-feeding attachment	340,313	Apr. 20	1749	446	35	325
Higgins, Mason A., assignor to H. A. Higgins, Aurora, Ill. Carpet-stretcher	335,356	Feb. 2	380	99	34	509
Higgins, Oliver, and A. S. Condit, Napoleon, Ohio. Device for driving and bending headless tacks	337,061	Mar. 2	237	63	34	969
Higgins, Solomon S. (See Lakin, Rinaldo S., assignor.)						
Higgins, Summer C., Cambridgeport, Mass. Steam-boiler	342,747	May 25	2496	664	35	992
Higgins, Sylvester W., St. Louis, Mo. Washing-machine	338,524	Mar. 23	2225	583	34	1349
High, Isaac, Janesville, Iowa. Reel for fence-wire	347,241	Aug. 10	1054	282	36	667
Higham, Charles C., Rome, N. Y., assignor to American Brake Company, St. Louis, Mo. Adjustable lock for bolts and shafts	347,798	Aug. 24	1871	499	36	835
Higham, Daniel. (See Higham, Enos T. and D.)						
Higham, Edwin, Chicago, Ill. Drill for glass	350,132	Oct. 5	46	13	37	11
Higham, Enos T. and D., Philadelphia, Pa. Electric motor	343,176	June 8	590	147	35	1123
Higham, Enos T. and D., assignors of one-third to J. M. Jones, Philadelphia, Pa. Electric motor	349,715	Sept. 28	1624	419	36	1372
Higham, Enos T. and D., assignors of one-third to J. M. Jones, Philadelphia, Pa. Dynamo-electric machine	349,716	Sept. 28	1625	419	36	1372
Highbarger, John L., assignor of one-half to H. C. Mumma, Sharpsburg, Md. Finger-bar for reapers and mowers	348,905	Sept. 7	498	132	36	1139
Highfield, John W. (See King and Highfield.)						
Hight, Paul, Spencer, Ind. Oil-pump	345,431	July 13	886	220	36	165
Higley, Ira L., assignor of two-thirds to H. J. McChesney, Troy, and J. H. Bonesteel, Sand Lake, N. Y. Curry-comb	342,512	May 25	2164	573	35	929
Higley, Eben N., Somersworth, N. H. Railway-tie	334,228	Jan. 12	1045	278	34	202
Higley, Eben N., Somersworth, N. H. Metal railway-tie	353,028	Nov. 23	1802	484	37	819
Hilbert, John A., Carroll, Iowa. Corn harvesting and husking machine	351,916	Nov. 2	274	75, 76	37	507
Hilbirt, Gustave, Buffalo, N. Y. Steam-boiler	349,159	Sept. 14	857	219	36	1208
Hildebrand, Oscar E., Norwich, Conn. Beading-tool	352,056	Nov. 2	471	128	37	548
Hildebrand, Wilhelm H., Indianapolis, Ind. Fountain-pen	348,395	Aug. 31	2726	732	36	1001
Hildebrand, William G., White Plains, N. Y. Hair-clipper	341,006	May 4	48	12	35	514
Hildesheim, Joseph, Alton, Iowa. Harrow	347,106	Aug. 10	874	231	36	634
Hildreth, Elmer J., New Haven, Conn. Hitching device	337,582	Mar. 9	960	246	34	1105
Hildreth, Elmer J., and T. R. Miller, New Haven, Conn. Universal marker	335,357	Feb. 2	382	99	34	510

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Hildreth, Francis, Townsend's Inlet, N. J. Vehicle running-gear	334,439	Jan. 19	1342	363	34	263
Hildreth, George, assignor to G. W. Percy and J. E. Gaitley, Troy, N. Y. Wire-coiling machine	347,350	Aug. 17	1221	325, 326	36	706
Hildreth, Joseph E. (See Allton, Hiram, assignor.)						
Hildt, August, assignor to L. Dryfoos & Co., New York, N. Y. Quilting-machine	338,525	Mar. 23	2225	584	34	1349
Hildt, August, assignor to L. Dryfoos & Co., New York, N. Y. Quilting-machine	343,029	June 1	353	91, 92	35	1071
Hiler, Giles P., Grand Haven, Mich. Ice-velocipede	351,771	Nov. 2	59	16	37	469
Hill, Abraham, Marlborough, county of Wilts, England. Valve-gear for steam-pumps	338,152	Mar. 16	1718	448, 449	34	1250
Hill, Alexander H., Oskaloosa, Iowa. Window-blind. (Reissue)	10,692	Feb. 23	2563	676, 677	34	919
Hill, Alfred and R., and C. M. Bevan, Middlesborough, county of York, England. Rail-breaking machine	344,735	June 29	2767	717	35	1539
Hill, Benjamin B., Philadelphia, Pa. Blotter-batb	335,584	Feb. 9	695	184	34	572
Hill, Benjamin B., Philadelphia, Pa. Blotter-bath	335,585	Feb. 9	695	184	34	572
Hill, Benjamin B., Philadelphia, Pa. Self-inking hand-stamp	338,153	Mar. 16	1720	449	34	1250
Hill, Benjamin B., Philadelphia, Pa. Hand-stamp	339,293	Apr. 6	257	64, 65	35	48
Hill, Benjamin B., Philadelphia, Pa. Hand-stamp. (Reissue)	10,740	June 29	2866	741	35	1560
Hill, Benjamin B., Philadelphia, Pa. Hand-stamp	344,903	July 6	152	38	36	28
Hill, Benjamin B., Philadelphia, Pa. Dating-stamp	344,904	July 6	153	39	36	28
Hill, Benjamin B., Philadelphia, Pa. Hand-stamp	348,211	Aug. 31	2481	667	36	953
Hill, Benjamin B., Philadelphia, Pa. Inking-pad	352,323	Nov. 9	867	233	37	625
Hill, Charles F., Springfield, Wis. Pliers	336,715	Feb. 23	2326	609	34	875
Hill, Charles S., Cumru, assignor of three-fourths to G. L. Knopp, J. R. Miller, and W. Van Reed, Reading, Pa. Fruit-picker	339,549	Apr. 6	647	157	35	117
Hill, David. (See Pohlé and Hill.)						
Hill, Ebenezer, South Norwalk, Conn. Re-enforcing tubular or hollow structures	339,885	Apr. 13	1137	283	35	269
Hill, Edward A., Keithsburg, Ill. Wagon running-gear	346,284	July 27	2113	543	36	405
Hill, Edward B. (See Dorr and Hill.)						
Hill, Edwin H., Worcester, Mass. Coating wire with zinc	345,382	July 13	806	203	36	150
Hill, Elijah W. (See Hill, Thomas E. and E. W.)						
Hill, Frank A., assignor to J. Hendy, San Francisco, Cal. Quartz-mill	342,093	May 18	1553	415	35	813
Hill, Frederick W., New Haven, Conn. Roller-skate	346,158	July 27	1939	499	36	371
Hill, George, administrator. (See Hill, S. Ambrose.)						
Hill, George W., Quincy, Mass. Counter-balance for cutter-heads	339,886	Apr. 13	1138	283	35	210
Hill, George W., New York, N. Y. Protective garment	345,899	July 20	1580	408	36	296
Hill, Harry W., Beloit, Wis. Pulley-bearing	337,953	Mar. 16	1449	375	34	1199
Hill, Ivory B. (See Dudley, Myrick, assignor.)						
Hill, James, London, England. Reversible latch	341,805	May 11	1145	304	35	729
Hill, James, Wilkes-Barré, Pa. Combined truck and step-ladder	345,973	July 20	1679	434	36	311
Hill, James D., Lamar, Mo. Hand-truck	343,635	June 15	1264	318	35	1258
Hill, James D., Lamar, Mo. Ironing-machine	345,785	July 20	1422	363	36	263
Hill, James P., Saco, Me. Floor-clamp	354,418	Dec. 14	1111	298	37	1217
Hill, James W., St. Louis, Mo. Apparatus for assisting skaters and swimmers	339,650	Apr. 13	819	201	35	150
Hill, John R., Washington, D. C. Engraved plate	335,814	Feb. 9	1028	272	34	632
Hill, Joseph G., Flatbush, N. Y. Car-wheel	350,133	Oct. 5	47	13	37	12
Hill, Justin H., Chicago, Ill. Hame-fastener	336,111	Feb. 16	1457	384	34	714
Hill, Louis C., assignor of one-half to J. W. Weaver, Myrtle Creek, Oreg. Implement for weeding and thinning plants	341,844	May 11	1205	323	35	741
Hill, R. G. (See Clayton, Robert G., assignor.)						
Hill, Richard. (See Hill and Bevan.)						
Hill, Robert. (See Emert and Hill.)						
Hill, Rowland, *et al.* (See Walter, Willie C., assignor.)						
Hill, S. Ambrose, deceased, (G. Hill, administrator,) Sunbury, Pa. Rheostat for incandescent electric lights	336,716	Feb. 23	2326	610	34	875
Hill, Samuel C., Richmond, Ind., and H. D. Crooker, Battle Creek, Mich. Clothes-pounder	334,379	Jan. 12	1254	338	34	240
Hill, Terelius A., and J. Peelle, Maryville, Tenn. Quilting attachment for sewing-machines	338,154	Mar. 16	1721	449	34	1251
Hill, Thomas E., Rahway, N. J. Muffler for steam-valves	342,962	June 1	265	68, 69	35	1054
Hill, Thomas E., Rahway, N. J. Muffler for steam-valves	353,062	Nov. 23	1862	503	37	829
Hill, Thomas E., Covington, and E. W. Hill, Bradford Junction, Ohio. Feather-renovator	342,513	May 25	2165	573	35	929
Hill, W. H. (See Rheutan, Abram A., assignor.)						
Hill, Wade H. (See Rheutan, Abram A., assignor.)						
Hill, Walter, Easton, Mass. Cartridge-loading machine	351,981	Nov. 2	366	100	37	526
Hill, Warren S., Boston, Mass. Electric lamp	351,601	Oct. 26	2183	564	37	413
Hill, William, *et al.* (See Platt, Mathias, assignor.)						
Hill, William, Aliceville, Kans. Harrow	353,944	Dec. 7	424	114, 115	37	1054
Hill, William B. (See Garner and Hill.)						
Hill, William D., Northwood, N. H. Harness	343,315	June 8	789	197	35	1159
Hill, William P., Somerville, Mass. Paper bag	351,378	Oct. 26	1814	477	37	350
Hillard, James P., Fall River, Mass. Cotton-waste picker	348,394	Aug. 31	2725	732	36	1001
Hillebrand, Louis, assignor of one-half to D. Wolf, Philadelphia, Pa. Padlock	348,521	Aug. 31	2913	783	36	1036
Hiller, Michael L., New York, N. Y. Bow for ladies' wear	352,823	Nov. 16	1513	408	37	776
Hiller, William H., Toronto, Ontario, Canada. Rein-holder	339,887	Apr. 13	1139	283	35	210
Hillery, Benjamin F., New York, N. Y. Fastening for boxes, satchels, &c	336,316	Feb. 16	1777	465	34	709
Hillhouse, Frank S., *et al.* (See Hoedemaker and O'Harra, assignors.)						
Hilliard, Joseph, Northborough, Mass. Distributer for fertilizers	349,717	Sept. 28	1626	419	36	1372
Hilliger, Max, Dohna, Saxony, Germany. Skate	339,178	Apr. 6	82	24	35	17
Hillis, Levi H., Kokomo, assignor of one-half to J. O. Greeson, Alto, Ind. Harness-bridle	341,460	May 11	710	191	35	644
Hillman, Herbert & Cooper. (See Hillman, William, assignor.)						
Hillman, John W. L., Fairhaven, Mass. Pocket-knife, pencil-sharpener, &c	346,043	July 20	1780	458	36	321
Hillman, William, assignor to Hillman, Herbert & Cooper, (limited,) Coventry, county of Warwick, England. Tennis-bat	346,751	Aug. 3	373	100, 101	36	5[illegible]
Hills, Christian. (See Purviance and Hills.)						
Hills, Franklin B., Torrington, Conn. Folding table and stool	351,637	Oct. 26	2235	578	37	427
Hills, Justin, Ischua, assignor of one-half to F. Fitch, Franklinville, N. Y. Rotary steam-engine	347,242	Aug. 10	1054	282	36	667
Hilton, Charles H., assignor of two-thirds to E. B. Baker and R. D. Blish, New Haven, Conn. Electric alarm apparatus	334,380	Jan. 12	1255	339	34	240
Hilton, William, Dunkirk, N. Y. Brick-machine	349,500	Sept. 21	1323	343, 344	36	1308
Hime, John F., Farmersville, Ohio. Animal-stock	346,985	July 27	2114	544	36	405
Himebauch, Eli A. (See Patterson and Himebauch.)						
Himes, Frank, Bracket, Tex. Billiard-table leveler	341,481	May 11	711	191	35	644

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Himmer, Ida C. (See Weisgerber and Himmer.)						
Himmer, Vitalis, New York, N. Y. Circuit-breaker for electric clocks	354,525	Dec. 14	1271	339	37	1245
Himmer, Vitalis, assignor to Standard Electric Clock Company, New York, N. Y. Secondary electric clock	337,583	Mar. 9	961	246	34	1105
Himstedt, William F. (See Charlton and Lynch, assignors.)						
Hinchey, Emeline. (See Underhill, Andrew J., 2d, assignor.)						
Hinchliffe, James, Philadelphia, Pa., assignor of one-half to J. and J. Dobson. Shedding mechanism for looms	349,794	Sept. 28	1735	448	36	1393
Hinckley, Gustavus A., Barnstable, Mass. Paper-holder	346,159	July 27	1939	499	36	372
Hinckley, Hermon, Williamsport, Pa. Electrical train-brake	344,736	June 29	2769	717, 718	35	1539
Hinckley, Hermon, assignor of one-half to J. N. Kline, Williamsport, Pa. Hanger for doors and blinds	353,788	Dec. 7	186	51, 52	37	1041
Hinckley, Howard V., Topeka, Kans. Switch-stand	348,968	Sept. 14	588	156	36	1161
Hincks, Enoch P., and G. H. Johnson, Bridgeport, Conn. Coach-hinge	348,212	Aug. 31	2482	667	36	953
Hinderer, Gustav L., assignor of one-half to C. Kaufmann, Philadelphia, Pa. Bake-pan	334,662	Jan. 19	1656	442	34	320
Hindley, Solomon K., and E. S. Field, Springfield, Mass. Breech-loading fire-arm	345,058	July 6	367	92	36	67
Hindmarsh, Percy J., and W. H. Gwinn, Centralia, Kans. Thill-coupling	348,014	Aug. 24	2186	582	36	892
Hinds, Frank A., Watertown, N. Y. Water-motor	344,737	June 29	2773	718	35	1540
Hinds, Frank A., assignor to Hinds, Moffett & Co., Watertown, N. Y. Device for operating valves	339,888	Apr. 13	1140	283	35	210
Hinds, Moffett & Co. (See Hinds, Frank A., assignor.)						
Hine, Charles A., New Haven, assignor to Canfield Rubber Company, Bridgeport, Conn. Hose-supporter	337,954	Mar. 16	1450	376	34	1200
Hine, L. G. (See Maltby, Philo, assignor.)						
Hine, Mary A. L., and O. S. Reed, Chicago, Ill. Bottle-wrapper	352,188	Nov. 9	692	185	37	593
Hiner, Jacob J., Harvard, Ill. Broom-holder	344,314	June 22	2199	565	35	1428
Hines, Andrew L., Charlotte, Mich. Folding table	344,834	July 6	42	11	36	9
Hines, Dauphin S., *et al.* (See Bicknell, William A. P., assignor.)						
Hines, Patrick D., Summit Station, Ohio. Pump	337,402	Mar. 9	699	182	34	1061
Hines, Thaddeus W., Tama City, assignor, by mesne assignments, of two-thirds to J. C. Joralemon, Toledo, Iowa. Cutlery-scoure	342,094	May 18	1554	415	35	813
Hinbel, John, Milwaukee, Wis. Table	353,137	Nov. 23	1971	527	37	851
Hinkle, James E., Todd's Point, Ky. Fence	351,032	Oct. 19	1344	353	37	258
Hinkle, William A., and F. C. Jeffery, Galveston, Tex. Door-check	355,080	Dec. 28	2072	544	37	1412
Hinkley, George M., assignor of one-half to E. P. Allis & Co., Milwaukee, Wis. Circular sawing machine	334,663	Jan. 19	1656	442, 443	34	320
Hinkley, George M., assignor of one-half to E. P. Allis & Co., Milwaukee, Wis. Feed-carriage for saw-mills	334,664	Jan. 19	1658	443	34	320
Hinkley, George M., assignor of one-half to E. P. Allis, Milwaukee, Wis. Band-saw mill	348,280	Aug. 31	2572	691, 692	36	970
Hinkley, George M., assignor of one-half to E. P. Allis, Milwaukee, Wis. Combined band and circular saw mill	348,281	Aug. 31	2575	692, 693	36	971
Hinkley, George M., assignor of one-half to E. P. Allis, Milwaukee, Wis. Combined band and circular saw mill	348,282	Aug. 31	2578	693	36	972
Hinkley, George M., assignor of one-half to E. P. Allis, Milwaukee, Wis. Supporting-wheel for band-saws	348,283	Aug. 31	2578	693	36	972
Hinkley, George M., assignor of one-half to E. P. Allis, Milwaukee, Wis. Wheel for band-saws	353,260	Nov. 23	2133	573	37	884
Hinkley, Jonas, assignor to Bostwick & Burgess, Norwalk, Ohio. Carpet-sweeper. (Reissue)	10,701	Mar. 23	2455	647	34	1388
Hinkley, Zalmon D., Grand Rapids, Mich. Wardrobe-trunk	352,824	Nov. 16	1514	408	37	756
Hinman, Albert, Friendship, and J. Hinman, West Almond, N. Y. Seeding-machine	348,213	Aug. 31	2483	667, 668	36	954
Hinman, George C., Springfield, Mass. Perch and food-holder for cages	340,116	Apr. 20	1447	366	35	270
Hinman, George W., Paducah, Ky. Churn	333,629	Jan. 5	170	46	34	33
Hinman, Jesse. (See Hinman, Albert and J.)						
Hinsdale, William R. (See Billings and Hinsdale.)						
Hinsdale, William R., Brooklyn, N. Y. System for disposing of sewage	346,203	July 27	1998	515, 516	36	383
Hinshaw, Amos S. (See Dwiggins, William, assignor.)						
Hinternesch, Herman D. and Herman D., Jr., Baltimore, Md. Roller for hanging curtains	346,752	Aug. 3	374	101	36	534
Hinton, Francis. (See Parkes, William B., assignor.)						
Hintz, Julius C., Cincinnati, Ohio. Bolt for jail-doors	345,786	July 20	1423	368	36	269
Hinze, Charles W., Cumberland, Md. Miter-box	345,590	July 13	1130	288	36	209
Hipgrave, Frank, London, county of Middlesex, assignor to A. B. Biggs, Birmingham, England. Cigarette-machine	353,945	Dec. 7	425	115, 116	37	1084
Hipp, Adam I., Columbia, S. C. Saw-mill feed mechanism	343,457	June 8	1023	254, 255	35	1199
Hipp, Preston O., Moro Bay, assignor of one-half to W. R. Watson, Bradley County, Ark. Car-coupling	348,559	Sept. 7	23	7	36	1052
Hipperling, William, assignor to Ginna & Co., New York, N. Y. Sheet-metal can	333,945	Jan. 5	613	167	34	115
Hirlimann, Charles J., New York, N. Y. Electric battery	351,602	Oct. 26	2185	564	37	418
Hirsch, Charles, Buffalo, N. Y. Oil-pump	354,419	Dec. 14	1112	299	37	1217
Hirsch, Leon, New York, N. Y. Fire-escape	353,029	Nov. 23	1803	484	37	819
Hirsch, Philip. (See McMillen, Thomas, assignor.)						
Hirsh, Morris M., Chicago, Ill. Freight-car	340,579	Apr. 27	2125	546, 547, 548	35	401
Hirt, Louis J., assignor of four-fifths to L. M. Loss, Rochester, N. Y. Nail-machine	341,658	May 11	955	253, 254	35	691
Hirth, Alexander. (See Row, William, assignor.)						
Hirth, Joseph, St. Louis, Mo. Reflector attachment for lanterns	353,678	Dec. 7	40	11	37	1014
Hiscott, Alva J., Bridgeport, Conn. Dies for making seamless dress-shields	339,294	Apr. 6	258	65	35	48
Hiscott, Alva J., Bridgeport, Conn. Die for making seamless dress-shields. (Reissue)	10,772	Oct. 19	1769	464, 465	37	336
Hiscott, Alva J., assignor to Canfield Rubber Company, Bridgeport, Conn. Dress-shield	338,744	Mar. 30	2550	674	34	1411
Hiscott, Alva J., assignor to Canfield Rubber Company, Bridgeport, Conn. Dress-shield	338,745	Mar. 30	2551	674	34	1411
Hiscox, Freeman. (See Peck, Homer P. K., assignor.)						
Histed, Thaddeus C., Cherry Vale, Kans. Fence-wire tightener	344,576	June 29	2560	662	35	1501
Hitchcock, Charles A., *et al.* (See Burnley, William, assignor.)						
Hitchcock, Charles N., Stockton, Cal. Steam-boiler	352,825	Nov. 16	1517	408, 409	37	757
Hitchcock, Daniel W., Oskaloosa, Iowa. Coffee or peanut roaster	337,403	Mar. 9	700	183	34	1061

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hitchcock, Edward A. (See Smith and Hitchcock.)						
Hitchcock, Homer S., assignor to A. H. Merriman, Meriden, Conn. Clutch and brake for power-presses	351,438	Oct. 26	1930	503	37	369
Hitchcock Manufacturing Company. (SeeAtely, Shepard W., assignor.)						
Hitchcock, Peter M., Cleveland, Ohio. Operating gas-wells	336,317	Feb. 16	1778	465	34	769
Hitchcock, Robert, Watertown, N. Y. Forced-draft lamp	345,900	July 20	1580	408	36	297
Hitchcock, William F. (See Wright and Hitchcock.)						
Hitchcock, William H., Jr., and H. A. Winternight, Philadelphia, Pa. Paper-bag holder	341,806	May 11	1146	304	35	729
Hitchings, Charles E., New York, N. Y. Transom-lifter	340,716	Apr. 27	2316	610	35	432
Hitchings, Charles E., New York, N. Y. Hot-water heating apparatus	353,138	Nov. 23	1972	527	37	852
Hitt, Adrian, assignor of one-half to L. T. Everett, Jersey City, N. J. Knob-lock	354,472	Dec. 14	1190	319	37	1231
Hitt, Lewis L., Ringgold, Ga. Rim for wheels	342,095	May 18	1555	416	35	813
Hittle, Harry. (See Davenny, James E., assignor.)						
Hix, Albert E., Sycamore, Ill. Adding-machine	354,789	Dec. 21	1665	440	37	1324
Hoadley, George E. (See Hoyt, Abram G., assignor.)						
Hoadley, Thomas, Duncan, Ill. Grain-door attachment for railway-cars	341,910	May 18	1298	347	35	766
Hoagland, John B., assignor of one-half to W. B. Shefield, Nashville, Tenn. Metallic shingle	349,095	Sept. 14	774	197	36	1192
Hoagland, Mahlon, Jr., Rockaway, N. J. Ore-crusher	342,870	June 1	136	33	35	1030
Hoagland, William. (See McCallister and Hoagland.)						
Hoak, Amos, Millersville, Pa. Velocipede	341,911	May 18	1299	347	35	766
Hoard, Frederick R. (See Hoard, John W., and F. R.)						
Hoard, John W. and F. R., Providence, R. I. Paint and varnish	334,019	Jan. 12	717	.....	34	142
Hoard, John W. and F. R., Providence, R. I. Insulating and protecting electric wires and cables	342,694	May 25	2414	.....	35	977
Hoard, John W. and F. R., Providence, R. I. Apparatus for oxidizing drying-oils and other liquids	353,358	Nov. 30	2278	608	37	916
Hobart, Charles P. (See Craig, Alvin M., assignor.)						
Hobart, Joseph, Nordhoff, Cal. Almond-huller	353,857	Dec. 7	291	77	37	1060
Hobbie, James G., *et al.* (See Stiles, Sidney L., assignor.)						
Hobbs, Brockunier & Co. (See Leighton and Russell, assignors.)						
Hobbs, Joseph D., Joliet, Ill. Governor	336,318	Feb. 16	1780	465 / 466	34	769
Hobbs, Joseph D., Joliet, Ill. Stuffing-box gland	341,330	May 4	508	140	35	597
Hobbs, Julius C., Hobbon, N. C. Rein-ring	340,784	Apr. 27	2406	634	35	450
Hobbs, Marmaduke W., Richmond, Ind. Inhaler	346,477	Aug. 3	37	9	36	467
Hobbs, Marmaduke W., Richmond, Ind. Inhaling device	353,220	Nov. 23	2084	558	37	874
Hobson, William H., Lamonte, Mo. Harrow attachment for cultivators	349,795	Sept. 28	1736	448	36	1393
Hochstadt, Carl, assignor to Marder, Luse & Co., Chicago, Ill. Type-casting mold	336,483	Feb. 16	2004	525	34	810
Hochstadt, Carl, P. Wenzel, and H. Heinebach, Chicago, Ill. Mold for casting type	352,869	Nov. 16	1575	425	37	768
Hochstadt, Carl, P. Wenzel, and H. Heinebach, Chicago, Ill. Mold for casting type	354,060	Dec. 7	593	161 / 162	37	1114
Hockenberry, Abraham S. (See Hockenberry, John A. and A. S.)						
Hockenberry, John A. and A. S., Oakwood, Ill. Motor for pumps	353,063	Nov. 23	1863	503	37	830
Hocking, Henry, Liverpool, county of Lancaster, England. Apparatus for condensing and cooling	342,871	June 1	137	33	35	1030
Hocking, James, Denton, Nebr. Scraper	354,862	Dec. 21	1759	465	37	1343
Hocking Valley Manufacturing Company. (See Kissner and Gromme, assignors.)						
Hodgen, Samuel P., Pittsfield, Ill. Cheese-cutter	355,081	Dec. 28	2073	545	37	1412
Hodges, Frederick H., Newport, R. I. Banjo tail-piece	349,308	Sept. 21	1042	266	36	1253
Hodges, George H., assignor to himself and T. Lonergan, Canton, Mass. Lappet-loom	343,316	June 8	790	197 / 198	35	1159
Hodges, Harlan, Keota, Iowa. Grain weighing and delivering apparatus	338,638	Mar. 23	2377	626	34	1375
Hodges, Pliny F., Minneapolis, Minn. Grain-binder	344,964	July 6	225	58	36	41
Hodges, Samuel H., Parish of Street, county of Somerset, England, assignor of one-third to G. E. Barnard, Lynn, Mass. Tree for boots or shoes	333,630	Jan. 5	171	47	34	34
Hodges, Samuel H., Parish of Street, county of Somerset, England, assignor of one-half to G. E. Barnard, Lynn, Mass. Paper-making machine	335,030	Jan. 26	2139	569	34	416
Hodgetts, Christopher, Detroit, Mich. Manufacture of car-coupling links	339,412	Apr. 6	426	104 / 105	35	80
Hodgkins, William A., Lawrence, Mass. Steam-generator	334,950	Jan. 26	2023	540	34	396
Hodgkinson, James, and J. H. Dewhurst, Manchester, county of Lancaster, England. Gas-engine	347,603	Aug. 17	1580	420	36	773
Hodgman, Willis K. (See Huber and Hodgman.)						
Hodgman, Willis K., Taunton, Mass. Under guide for printing-machines	340,785	Apr. 27	2407	634	35	450
Hodgson, George, Conklin Station, N. Y. Indicator for steam-boilers	344,905	July 6	155	39	36	28
Hodgson, James S., Brooklyn, N. Y. Machine for caning chair-bottoms	342,963	June 1	266	69	35	1054
Hodgson, John G. (See Norton and Hodgson.)						
Hodsden, William W., Smithfield, Va. Barrel-cover	350,247	Oct. 5	205	59	37	43
Hodson, George, Bradford, Pa. Piston for deep-well pumps	337,496	Mar. 9	852	215	34	1085
Hoe & Co., R. (See Crowell, Luther C., assignor.)						
Hoedemaker, John A., and G. W. O'Harra, assignors of one-half to D. O. Roberts, and F. S. Hillhouse, Kalamazoo, Mich. Photographic shutter	340,213	Apr. 20	1601	405	35	299
Hoefer, Hermann, and G. Blechschmidt, La Salle, Ill. Hub for vehicle-wheels	347,040	Aug. 10	772	206	36	616
Hoeffner, Louis J., deceased, Boston, Mass., M. T. Hoeffner, administratrix. Piano-forte	350,248	Oct. 5	206	59	37	43
Hoeffner, Mary T., administratrix. (See Hoeffner, Louis J.)						
Hoeft, Rudolph, Chicago, Ill. Vehicle-spring brace	341,242	May 4	380	104 / 105	35	575
Hoehle, Christian, Philadelphia, Pa. Screw-propeller	342,011	May 18	1421	379	35	787
Hoehn, Hermann F., *et al.* (See Wheeler, Clark W., assignor.)						
Hoekstra, Sjoerd G., Sheboygan, Wis. Horse-power	334,074	Jan. 12	804	220	34	157
Hoelzel, Phillip, *et al.* (See Rogers, William, assignor.)						
Hoepfner, Henry J., assignor to himself, M. Poston, and G. B. Blazer, Nelsonville, Ohio. Eaves-trough hanger	346,655	Aug. 3	259	71	36	511
Hofele, Ferdinand W., New York, assignor to E. S. Allen, Larchmont, N. Y. Folding fire-escape ladder. (Reissue)	10,726	May 18	1859	491 / 492	35	869
Hoff, Edward P., *et al.* (See Stepp, John P., assignor.)						
Hoffinger, Julian. (See Helwig, Arthur, assignor.)						
Hoffman, Harvey H., New York, assignor to Brown & Brown, Rochester, N. Y. Circuit-closer	343,372	June 8	893	225	35	1177
Hoffman, Henry C. (See Hough and Hoffman.)						
Hoffman, Henry C. (See Putnam and Hoffman.)						
Hoffman, Horace J., Milwaukee, Wis. Case for holding blank forms	348,015	Aug. 24	2186	582	36	892
Hoffman, Jacob P., Pittsburg, Kans. Sulky-harrow	352,244	Nov. 9	762	203	37	605
Hoffman, John W., Creston, Ohio. Work-box	349,096	Sept. 14	776	197	36	1192

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Hoffman, John W., Pullman, Ill. Burglar-alarm	351,772	Nov. 2	61	16	37	470
Hoffman, John W., Pullman, Ill. Galvanic battery	352,324	Nov. 9	868	234	37	626
Hoffman, Joseph, Hoboken, N. J. Manufacture of tubes	343,584	June 15	1198	301	35	1238
Hoffman, Ross J., Binghamton, N. Y. Steam-actuated damper-regulator	347,799	Aug. 24	1872	500	36	835
Hoffman, William M., assignor to Farrar & Trefts, Buffalo, N. Y. Fleshing and unhairing machine	335,197	Feb. 2	157	40	34	469
Hoffman, William M., assignor to Farrar & Trefts, Buffalo, N. Y. Putting-out and striking-out machine for hides or skins	335,198	Feb. 2	158	41	34	469
Hoffmann, Meinhard, and A. Weinberg, Mainkur, near Frankfort-on-the-Main, assignors to L. Cassella & Co., Frankfort-on-the-Main, Germany. Naphthol-black color compound	345,901	July 20	1582	.....	36	297
Hoffmeister, Louis C., Philadelphia, Pa. Creeper for boots or shoes	334,381	Jan. 12	1256	339	34	211
Höfinghoff, Emil, Barmen, Prussia, Germany. Piano-forte	353,453	Nov. 30	2423	647	37	944
Hofmann, Fredrick P., Lima, Ohio. Combined envelope and letter-sheet	338,746	Mar. 30	2552	674	34	1412
Hofmeier, Julius, Vienna, Austria-Hungary. Water-proof material for binding leather or cloth or for leather for decorating, &c	340,314	Apr. 20	1750	.....	35	325
Hogan, John. (See Vollrath and Hogan.)						
Hogan, John, St. Louis, Mo. Reclining-chair	335,815	Feb. 9	1029	272	34	632
Hogan, John, St. Louis, Mo. Adjustable head-rest for chairs	342,830	June 1	79	20	35	1021
Hogan, William, Renovo, Pa. Spark arrester and consumer	349,796	Sept. 28	1736	448	36	1393
Hogan, William F., San Francisco, Cal. Turning journals of crank-shafts	339,776	Apr. 13	998	246	35	182
Hoge, Harriet H., Butte City, Mont. Ter. Machine for stretching and smoothing embroidered and other fabrics	344,577	June 29	2561	663	35	1502
Hoge, Thomas C. (See Bird, James R., assignor.)						
Hogeboom, Franklin R., and G. O. Woolcocks, Brooklyn, N.Y. Heel-plate for boots or shoes	333,522	Jan. 5	36	10	34	9
Hogeland, Israel, assignor of one-half to G. P. Anderson, Indianapolis, Ind. Apparatus for forming and drying barrels	348,906	Sept. 7	499	132	36	1139
Hogen, Andrew C., Cleveland, Ohio. Apparatus for clarifying molten metal	336,236	Feb. 16	1670	434	34	749
Hogg, James. (See Rose, Albert W., assignor.)						
Hoggatt, Jabesh H., Lynn, Ind. Neck-yoke	347,604	Aug. 17	1581	420	36	774
Hogland, John. (See Olson and Hogland.)						
Hohenstein, Archie G. (See Buckingham and Hohenstein.)						
Hohenstein, Hugo, New York, N. Y. Lamp-shade holder	342,012	May 18	1422	380	35	788
Hohmeier, Philip. (See Sims and Hohmeier.)						
Hohneck, Elise. (See Hohneck, Ernst and E.)						
Hohneck, Ernst and E., St. Paul, Minn. Carpet-fastener	335,925	Feb. 9	1188	316	34	660
Hoisington, David B., McPherson, Kans. Harrow	354,790	Dec. 21	1665	440	37	1324
Hoit, Charles W., Sacramento, Cal. Grafting-tool	353,420	Dec. 14	1103	299	37	1217
Hoke, Abraham, assignor of one-half to J. W. Hoke, Union City, Ind. Draw-hoop	341,845	May 11	1205	323	35	741
Hoke, Frank P., Avon, Pa. Corn-roaster	336,237	Feb. 16	1671	435	34	749
Hoke, J. W. (See Hoke, Abraham, assignor.)						
Hoke, Quinton J., assignor of one-half to T. S. Jefferys, Yorkville, S. C. Spark-extinguisher	339,553	Apr. 6	652	158	35	117
Holberton, Wakeman, Hackensack, assignor to C. F. Imbrie, Jersey City, N. J. Artificial fly	341,331	May 4	509	140	35	597
Holbrook, Benjamin, and C. E. Norcott, Chicago, Ill.; said Norcott assignor to said Holbrook. Smoke and steam escape for heating apparatus	349,097	Sept. 14	777	197	36	1193
Holbrook, Byron, assignor of one-half to J. Cryderman, Milwaukee, Wis. Bark-cutter	351,178	Oct. 19	1544	404	37	296
Holbrook, Charles E., assignor of one-half to H. M. Stevens and A. E. Dewey Watertown, N. Y. Sheet-piling attachment for printing-machines	348,123	Aug. 24	2335	627	36	921
Holbrook, Frank B., *et al.* (See Jeffrey and Liver, assignors.)						
Holbrook, Giles J., Jersey City, N. J. Mustard toy	337,497	Mar. 9	852	216	34	1086
Holbrook, Silas W., Newburg, N. Y. Starching-machine	345,137	July 6	471	120	36	86
Holbrook, Walter A., Milwaukee, Wis. Blindway for windows	344,527	June 29	2502	645	35	1489
Holbrook, Walter A., Milwaukee, Wis. Sliding blind	352,751	Nov. 16	1419	383	37	740
Holbrook, Walter A., Milwaukee, Wis. Fixture for sliding blinds	353,858	Dec. 7	293	77	37	1060
Holbrook, Walter A., Milwaukee, Wis. Spring-strip for inside blinds	355,167	Dec. 28	2198	580	37	1437
Holbrook, Walter A., Milwaukee, Wis. Inside blind	355,168	Dec. 28	2200	580	37	1437
Holck, Charles F., Laporte City, Iowa. Draft-equalizer	351,917	Nov. 2	277	76	37	508
Holcomb, Fred A. (See Chase, John W. assignor.)						
Holcomb, Fred A., Grand Rapids, Mich. District-telegraph signal-box	335,701	Feb. 9	864	228	34	601
Holcomb, William H., Coral, Mich. Seeder	355,082	Dec. 28	2074	545	37	1413
Holcombe, Alfred G., assignor to Equitable Electric Company, New York, N. Y. Electrical call or signaling apparatus	336,643	Feb. 23	2228	581	34	855
Holcombe, Alfred G., assignor to Equitable Electric Company, New York, N. Y. Electrical communicating system for hotels	336,809	Feb. 23	2449	643	34	897
Holcombe, Alfred G., assignor to Equitable Electric Company, New York, N. Y. Reverse-current interceptor for electric circuits	343,373	June 8	894	225	35	1177
Holcombe, Alfred G., assignor to Equitable Electric Company, New York, N. Y. Electrical communicating system	343,374	June 8	896	225 226	35	1178
Holden, George R., Michigan City, Ind., assignor to Warren Featherbone Company, Chicago, Ill. Machine for winding blades or cords	351,638	Oct. 26	2236	578 579	37	427
Holden, George R., Michigan City, Ind., assignor to Warren Featherbone Company, Chicago, Ill. Machine for winding fibers to form strands	352,088	Nov. 2	521	139	37	557
Holden, Harry, R. G. Brooke, and T. H. White, Salford, county of Lancaster, England. Injector	344,480	June 29	2427	624 625	35	1476
Holden, L. E., *et al.* (See Buckley, William F., assignor.)						
Holden, William, Baldwinsville, Mass. Stool and seat	335,927	Feb. 9	1190	317	34	661
Holdsworth, John W., assignor of one-half to R. Dodsworth, St. Louis, Mo. Insulating-clamp for electric wires	350,365	Oct. 5	353	102	37	71
Holdsworth, John W., and J. B. Foley, St. Louis, Mo. Spring-clasp	338,526	Mar. 23	2227	584	34	1350
Holdsworth, Nathan B., Spencerville, Ohio. Automatic railway signal	354,137	Dec. 14	719	193	37	1144
Holdsworth, Thomas, Elyria, Ohio. Combined eraser and knife	336,112	Feb. 16	1458	384	34	714
Holgate, Jacob B., Burnley, county of Lancaster, England. Dust-collector	345,508	July 13	991	251	36	184
Holland, Charles A., Shoe Heel, N. C. Animal-trap	351,510	Oct. 26	2042	530	37	392
Holland, Daniel T., and W. J. Doban, Troy, N. Y. Lounge	350,589	Oct. 12	694	187	37	132
Holland, Dwight, *et al.* (See Barrett, Sidney H., assignor.)						
Holland, Harold, Lynn, Mass. Patten	334,383	Jan. 12	1257	339	34	244
Holland, Harold, Lynn, Mass. Device for hitching horses	343,993	June 22	1748	450	35	1347
Holland, Harold, Lynn, Mass. Hub-runner for carriages	344,578	June 29	2563	663	35	1502
Holland, Harold, Lynn, Mass. Hub-runner	344,579	June 29	2564	663	35	1502
Holland, Harold, Lynn, Mass. Ice-creeper	346,286	July 27	2115	544	36	405
Holland, Harold, Lynn, Mass. Horseshoe	349,044	Sept. 14	698	178	36	1170
Holland, James W., Pomeroy, Wash. Ter. Sulky gang-plow	352,920	Nov. 23	1649	443	37	792
Holland, John, Cincinnati, Ohio. Fountain-pen	351,033	Oct. 19	1345	353	37	253

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Holland, John J. (See Beck and Holland.)						
Holland, John P., Brooklyn, N. Y. Hydrocarbon-engine	337,000	Mar. 2	157	42, 43	34	953
Holland, Robert M., Philadelphia, Pa. Road-bed or rail support for railways	341,575	May 11	846	225	35	670
Holland, Timothy, Troy, N. Y. Lubricator	342,358	May 25	1936	511	35	890
Holland, William. (See Dodd, Union, assignor.)						
Holland, Willis A., Lewisville, Tex. Seed-planter	353,359	Nov. 30	2280	609	37	917
Holle, Gustav E. (See Fox and Holle.)						
Holley, Joseph, Brooklyn, N. Y. Clasp for shoes or other wearing-apparel	339,179	Apr. 6	83	24	35	18
Hollen, James H., Lansingburg, N. Y. Mixed paint	341,576	May 11	847	.....	35	670
Hollenbeck, Frank A., Syracuse, N. Y. Knob attachment	348,494	Aug. 31	2870	772	36	1028
Hollenberger, John A., assignor of one-fourth to T. Schlosser, Hagerstown, Md. Door-latch	336,810	Feb. 23	2453	643	34	898
Holler, John M., Albany, N. Y. Tedder	336,319	Feb. 16	1781	466	34	769
Hollerith, Herman, St. Louis, Mo. Electro-magnetically-operated air-brake for railway-cars	334,020	Jan. 12	719	196, 197	34	142
Hollerith, Herman, St. Louis, Mo. Electro-magnetically-operated air-brake for railway-cars	334,021	Jan. 12	723	198	34	143
Hollerith, Herman, St. Louis, Mo. Electro-magnetically-operated air-brake for railway-cars	334,022	Jan. 12	726	198	34	143
Hollerith, Herman, and S. G. Metcalf, New York, N. Y. Apparatus for corrugating metal tubing	349,718	Sept. 28	1627	420	36	1372
Holley, George W., Ithaca, N. Y. Manufacture of paint	349,885	Sept. 28	1858	.....	36	1418
Holley, William W., Tchula, Miss. Pile-driver	342,096	May 18	1556	416	35	813
Hollidge, George H., Tacoma, Wash. Ter. Pie-plate lifter or culinary utensil	346,287	July 27	2116	544	36	405
Hollings, J. Charles. (See Rouse, John H., assignor.)						
Hollingsworth, Albert, Shawnee, Kans. Combined clod-crusher, stalk-cutter, marker, and rake	335,926	Feb. 9	1189	316	34	660
Hollingsworth, Cyrus C., and F. Broyles, Knob, Va. Bag-holder	344,738	June 29	2774	718	35	1541
Hollingsworth, Henry S. (See Dixon, Henry M., assignor.)						
Hollingsworth, John W., Los Angeles, Cal. Cuff-hasp	351,773	Nov. 2	62	16	37	470
Hollingsworth, Joseph, assignor of one-half to S. Witkowski, Kilbourne, La. Cotton-hoeing machine	347,605	Aug. 17	1582	420	36	774
Hollingsworth, Luther R., Emmet, Ark. Instrument for measuring lengths, grades, and directions of lines	349,590	Sept. 21	1441	371	36	1331
Hollis, Alonzo D. (See Benson and Hollis.)						
Hollis Spring Company. (See Moore, Hollis W., assignor.)						
Hollister, Elisha S., Bristol, Conn. Polishing-machine	344,835	July 6	44	11	36	9
Holloway, Charles T., Baltimore, Md. Chemical fire-extinguisher	347,606	Aug. 17	1583	421	36	774
Holloway, Jeremiah. (See Reed and Holloway.)						
Holloway, Joseph C., Sr., Eddyville, Ky. Vehicle-hub	347,426	Aug. 17	1321	352	36	724
Holloway, Joseph C., Sr., Eddyville, Ky. Hub	347,427	Aug. 17	1322	352	36	724
Holloway, Lewis W. (See Dickerson, William M., assignor.)						
Holloway, Lewis W., Indianapolis, Ind. Dust-arrester	336,238	Feb. 16	1672	435	34	749
Hollwede, Charles, assignor to C. Hollwede, St. Louis, Mo. Pen-holder	336,644	Feb. 23	2230	582	34	855
Hollwede, Charlotte. (See Hollwede, Charles, assignor.)						
Holly, Carlos, Lockport, N. Y. Milling-tool	346,103	July 27	1853	478	36	356
Holly, John, Rouseville, Pa. Tube-clamp for oil-wells	348,907	Sept. 7	500	132	36	1139
Holman, Ezekiel, Sandy, Utah. Sword-cane	350,249	Oct. 5	207	59	37	43
Holman, George F. W. (See Yale, Holman, and Barnette.)						
Holman, Sidney W., Orange Factory, N. C. Cop-winding machine	340,315	Apr. 20	1751	446	35	326
Holman, Thomas H., Newark, Ohio. Vehicle-platform gear	342,695	May 25	2416	639	35	977
Holmes, Alba L., Grand Haven, Mich. Ball-and-socket joint for water and gas pipes	346,478	Aug. 3	38	10	36	467
Holmes, Albert B., Salem, Mass. Window-casing	349,995	Sept. 28	2004	518	36	1445
Holmes, Alonzo J., Saratoga Springs, N. Y. Culinary tongs	345,846	July 20	1508	391	36	283
Holmes, Benjamin F., assignor to S. F. Pierson, trustee, New York, N. Y. Stock-car	343,956	June 15	1694	434	35	1330
Holmes, Benjamin F., assignor to S. F. Pierson, trustee, New York, N. Y. Stock-car	346,439	July 27	2337	601	36	446
Holmes, Booth & Haydens. (See Jenkins, Nicholas, assignor.)						
Holmes, Booth & Haydens. (See McGill, George W., assignor.)						
Holmes, Booth & Haydens. (See Noé, William R., assignor.)						
Holmes, Booth & Haydens. (See Rigney and Wolff, assignors.)						
Holmes, Britain. (See Holmes, Edward and B.)						
Holmes, Edward and B., Buffalo, N. Y. Sugar-cane planter	335,129	Feb. 2	43	12	34	448
Holmes, Edward and B., Buffalo, N. Y. Combined cart and sugar-cane planter	347,800	Aug. 24	1873	500	36	835
Holmes, George A., *et al.* (See Oliver, Reuben W., assignor.)						
Holmes, George W., Huntington, Ind. Fence	353,859	Dec. 7	294	77	37	1060
Holmes, John M., Glens Falls, N. Y. Vegetable-masher	344,046	June 22	1827	469	35	1360
Holmes, Moses M., Gower, Mo. Lister corn-planter	337,156	Mar. 2	362	95	34	993
Holmes, Nathan L., Racine, Wis. Circle-iron for wagons	337,404	Mar. 9	703	183	34	1062
Holmes, Nathan L., Racine, Wis. Wagon-axle	343,272	June 8	725	181	35	1147
Holmes, Nathan L., Racine, Wis. Wagon-stake	343,273	June 8	728	181	35	1147
Holmes, Nathan L., Racine, Wis. Wagon-hub	343,274	June 8	730	181, 182	35	1147
Holmes, Philip H., Gardiner, Me. Turbine water-wheel	341,577	May 11	848	225, 226	35	671
Holmes, Robert, *et al.* (See Rowe, Holmes, and Wells.)						
Holmes, Robert E. L., assignor of one-half to S. T. Johnston, St. Louis, Mo. Device for overcoming dead-centers	351,323	Oct. 19	1731	455	37	329
Holmes, Samuel, *et al.* (See Baldwin, Chester M., assignor.)						
Holmes, William, West Salem, Ohio. Sieve	339,056	Mar. 30	2994	792, 793	34	1490
Holmgreen, Julius H., San Antonio, Tex. Press	335,816	Feb. 9	1032	272	34	633
Holroyd, Manchester, county of Lancaster, England. Stop-motion mechanism for doubling-machines	349,939	Sept. 28	1924	498	36	1430
Holroyd, John. (See White, Thomas H., assignor.)						
Holst, Hans A., Helena, Mont. Ter. Air and water tight threshold for doors	350,931	Oct. 19	1169	311	37	227
Holstein, George, Spuyten Duyvil, N. Y. Die for cutting screws	350,366	Oct. 5	354	102	37	72
Holt, Albert T., Brooklyn, assignor to R. A. Loewenthal and A. G. Morganstern, New York, N. Y. Hose	334,951	Jan. 26	2024	540	34	396
Holt, Arthur J., deceased. (F. A. Holt administratrix,) Grand Rapids, Mich. Multiple-series system of electrical distribution	340,717	Apr. 27	2317	610	35	433
Holt, Frances A., administratrix. (See Holt, Arthur J.)						
Holt, George C., Hartford, Conn. Letter opener	337,680	Mar. 9	1074	277	34	1126
Holt, Hiram. (See Weymouth and Holt.) (Reissue.)						
Holt, Horace, Brooklyn, N. Y., assignor to J. F. Tenney, Chicago, Ill. Printing-stamp	337,331	Mar. 2	604	159	34	1038

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Holt, Mary J., San Francisco, Cal. Portable book-holder, &c	346,547	Aug. 3	123	33	36	483
Holt, Noah W., assignor to G. T. Smith Middlings Purifier Company, Jackson, Mich. Flour-bolt	335,454	Feb. 2	508	132, 133	34	532
Holt, Noah W., assignor to Acme Dust Collector and Wheat Cleaning Company, Jackson, Mich. Dust-collector	338,639	Mar. 23	2379	626, 627	34	1375
Holt, Noah W., assignor to Acme Dust Collector and Wheat Cleaning Company, Jackson, Mich. Dust-collector	347,243	Aug. 10	1055	282, 283	36	667
Holt, O. G. (See Tasker, Stephen P. M., assignor.)						
Holt, Oliver G., Louisville, Ky. Rivet	340,117	Apr. 20	1448	366	35	291
Holt, Robert B., and I. N. Walton, Allensville, Ky. Device for converting reciprocating into rotary motion	335,702	Feb. 9	866	228, 229	34	602
Holt, Samuel E., Catskill, and E. Aldrich, New York, N. Y. Roof-seaming machine	353,946	Dec. 7	428	117	37	1084
Holt, Selden W., assignor of two-thirds to F. Brown and H. E. Shaw, Lowell, Mass. Picker-staff check for looms	347,801	Aug. 24	1875	500	36	836
Holton, Edward T., The Plains, Va. Cattle-pen	337,681	Mar. 9	1075	277, 278	34	1126
Holtzer, Charles W., Brookline, Mass. Electric gas-lighting burner	338,747	Mar. 30	2558	674	34	1412
Holtzer, Charles W., Brookline, Mass. Electric gas-lighting apparatus	338,748	Mar. 30	2554	675	34	1412
Holtzer, Charles W., Brookline, Mass. Watchman's electric time-recorder	342,013	May 18	1423	380	35	788
Holtzman, James O., Beaver Creek, Md. Feed-cutter	336,320	Feb. 16	1782	466	34	769
Holtzmann, Philip, and R. Mayer, New York, N. Y. Portable steam-boiler	336,113	Feb. 16	1458	384	34	715
Holway, Alvah W., Boston, Mass. Medicated lozenge	339,591	Sept. 21	1442	.....	36	1331
Holyoke Envelope Company. (See Ball, James, assignor.)						
Holz, Fred, and G. A. Mueller, Anderson's Ferry, assignors to Cincinnati Screw and Tap Company, Cincinnati, Ohio. Universal head for milling-machines	333,631	Jan. 5	172	47, 48	34	34
Holzmark, Isaac, Kansas City, Mo. Apparatus for use in laundering purposes	343,636	June 15	1265	318, 319	35	1250
Homan, Robert W., Brooklyn, N. Y., assignor to Farren Brothers Company, of Connecticut. Spring bed-bottom	353,360	Nov. 30	2281	609	37	917
Homan, William, New York, N. Y. Advertising-circular	339,889	Apr. 13	1141	284	35	210
Homan, William, New York, N. Y. Reply postal-card	339,890	Apr. 13	1142	284	35	211
Homan, William, New York, N. Y. Advertising-card	354,138	Dec. 14	720	193	37	1145
Homan, William C., Middletown, Conn. Call-bell	337,157	Mar. 2	363	95	34	993
Home, Alvoro M. D., Baltimore, Md. Tuning-gage for stringed instruments	341,846	May 11	1206	323	35	741
Home Gas and Oil Stove Company. (See McConnell, Hugh, assignor.)						
Homero, Paul, Trieste, Austria-Hungary. Medicinal tea	333,632	Jan. 5	176	.....	34	35
Homman, Andrew J., *et al.* (See Smith, Samuel, assignor.)						
Hommel, Joseph M., Detroit, Mich. Window-screen	346,916	Aug. 10	602	162	36	584
Homsher, George W., Dublin, Ind. Wire-fence machine	352,505	Nov. 9	1089	293	37	670
Honegger, Emil, assignor to himself and A. Stapfer, Union, N. J. Shuttle-box-operating mechanism for looms	350,307	Oct. 5	274	78, 79	37	56
Honeycutt, John T., Vancouver, Wash. Ter. Automatic brake	334,384	Jan. 12	1258	340	34	251
Honeycutt, John T., Pemper County, Miss. Variable vernier	342,097	May 18	1556	416	35	813
Honeycutt, John T., New Brunswick, N. J. Linear scale	346,368	July 27	2326	571	36	426
Honeycutt, John T., New Brunswick, N. J. Shoe-fastening	351,053	Oct. 19	1374	360	37	263
Honigmann, Moritz, Aix-la-Chapelle, Germany. Fireless steam-engine	337,062	Mar. 2	296	63	34	969
Honigmann, Moritz, Aix-la-Chapelle, Germany. Driving steam-engines	340,718	Apr. 27	2319	610, 611	35	433
Honiss, William H. (See Lorenz and Honiss.)						
Honiss, William H., Hartford, Conn., assignor to F. W. Leinbach and C. A. Wolle, Bethlehem, Pa. Paper bag	333,523	Jan. 5	37	10, 11	34	9
Honiss, William H., Hartford, Conn., assignor to F. W. Leinbach and C. A. Wolle, Bethlehem, Pa. Making paper bags	352,921	Nov. 23	1651	444	37	792
Honiss, William H., Hartford, Conn., assignor to F. W. Leinbach and C. A. Wolle, Bethlehem, Pa. Paper bag	353,307	Nov. 30	2299	591, 592	37	904
Honiss, William H., Hartford, Conn., assignor to F. W. Leinbach and C. A. Wolle, Bethlehem, Pa. Paper bag	353,308	Nov. 30	2210	592	37	904
Honywood, Thomas, Horsham, county of Sussex, England. Nature-printing	339,057	Mar. 30	2995	.....	34	1491
Hood, Charles L. (See Pierce, Seymour, assignor.)						
Hood, Cornelius, Chicago, Ill. Wash-board rubber	337,834	Mar. 16	1282	332	34	1169
Hood, Cyrus S., Corning, N. Y. Hot-air furnace	350,590	Oct. 12	692	187, 188	37	132
Hood, Gustave, Newark, N. J., assignor to D. M. Read, New York, N. Y. Fastening for hand-bag, pocket-book, and purse frames	337,682	Mar. 9	1076	278	34	1126
Hood, Gustave, Newark, N. J., assignor to D. M. Read, New York, N. Y. Lock for pocket-books	338,412	Mar. 23	2075	544	34	1322
Hood, Gustave, Newark, N. J., assignor to S. I. Knight, New York, N. Y. Lap writing-desk or portfolio	348,124	Aug. 24	2337	627	36	921
Hood, Hiram Q., Wellington, Kans. Force-pump	342,696	May 25	2417	640	35	977
Hood, John, and S. H. Reynolds, Boston, Mass. Dental vulcanizing apparatus	334,529	Jan. 19	1468	394	34	285
Hood, John, and S. H. Reynolds, Boston, Mass. Vulcanizer	341,243	May 4	381	105	35	575
Hood, Thomas S., *et al.* (See Andrews, William P., assignor.)						
Hood, Walter S., Connellsville, Pa. Water-cooler	341,244	May 4	382	105	35	576
Hooker, Horace B., assignor to S. H. Hooker, Rochester, N. Y. Manufacture of leather articles	352,752	Nov. 16	1421	384	37	740
Hooker, S. H. (See Hooker, Horace B., assignor.)						
Hooker, Thomas, Syracuse, N. Y. Door-hanger	341,007	May 4	49	13	35	514
Hooker, William D., St. Louis, Mo. Valve-movement for direct-acting engines	349,045	Sept. 14	699	179	36	1179
Hooker, William D., St. Louis, Mo. Circulation of feed-water in multitubular upright boilers	349,046	Sept. 14	701	179	36	1179
Hooker, William D., St. Louis, Mo. Double-acting pump	349,047	Sept. 14	703	179, 180	36	1179
Hooks, John H., Collierville, Tenn. Cotton-bale tie	346,917	Aug. 10	603	162	36	584
Hooper, E. James, assignor of one-half to B. H. Bateman, South Bay City, Mich. Trestle	341,847	May 11	1207	324	35	741
Hooper, Edwin, and N. S. Kellogg, Brooklyn, N. Y. Machine for curling hat-brims	351,439	Oct. 26	1931	503	37	370
Hooper, George H., assignor of one-half to E. McLoughlin, Jr., and A. Campbell, Brooklyn, N. Y. Machine for trimming the curls or rolls of hat-brims	352,690	Nov. 16	1345	363, 364	37	724
Hooper, John, assignor to Colwell Lead Company, New York, N. Y. Die for lead-presses	347,607	Aug. 17	1585	421	36	774
Hooper, Mary P. C., New York, N. Y. Device for numbering houses	335,150	Feb. 2	44	12	34	449
Hooper, William, Ticonderoga, N. Y., assignor to himself and J. R. De Lamar, Denver, Colo. Ore-concentrator	337,683	Mar. 9	1077	278, 279	34	1126
Hooper, William, Ticonderoga, N. Y., assignor to himself and J. R. De Lamar, Denver, Colo. Ore-concentrator	337,684	Mar. 9	1079	279	34	1126

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hooper, William J. (See Price, George W., assignor.)						
Hoopes, Brinton B., Avondale, Pa. Bench-dog	349,996	Sept. 28	2005	518	36	1445
Hoosier Drill Company. (See Conner, Albert C., assignor.)						
Hoosier Drill Company. (See Conner and Westcott, assignors.)						
Hooton, Harry H. (See Collins, Charles W., assignor.)						
Hoover, Abel, and R. Brown, assignors to said Hoover and W. Gamble, Miamisburg, Ohio. Harvester	348,495	Aug. 31	2871	773	36	1029
Hoover & Gamble. (See Brown, Robert, assignor.)						
Hoover, Henry H., Macy, Ind. Farm-gate	346,588	Aug. 3	172	46	36	493
Hoover, Isaac W., Milan, Ohio. Combined potato digger and separator	348,214	Aug. 31	2484	668	36	954
Hoover, John H. (See Taylor, Joseph A. D., assignor.)						
Hope, Benjamin F., Sag Harbor, N. Y. Watch-case pendant	335,455	Feb. 2	510	133	34	533
Hope, John, Jr., assignor of one-half to W. V. Daboll, Providence, R. I. Automatic switch for street-railways	351,440	Oct. 26	1934	504	37	370
Hope, John F. (See Lechler, Anthony J., assignor.)						
Hope, John T. (See Hope, Luke J. and J. T.)						
Hope, Luke J. and J. T., Kansas City, Mo. Ventilating-motor	347,709	Aug. 17	1747	465, 466	36	803
Hopedale Machine Company. (See Follansbee, George S., assignor.)						
Hopf, Carl F. (See Horn and Hopf.)						
Hopf, Carl F., Chicago, Ill. Child's crib or cradle	339,413	Apr. 6	427	105	35	80
Hopf, Carl F., assignor of two-thirds to J. C. and J. M. Horn, Chicago, Ill. Folding bed	339,414	Apr. 6	429	105	35	80
Hopkins, Alfred, Bridgeport, Conn. Heating-furnace	355,169	Dec. 28	2200	580, 581	37	1438
Hopkins & Allen Manufacturing Company. (See Boland, James, assignor.)						
Hopkins & Allen Manufacturing Company. (See Cilley, George W., assignor.)						
Hopkins, Cabel B., Louisville, Ky. Till-lock	335,456	Feb. 2	511	133, 134	34	533
Hopkins, Cabel B., Louisville, Ky. Machine for bending pipe-stems, &c	344,739	June 29	2775	719	35	1541
Hopkins, Cabel B., assignor to Hopkins & Robinson Manufacturing Company, Louisville, Ky. Money-changer	339,986	Apr. 13	1271	317, 318	35	233
Hopkins, Cabel B., assignor to himself and O. E. Robinson, Louisville, Ky. Cash resister and indicator	347,296	Aug. 10	1134	303, 304, 305	36	682
Hopkins, Charles W., Norwich, Conn. Revolver	350,367	Oct. 5	355	102	37	72
Hopkins, Floyd. (See Engel and Hopkins.)						
Hopkins, Frederick, Chicago, Ill. Barrel-vent	351,982	Nov. 2	369	100	37	527
Hopkins, Henry C., Covington, Ky. Clothes-wringer	351,179	Oct. 19	1546	405	37	296
Hopkins, Henry C., Lancaster, Pa., and R. E. Linham, assignors to Rote Automatic Brake Company, Mansfield, Ohio. Automatic car-brake	346,204	July 27	2001	516	36	383
Hopkins, Henry R., assignor to J. W. and R. C. Penfield, Willoughby, Ohio. Clay-pulverizing roller and attachment	350,744	Oct. 12	906	243	37	179
Hopkins, Herbert, and A. E. Johnson, Austin, Nev. Throttle-valve	347,041	Aug. 10	773	206	36	616
Hopkins, James M., Louisville, Ky. Machine for punching drafts and checks	340,214	Apr. 20	1603	405, 406	35	299
Hopkins, James M., Louisville, Ky. Stamp for punching checks, &c	340,316	Apr. 20	1752	446, 447	35	326
Hopkins, James R., Somerville, Mass., assignor to Boston Wooven Hose Company, Portland, Me. Combined wrench and spanner	347,042	Aug. 10	774	206	36	616
Hopkins & Robinson Manufacturing Company. (See Hopkins, Cabel B., assignor.)						
Hopkins, Sylvanus C., Boston, Mass. Folding table	336,717	Feb. 23	2327	610	34	875
Hopkins, William F., Sturgis, Dak. Ter. Alphabetical toy	346,656	Aug. 3	260	72	36	511
Hopkins, William H., assignor of one-half to F. D. Gaylord, Sodus, N. Y. Coffee or tea pot	346,044	July 20	1784	458	36	331
Hopkinson, John E., London, county of Middlesex, England. Curtain-roller	346,045	July 20	1782	459	36	331
Hopkinson, Lizzie, Frankfort, Ind. Combined embroidery-frame, easel, work-table, and desk	345,509	July 13	993	251	36	184
Hopper, Henry S., Detroit, Mich. Rotary engine	352,089	Nov. 2	523	139, 140	37	557
Hopper, Thomas C., Philadelphia, Pa. Gas-pressure governor	339,415	Apr. 6	433	106	35	81
Hoppes, John J., Springfield, Ohio. Bustle	340,317	Apr. 20	1755	447	35	326
Horack, Charles L., Brooklyn, N. Y. Automatic alarm apparatus	340,441	Apr. 20	1912	492	35	356
Horen, John, Omaha, Nebr. Lightning-arrester	339,417	Apr. 6	438	107	35	82
Horey, John, and C. Marsh, Rosendale, Wis. Seeding-machine	334,928	Feb. 9	1192	317	34	661
Horey, John, and C. Marsh, Springvale, Wis. Land-roller	353,679	Dec. 7	41	11	37	1014
Horgan, Stephen H., Jersey City, N. J., assignor to American Press Association, of New York City, Chicago, Ill., Cincinnati, Ohio, Buffalo, N. Y., and Boston, Mass. Printing-plate	341,332	May 4	510	140	35	597
Hörmann, Rudolph, Hoboken, N. J. Button	342,514	May 25	2166	573	35	929
Horn, Adolph, Chicago, Ill. Steam-generator	336,114	Feb. 16	1459	385	34	715
Horn, Jacob M., *et al.* (See Hopf, Carl F., assignor.)						
Horn, John C., *et al.* (See Hopf, Carl F., assignor.)						
Horn, John C., and C. F. Hopf, Chicago, Ill. Folding bed	337,158	Mar. 2	364	95, 96	34	994
Horn, William, Jr., Keokuk, Iowa. Water cut-off for cisterns	339,651	Apr. 13	820	202	35	151
Hornbeck, James, Des Moines, Iowa. Brick-machine	345,304	July 13	704	177, 178	36	133
Hornbostet, Ernst A., Oskaloosa, Iowa. Billiard-table leveler	338,667	Mar. 23	2423	639	34	1382
Horne, Alexander, Liverpool, county of Lancaster, England. Valve	337,498	Mar. 9	853	216	34	1066
Horne, Erastus W., North Andover, Mass. Yarn-reel	351,379	Oct. 26	1815	477	37	350
Horne, John H., Lawrence, Mass. Rag-engine for beating paper-pulp	347,043	Aug. 10	775	207	36	616
Horne, William. (See Jacobs and Horne.)						
Horne, William Y., and J. Danz, 2d, St. Paul, Minn. Ash-pit frame and door	353,221	Nov. 23	2085	558	37	874
Horner, Andrew L., *et al.* (See Scaboldt, Bert, assignor.)						
Horner, William H. (See Rensbaw and Horner.)						
Horner, William H., St. Louis, Mo. Spring fastening-key	342,014	May 18	1425	380	35	788
Horner, William H., New York, and F. Hyde, Brooklyn, assignors to United States Waterproofing Fibre Company, New York, N. Y. Composition for treating cordage	336,718	Feb. 23	2329	.....	34	875
Horner, William W., London, county of Middlesex, England, assignor of one-half to N. J. Simonds, Woburn, Mass. Machine for automatically soaking, brushing, and rinsing bottles, &c	354,061	Dec. 7	595	162, 163, 164	37	1114
Horney, Henry. (See George and Horney.)						
Hornich, William, assignor to Thalheimer Brothers, Newark, N. J. Button-making machine	340,442	Apr. 20	1914	492, 493	35	356
Hornish, Harry C., assignor of one-fourth to A. G. Tyng, Jr., and D. D. Hall, Peoria, Ill. Car-coupling	355,083	Dec. 28	2075	545	37	1413

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Horrne, Henry M., Paris, Tex. Spring socket-iron for vehicles	349,098	Sept. 14	778	197	36	1193
Horrne, Henry M., Blossom Prairie, assignor of one-fourth to J. C. Rutherford, Dowlin, Tex. Vehicle-wheel	339,180	Apr. 6	84	25	35	18
Horrne, Henry M., Paris, assignor of one-fourth to J. C. Rutherford, Dowlin, Tex. Vehicle-wheel	339,181	Apr. 6	87	25	35	18
Horrocks, Joshua, Brooklyn, N. Y. Wire fencing-picket	351,109	Oct. 19	1447	379	37	277
Horrocks, Joshua, Brooklyn, N. Y. Self-locking wire picket	351,110	Oct. 19	1448	379	37	277
Horrocks, William, Philadelphia, Pa. Spiral stairway	348,908	Sept. 7	501	133	36	1139
Horsey, John G., London, England. Machinery for making brooms and brushes	333,946	Jan. 5	614	167	34	115
Horsfall, John H. (See Bancroft and Horsfall.)						
Horstmann, William, New York, N. Y. Composition for plastering, filling, wall-ornaments, &c	345,847	July 20	1509	.....	36	283
Horton, Andy. (See Edney, Cartwright J., assignor.)						
Horton & Co. (See Poinsett, Joseph L., assignor.)						
Horton, Cornelius N., assignor to S. F. Allen, Peekskill, N. Y. Brick-machine	349,395	Sept. 21	1179	305	36	1279
Horton, Emmet, assignor to G. Wilkin, Dundee, N. Y. Crate	350,134	Oct. 5	48	13	37	12
Horton, George T., assignor of one-half to G. D. Lockhart, Winnipeg, Manitoba, Canada. Car-brake	335,521	Feb. 2	603	157	34	548
Horton, James A., Reading, Mass. Mechanical movement	341,912	May 18	1300	347, 348	35	766
Horton Manufacturing Company. (See Peters, John C. assignor.)						
Horton, Peter D., San Francisco, Cal. Slate washer and wiper	339,652	Apr. 13	821	202	35	151
Horton, Peter D., San Francisco, Cal. Toy air-gun	347,244	Aug. 10	1057	283	36	667
Horton, Ranghley, Walton, Kans. Land-roller and stalk-cutter	348,284	Aug. 31	2579	693	36	972
Hosack, Samuel G., East Saginaw, assignor of one-half to A. A. Meuth, Ann Arbor, Mich. Bench-clamp	349,099	Sept. 14	780	198	36	1193
Hosea, Lewis M., and A. Springer, Cincinnati, Ohio, assignors, by mesne assignments, to United States Torsion Balance and Scale Company, Jersey City, N. J. Molecular pivot-balance	352,753	Nov. 16	1422	384	37	740
Hoseus, Henry, Brooklyn, N. Y. Banjo	342,098	May 18	1559	416	35	814
Hosford, Chester B. (See Whiteman, Owen L., assignor.)						
Hosford, Leonard D., and J. G. Bass, Jr., Brooklyn, N. J., assignors to said Hosford. Gas-burner	341,381	May 4	575	159	35	609
Hoskins, C. P., *et al.* (See Pearson, Robert P., assignor.)						
Hoskins, Edwin J., Austin, assignor to C. P. Willard, Chicago, Ill. Steam-packing	339,100	Mar. 30	3062	810	34	1501
Hostetter, Benjamin F., and I. C. H. Gilmore, Oskaloosa, Iowa. Smoothing and polishing iron	346,814	Aug. 3	440	121	36	546
Hostetter, J. D., *et al.* (See Platt, Albert L., assignor.)						
Hotchkiss, Charles A., assignor to Ives, Blakeslee & Co., Bridgeport, Conn. Toy	339,101	Mar. 30	3063	810	34	1501
Hotchkiss & Co. (See Koerner, Alfred C., assignor.)						
Hotchkiss & Upson Company. (See Smith, Frederick A., assignor.)						
Hotchkiss, Edward S., Bridgeport, Conn. Animal-trap	355,016	Dec. 28	1980	521	37	1395
Hotchkiss, Edward S., Bridgeport, Conn. Animal-trap	355,017	Dec. 28	1981	521, 522	37	1396
Hotchkiss, Emerson M., Waterbury, Conn. Door-alarm	345,138	July 6	473	120	36	86
Hotchkiss, Chas. Robert J., Dowansville, N. Y. Governor-connection	350,250	Oct. 5	208	60	37	43
Hotz, Christoph. (See Conrad and Hotz.)						
Hotz, Christoph, Chicago, Ill. Wagon	334,385	Jan. 12	1260	340	34	241
Hotz, Christoph, and M. Conrad, Chicago, Ill. Wagon	339,416	Apr. 6	436	107	35	81
Houchin, Thomas W., C. B. Riker, and W. P. Houchin, New York, N. Y. Insect-powder distributer	335,817	Feb. 9	1033	273	34	633
Houchin, Waldo P. (See Houchin, Riker, and Houchin.)						
Houchin, Waldo P., New York, N. Y. Dual gas and spirit stove	355,268	Dec. 28	2346	617	37	1467
Houck, Frank A., Holden, Mo. Egg-beater	355,170	Dec. 28	2203	581	37	1438
Houck, Sol. J., *et al.* (See Green, George F., assignor.)						
Houckes, Friedrich W. I., *et al.* (See Raabe and Zimmermann, assignors.)						
Hough, Benjamin B., assignor of one-half to S. G. Warner, Wilmington, Del. Valve mechanism	346,657	Aug. 3	261	72	36	511
Hough, Benjamin B., assignor of one-half to S. G. Warner, Wilmington, Del. Valve-gear	346,658	Aug. 3	264	72	36	512
Hough, Romeyn B., Lowville, N. Y. Wooden card for business and other purposes	335,703	Feb. 9	868	229	34	602
Hough, William W., and H. C. Hoffman, Mound-City, Ill. Strainer and cut-off	334 386	Jan. 12	1261	340	34	241
Houghtaling, Llewellyn A., Elmira, N. Y. Car-coupling	342,797	June 1	31	9	35	1012
Houghtaling, William, assignor to E. Parmly, Bridgeport, Conn. Sewing-machine	333,947	Jan. 5	615	168	34	115
Houghton, Charles L., New Haven, Conn., and W. I. Fox, Fitchburg, Mass. Automatic safety device for railway-switches	350,198	Oct. 5	139	40, 41	37	29
Houghton, Darius, Skowhegan, Me. Wire-cutting machine	335,818	Feb. 9	1034	273	34	633
Houghton, Darius, Skowhegan, assignor to C. Colby and S. A. Dinsmore, Bingham, Me. Wire-cutter	337,159	Mar. 2	367	96	34	994
Houghton, Edward J., Peckham, county of Surrey, and T. M. Collet, Great Winchester Street, county of Middlesex, England. Reversing-gear for dynamo-electric machines	351,699	Oct. 26	2311	600, 601	37	442
Houghton, James, Waterford, Ontario, Canada. Sharpener for reaper-knives	343,030	June 1	354	92	35	1071
Houghton, Louis S., *et al.* (See McMurray, Louis, assignor.)						
Houlehan, James, Toledo, Ohio, assignor of one-half to W. A. Bunton, Boston, Mass., and seven-sixteenths to J. S. Barlow and E. E. Dwight, Toledo, Ohio. Telephony	335,522	Feb. 2	604	157	34	548
Houlehan, James, Toledo, Ohio, assignor to Railway Water Hoist Company, Chicago, Ill. Automatic apparatus for accumulating and utilizing power	347,710	Aug. 17	1748	466	36	803
Houlgate, Joshua, Fairfield, Nebr. Water-elevator	349,254	Sept. 14	984	251	36	1233
Houlf, Cyrus, assignor to A. H. Parker, Chicago, Ill. Elastic hose	335,704	Feb. 9	869	229	34	602
Hourigan, John, Galveston, Tex. Wood-working machine	347,044	Aug. 10	778	207	36	617
Housatonic Brass Corporation. (See Durand, David L., assignor.)						
House, Alonzo A. (See Stevens, Charles W., assignor.)						
House, E. L. (See Spencer, John W., assignor.)						
House, Frances M., Bridgeport, Conn. Portière ring and pin	352,992	Nov. 23	1751	470	37	810
House, Henry A. and Henry A., Jr., Bridgeport, Conn. Electro-phonetic telegraph-sounder	354,139	Dec. 14	721	194	37	1145
House, Henry A. and Henry A., Jr., Bridgeport, Conn. Door-check	354,551	Dec. 21	1313	348, 349	37	1259
House, Henry J., Camden, N. J. Burnishing-machine	353,633	Nov. 30	2693	720	37	993
House, Isaac M., Gravenhurst, assignor of three-fourths to A. R. Williams, Toronto, Ontario, Canada. Shingle-sawing machine	346,369	July 27	2227	571, 572	36	426
House, John B., Milwaukee, Wis. Broom-rack	337,767	Mar. 9	1182	308	34	1144
House, Marion R., Brooklyn, N. Y. Drawers	344,481	June 29	2431	625	35	1477
Houser, Daniel, Stockton, Cal. Harvester	354,421	Dec. 14	1115	299, 300	37	1218

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Houser, Samuel R., Upper Sandusky, Ohio. Combined roller and pulverizer	334,703	Jan. 19	1710	456	34	330
Housholder, Henry L., assignor of one-half to H. R. Baldwin, Hebron, Ill. Pipe-wrench	334 387	Jan. 12	1262	341	34	241
Houston, David H., Hunter, Dak. Ter. Photographic apparatus	355,084	Dec. 28	2077	545 / 546	37	1413
Houston, George W., and E. F. Mulkey, Savoy, Tex. Motor	349,276	Sept. 14	1008	257	36	1238
Houston, Samuel C. (See Jacobs and Houston.)						
Houtz, Edward, and A. Brown, Blunt, Dak. Ter. Plow	349,220	Sept. 14	933	239	36	1223
Houze, Luc, Meadville, Pa. Apparatus for flattening window-glass	336,855	Feb. 23	2509	662	34	909
Houze, Ulgis. (See Huidekoper, Mambourg, Houze, and Dockstader.)						
Houze, Ulgis, assignor of two-thirds to A. C. Huidekoper and L. Mambourg, Meadville, Pa. Glass-melting furnace	347,045	Aug. 10	780	207	36	617
Hover, R. E. (See Latulip, Frederick, assignor.)						
Hover, William, Freeport, Ill. Padlock	847,711	Aug. 17	1750	466	36	804
Hovey, A. N., *et al.* (See Kimball, Freddie C., assignor.)						
Hovey, Asa E., Chicago, Ill. Gripping device for cable railways	347,935	Aug. 24	2074	550 / 551	36	872
Hovey, Charles F., Springfield, Mass. Winding-up mechanism for rotary air-pumps	355,018	Dec. 28	1982	522	37	1396
Hovey, E. H., *et al.* (See Kimball, Freddie C., assignor.)						
Hovey, Edward A. A., and E. C. Phillips, Chicago, Ill., assignors to A. Erkenbrecher Company, Cincinnati, Ohio. Laundry dressing	349,648	Sept. 21	1507	.....	36	1345
Hovey, Frank A., assignor of one-half to W. L. Ramey, Madison, Nebr. Combined flour safe and sieve	345,139	July 6	474	120	36	86
Hovey, John S., Rome, N. Y. Button	338,269	Mar. 23	1872	492	34	1287
Howard, Albert C., Boston, Mass. Watchman's time-recorder	354,904	Dec. 28	1825	483	37	1367
Howard, Chafin S., Monroe, Iowa. Check-rower for corn-planters	350,591	Oct. 12	605	188	37	133
Howard, Charles H., Great Falls, N. H. Device for warping or beaming machines	349,100	Sept. 14	781	198	36	1193
Howard, Charles H., Auburn, Me., assignor to J. S. Bailey, Milford, Mass. Slasher	350,054	Sept. 28	2086	540	36	1461
Howard, Cyrus, assignor of one-third to W. W. Patrick, Pittsburg, Pa. Snow-plow	333,948	Jan. 5	616	168 / 169	34	115
Howard, Cyrus, assignor of one-third to W. W. Patrick, Pittsburg, Pa. Excavator	333,949	Jan. 5	619	169	34	116
Howard, Ebenezer, London, England. Type-writing machine	346,104	July 27	1854	479	36	356
Howard, Edward. (See Shaw, Loring D., assignor.)						
Howard, Everett R., assignor of one-half to R. W. Gates, Aurora, Ill. Smoke and gas consuming furnace	341,008	May 4	51	13	35	515
Howard, Frank B., Cedar Hall, Quebec, Canada. Article manufactured from pulp	352,993	Nov. 23	1752	470	37	810
Howard, Harlan S., Madison, Wis. Pulverizer	353,947	Dec. 7	430	117	37	1085
Howard, Henry, Boston, Mass. Metallic cross-tie for street-railways	340,118	Apr. 20	1449	367	35	271
Howard, Henry G. M., Kalamazoo, Mich. Two-wheeled vehicle	341,144	May 4	239	71	35	549
Howard, Henry G. M., Kalamazoo, Mich. Two-wheeled vehicle	351,833	Nov. 2	141	39	37	485
Howard, Henry G. M., assignor of one-half to G. W. Montgomery, Kalamazoo, Mich. Two-wheeled vehicle	352,870	Nov. 16	1577	426	37	769
Howard, Hiram. (See Child, Frank E., assignor.)						
Howard Iron Works. (See Schlenker, Erhard, assignor.)						
Howard, James. (See Bott, Joseph E., assignor.)						
Howard, James, and E. T. Bousfield, Bedford, England. Railway sleeper and chair	335,523	Feb. 2	604	157	34	548
Howard, James, and H. W. Gibbs, Bedford, county of Bedford, England. Plow	351,864	Nov. 2	196	55	37	495
Howard, James, E. T. Bousfield, and G. Gibbs, Bedford, England; said Bousfield and Gibbs assignors to said Howard. Cord-holder-operating mechanism	338,228	Mar. 16	1818	475	34	1269
Howard, John, *et al.* (See Brown, James, assignor.)						
Howard, John A. (See Thomas and Howard.)						
Howard, John W., *et al.* (See Solano, Renaldo, assignor.)						
Howard, Nicholas F. (See Thomas and Howard.)						
Howard, Orange M., Spencer, Ind. Platen printing-machine	355,171	Dec. 28	2204	582	37	1438
Howard, Robert L., Luton, county of Bedford, England. Machinery for securing corks or stoppers in bottles	342,015	May 18	1425	380 / 381 / 382 / 383	35	788
Howard, Robert L., Luton, county of Bedford, England. Machine for wiring bottles	351,054	Oct. 19	1374	360 / 361	37	264
Howard, Wilbur F., assignor to himself and D. W. O'Neil, Claremont, N. H. Brush	349,649	Sept. 21	1508	391	36	1345
Howarth, William E., St. Thomas, Ontario, Canada. Grain-separator	340,215	Apr. 20	1604	406	35	299
Howard, Willis J., *et al.* (See Eddleman, Francis N., assignor.)						
Howatson, Andrew, Lavender Hill, county of Surrey, England. Apparatus for separating solid impurities from water	344,740	June 29	2777	719	35	1541
Howe, Albert D., Coshocton, Ohio. Axle-lubricator	341,009	May 4	52	13	35	515
Howe, Charles A., Philadelphia, Pa. Cable-grip	351,983	Nov. 2	369	101	37	527
Howe, Charles S., *et al.* (See Durand, Jean B., assignor.)						
Howe, Charles S., *et al.* (See Retornat, Ernest, assignor.)						
Howe, Edward B., trustee. (See Harmon, Charles L., assignor.)						
Howe, Edward P., Northborough, assignor of one-half to J. J. Shaw and C. R. Rogers, Plymouth, Mass. Ratchet-clutch mechanism	344,528	June 29	2504	645	35	1489
Howe, Edward P., Northborough, assignor of one-half to C. R. Rogers and J. J. Shaw, Plymouth, Mass. Treadle-motion for velocipedes	344,529	June 29	2505	646	35	1489
Howe, Edward P., Northborough, assignor of one-half to J. J. Shaw and C. R. Rogers, Plymouth, Mass. Brake for tricycles	344,530	June 29	2507	646	35	1490
Howe, Edward P., Northborough, assignor of one-half to J. J. Shaw and C. R. Rogers, Plymouth, Mass. Steering device for tricycles	344,531	June 29	2509	646	35	1490
Howe, Elmer P., Boston, Mass. Injector	349,997	Sept. 28	2005	518	36	1445
Howe, Frank I., Medfield, Mass. Curry-comb	335,072	Jan. 26	2199	584	34	427
Howe, John, Lowell, Mass. Composition to be used for insulating wires	339,777	Apr. 13	998	.....	35	182
Howe, John C., assignor to J. Luther, Worcester, Mass. Lock-hinge	346,046	July 20	1783	459	36	332
Howe, John C., assignor to S. Forehand, Worcester, Mass. Revolver	353,948	Dec. 7	431	118	37	1085
Howe, Oliver I., Worcester, Mass. Boot or shoe tree foot	342,298	May 18	1829	484	35	863
Howe, Patrick, assignor to I. Fenno, R. D. Goodwin, C. M. Blake, Boston, A. K. Tolman, Newton, and H. G. Hartshorne, Wakefield, Mass. Sharpening mechanism for cloth-cutting machines	355,085	Dec. 28	2079	546	37	1413
Howe, Patrick, assignor to I. Fenno, R. D. Goodwin, C. M. Blake, Boston, A. K. Tolman, Newton, and H. G. Hartshorne, Wakefield, Mass. Cloth-cutting machine	355,086	Dec. 28	2080	546	37	1414
Howe, Robert L., Cumberland Mills, Me., assignor to S. D. Warren & Company, Boston, Mass. Paper-pulp screen	341,417	May 4	622	170	35	618
Howe, Solon G., Detroit, Mich. Car-coupling	346,370	July 27	2229	572	36	427
Howe, Solon G., Detroit, Mich. Car-coupling	350,745	Oct. 12	908	243 / 244	37	172
Howe, Thomas B., Scranton, Pa. Car-ventilator	342,099	May 18	1559	417	35	814

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Howe, Warren B., Chicago, Ill. Paraffine-coated paper box	339,418	Apr. 6	439	107	35	82
Howe, Warren B., assignor of two-thirds to I. Gavin and M. D. Knowlton, Chicago, Ill. Paraffining paper	343 375	June 8	899	226	35	1178
Howe, Warren B., and M. D. Knowlton, Chicago, Ill. Coating paper with paraffine	344,965	July 6	227	58	36	42
Howell, Frank J. (See Tyghe and Howell.)						
Howell, Frederick W., assignor to M. T. Howell, Buffalo, N. Y. Cockle-separator	346,815	Aug. 3	441	121, 122	36	546
Howell, Isaac F., Chase, Kans. Clothes-rack	346,816	Aug. 3	445	122	36	547
Howell, John H. B., Newton, N. J. Bottle and stopper	334,865	Jan. 26	1919	511	34	377
Howell, John W., *et al.* (See Dyer, Richard N., assignor.)						
Howell, John W., New Brunswick, N. J. System of electrical distribution	342,748	May 25	2497	664	35	993
Howell, John W., New Brunswick, N. J. System of electrical distribution	352,691	Nov. 16	1347	364	37	724
Howell, John W., New Brunswick, assignor to Edison Lamp Company, Harrison, N. J. Electrical indicator	339,058	Mar. 30	2999	793	34	1491
Howell, John W., assignor to C. S. Van Nuis, New Brunswick, N. J., and Dyer & Seely, New York, N. Y. Night-lamp for electric lighting systems	348,125	Aug. 24	2339	628	36	921
Howell, John W., New Brunswick, assignor to himself and F. R. Upton, Orange, N. J. Connecting and disconnecting generators for electric lighting	353,035	Nov. 23	1821	490	37	822
Howell, La Fayette P., Auburn, N. Y. Bracket for shade-rollers	341,382	May 4	576	159	35	610
Howell, Margaret T. (See Howell, Frederick W., assignor.)						
Howell, Melville L., Waushara, Kans. Device for attaching tags	352,410	Nov. 9	975	262	37	648
Howell, Silas J. (See Tyghe and Howell.)						
Howell, William H., Thorold, Ontario, Canada, assignor to W. Wilkeson, Youngstown, N. Y. Pulp-grinder. (Reissue.)	10,713	Apr. 20	2060	531	35	383
Howes, Daniel H. (See Bray, William H., assignor.)						
Howes, Frank H., East Orange, N. J. Nut-lock	341,145	May 4	239	71	35	549
Howes, Frank H., East Orange, N. J. Bolt and nut	341,146	May 4	240	72	35	549
Howes, John, Worcester, Mass. Filtering apparatus	349,101	Sept. 14	783	198	36	1194
Howes, John, Worcester, Mass. Air-filtering apparatus for tanks, cisterns, &c	350,627	Oct. 12	750	206	37	144
Howes, John, Worcester, Mass. Float-and-valve mechanism for tanks	350,628	Oct. 12	751	206	37	144
Howes, Robert C., East Orange, assignor to F. O. Matthiessen & Weichers Sugar Refining Company, Jersey City, N. J. Bone-black discharger for continuous filters	335,586	Feb. 9	697	185	34	572
Howes, Samuel H. (See Atwood and Howes.)						
Howie, William L., Eccles, England. Preventing accumulation of snow in railway-cuttings.	347,107	Aug. 10	876	232	36	634
Howland, George B., Chicago, Ill. Gate-latch	348,909	Sept. 7	502	133	36	1140
Howland, Isaac, Chicago, Ill. Hame-fastener	339,653	Apr. 13	822	202	35	151
Howland, William H., Englewood, N. J. Pulverizer	336,321	Feb. 16	1784	466	34	770
Howley, Michael P., *et al.* (See Cleveland, Erastus L., assignor.)						
Howse, Henry L., assignor of one-half to W. H. Wiester, San Francisco, Cal. Oil-stove	338,842	Mar. 30	2683	707	34	1436
Howson, Henry, Philadelphia, Pa. Drawing-board	340,914	Apr. 27	2577	679	35	480
Hoxsie, George L., Holloway, Mich. Valve-gear	335,199	Feb. 2	159	41	34	669
Hoy, Eugene, Spencerport, N. Y. Potato-digger	346,918	Aug. 10	604	162	36	585
Hoyle, Charles. (See Rose and Rein, assignors.)						
Hoyle, John V. B., Springfield, Ohio. Case for embroidery-silks	334,704	Jan. 19	1712	456	34	331
Hoyt, Abram G., Kingston, Pa., assignor of one-half to G. E. Hoadley, New Haven, Conn. Telephonic code	335,929	Feb. 9	1194	317	34	661
Hoyt Brothers & Co. (See Hoyt, Joseph M., assignor.)						
Hoyt, Charles A. (See McCorkle, Samuel B., assignor.)						
Hoyt, Charles W., New Haven, Conn. Oyster-dredge	351,264	Oct. 19	1650	433	37	315
Hoyt, Frederick J., Chicago, Ill. Railway-track crossing	341,848	May 11	1208	324	35	742
Hoyt, Gabriel P. B., Jamaica, N. Y. Cyclometer	339,891	Apr. 13	1143	284	35	211
Hoyt, James T., New York, N. Y. Paper-folder	342,100	May 18	1562	417	35	814
Hoyt, James T., New York, N. Y. Cabinet for sanitary paper	342,101	May 18	1563	417	35	814
Hoyt, James T., New York, N. Y. Printing-machine	351,265	Oct. 19	1651	434	37	315
Hoyt, Joseph M., assignor to Hoyt Brothers & Co., Lynn, Mass. Brush-holder for bottle-washing machines	337,332	Mar. 2	606	159	34	1038
Hoyt, Lucius H., Danbury, Conn. Apparatus for shaping hat-brims	338,272	Mar. 23	1874	493	34	1287
Hoyt, Lucius P. (See La Dow, Budlong, and Hoyt.)						
Hoyt, Lucius P., Aurora, Ill. Chain-feed surfacing and sizing machine	344,836	July 6	45	11, 12, 13	36	10
Hoyt, Lucius P., Aurora, Ill. Planing-machine	352,976	Nov. 23	1727	463, 464	37	805
Hoyt, Montraville, Jamaica, N. Y. Tire-heating furnace	334,952	Jan. 26	2025	540	34	396
Hoyt, William H., Stamford, Conn. Hollow ware	339,419	Apr. 6	441	108	35	82
Hubbard, Arthur O., Sauk Centre, Minn. Adjustable reclining-chair	336 115	Feb. 16	1460	385	34	715
Hubbard, Arthur O., Sauk Centre, Minn. Hammock-chair	339,182	Apr. 6	89	26	35	18
Hubbard, Charles E., Topeka, Kans. Calf-weaner	354,140	Dec. 14	723	194	37	1145
Hubbard, Charles L., *et al.* (See Kienardt, John A., assignor.)						
Hubbard, Charles W., Pittsburg, Pa. Making axes	338,270	Mar. 23	1872	492	34	1287
Hubbard, Fred W., assignor to Kilbourne & Jacobs Manufacturing Company, Columbus, Ohio. Drag-scraper	348,740	Sept. 7	279	75	36	1099
Hubbard, Fred W., assignor to Kilbourne & Jacobs Manufacturing Company, Columbus, Ohio. Wheeled scraper	354,473	Dec. 14	1192	319	37	1231
Hubbard, Fred W., assignor to Kilbourne & Jacobs Manufacturing Company, Columbus, Ohio. Wheel	354,474	Dec. 14	1191	319	37	1231
Hubbard, Frederick J. (See Sleeper and Hubbard.)						
Hubbard, George M., assignor to W. & E. T. Fitch, New Haven, Conn. Whip-socket	335,524	Feb. 2	605	157	34	548
Hubbard, George M., assignor to W. & E. T. Fitch, New Haven, Conn. Snap-hook	347,108	Aug. 10	877	232	36	634
Hubbard, George M., assignor to W. & E. T. Fitch, New Haven, Conn. Snap-hook	350,055	Sept. 28	2087	540	36	1461
Hubbard, George M., assignor to W. & E. T. Fitch, New Haven, Conn. Bridle-bit	354,475	Dec. 14	1193	320	37	1231
Hubbard, John U., Oakland, Me. Device for making claw-hatchets	339,059	Mar. 30	3001	793	34	1491
Hubbard, Moses G., Philadelphia, Pa. Automatic unwinding attachment	347,802	Aug. 24	1876	500	36	836
Hubbard, Moses G., Philadelphia, Pa. Automatic unwinding attachment	347,803	Aug. 24	1877	501	36	836
Hubbard, Moses G., Philadelphia, Pa. Automatic twine-unwinder	347,804	Aug. 24	1878	501	36	836
Hubbard, Moses G., Norristown, Pa. Car-truck	348,741	Sept. 7	280	75	36	1100
Hubbard, Peter. (See Thornton and Hubbard.)						
Hubbard, Wales, Wiscasset, Me. Elevator	352,871	Nov. 16	1578	426	37	769
Hubbard, William. (See Lamont, Hugh, assignor.)						
Hubbard, William C., Durham, Conn., and W. M. Brownell, Brooklyn, N. Y. Cash-box	339,420	Apr. 6	442	108	35	82
Hubbard, William W., Philadelphia, Pa. Lathe	344,580	June 29	2565	664	35	1503
Hubbell, Charles H. (See Kelly and Hubbell.)						
Hubbell, Edgar A. (See Babcock, Alfred D., assignor.)						
Hubbell, Edwin, assignor of one-half to E. N. Melton, Falls City, Nebr. Wagon-brake	343,537	June 8	1119	282	35	1217
Hubbell, John J., Benzonia, Mich. Machine for pearling wheat and other grain	337,160	Mar. 2	368	96, 97	34	994

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hubbell, John N., Bedford, Ohio. Safety-switch for railways	347,805	Aug. 24	1879	501, 502	36	837
Hubbell, Laporte. Forestville, Conn. Clock-alarm	342,205	May 18	1682	449	35	837
Hubbell, Myron R. (See Whitney and Hubbell.)						
Hubbell, Myron R., Wolcott, Vt. Car-coupling	344,780	June 29	28-2	734	35	1552
Hubbell, Stephen M., Carland, Mich. Bedstead	351,055	Oct. 19	1376	361	37	264
Hubel, Frederick A., and F. J. Reinhold, Detroit, Mich.; said Reinhold assignor of one-half to said Hubel. Capsule-mold-greasing machine	345,591	July 13	1131	289	36	209
Huber, Berthold, Taunton, Mass. Gripper mechanism for printing-machines	347,487	Aug. 17	1419	377	36	742
Huber, Berthold, assignor to Huber Printing Press Company, Taunton, Mass. Inking apparatus for printing-machines	344,107	June 22	1916	490	35	1377
Huber, Berthold, assignor to Huber Printing Press Company, Taunton, Mass. Printing-machine	350,056	Sept. 28	2089	541	36	1461
Huber, Berthold, and W. K. Hodgman, assignors to Huber Printing Press Company, Taunton, Mass. Mechanical movement	348,162	Aug. 24	2395	642, 643	36	932
Huber, Edward, Marion, Ohio. Vehicle-wheel. (Reissue)	10,727	May 18	1862	493	35	869
Huber, Edward, Marion, Ohio. Steam-boiler	351,441	Oct. 26	1935	504	37	370
Huber, Edward, Marion, Ohio. Tire for traction-engines	354,702	Dec. 21	1542	408	37	1301
Huber, John B., South Bend, Ind. Machine for grinding plow-points	339,421	Apr. 6	443	108	35	82
Huber, Joseph H., Greensburg, Pa. Link-lifter for car-couplings	354,476	Dec. 14	1194	320	37	1232
Huber, Joseph L., Hamburg, Germany. Apparatus for measuring electrical currents	338,596	Mar. 23	2319	607	34	1364
Huber, Joseph L., Hamburg, Germany. Apparatus for measuring electric currents	338,597	Mar. 23	2320	608	34	1365
Huber, Louis C., Huber, Ky. Car-brake	340,580	Apr. 27	2128	548, 549	35	402
Huber, Louis C., Huber, assignor to Eureka Light Manufacturing Company, Louisville, Ky. Compound gearing for air-pumps	339,654	Apr. 13	823	202	35	151
Huber Printing Press Company. (See Huber, Berthold, assignor.)						
Huber Printing Press Company. (See Huber and Hodgman, assignors.)						
Hubert, Joseph, San Francisco, Cal. Wet ore concentrator	343,241	June 8	680	168, 169	35	1139
Hubert, Philippe G., New York, N. Y. Water-closet tank	337,405	Mar. 9	706	184	34	1062
Hubler, Harvey, assignor of one-half to E. L. Peters, West Salem, Ohio. Pipe-wrench with cutter	350,199	Oct. 5	140	41	37	30
Hubler, John W., Young America, Ind. Fence-making machine	348,742	Sept. 7	283	76	36	1100
Hubner, Curt, Berlin, Germany. Bridle-bit	345,592	July 13	1133	289	36	209
Hudgins, Richard W. (See McDowell, Hudgins, and Moore.)						
Hudson, Charles H., New York, N. Y. Corkscrew	353,860	Dec. 7	295	77	37	1060
Hudson, Edward M. (See Broun, Nicholas H., assignor.)						
Hudson, H. A. (See Van Wyck, William, assignor.)						
Hudson, J. Jones. (See Funk, John S., assignor.)						
Hudson, James, Birmingham, county of Warwick, England. Wheel for velocipedes	339,422	Apr. 6	444	108	35	83
Hudson, James, Birmingham, county of Warwick, England. Wheel for velocipedes	339,550	Apr. 6	648	157	35	117
Hudson, John H., *et al.* (See Shank, Charles A., assignor.)						
Hudson, Thomas, E. Rowe, Darlington, county of Durham, and C. Heslop, Stranghow, county of York, England, assignors to J. H. Lancaster, New York, N. Y. Coal-mining machine	345,696	July 20	1290	334	36	245
Hudson, William H., Jr. (See Smart, Charles W., assignor.)						
Hudswell, William H., Brooklyn, N. Y. Powder-puff	342,206	May 18	1683	449	35	837
Huebel, Otto H. (See Tucker and Huebel.)						
Huebner, Charles, Brooklyn, N. Y. Hydraulic jack	338,598	Mar. 23	2321	608	34	1365
Huestis, Charles B., Ukiah, Cal. Shingling-seat	354,703	Dec. 21	1543	408	37	1301
Huet, Louis H. S. H. (See Gaillet and Huet.)						
Huey, William G., and T. J. Lovegrove, Philadelphia, Pa. Gripping device for cable railways	333,633	Jan. 5	177	48	34	35
Huey, William G., and T. J. Lovegrove, Philadelphia, Pa. Cable railway	339,655	Apr. 13	824	203	35	152
Hufeland, Otto, Mount Vernon, assignor to J. C. Stephens, New York, N. Y. Mechanical movement	339,987	Apr. 13	1275	318	35	234
Huff, George A., Champaign, Ill. Snap-hook	346,047	July 20	1783	459	36	332
Huff, James H., Boston, Mass. Button	341,418	May 4	625	170	35	618
Huff, James H., Boston, Mass. Suspender-end	349,277	Sept. 14	1008	258	36	1238
Huffer, Anna, Cowden, Ill. Button-hole marker	353,064	Nov. 23	1864	503	37	830
Huffman, George D., Rossville, Ill. Combined grader and ditcher	340,119	Apr. 20	1450	367	35	271
Huffman, Jefferson M., assignor of one-third to F. B. Alexander, Hickory, N. C. Combined planter and fertilizer-distributer	346,548	Aug. 3	124	33	36	484
Huffman, John S., Rockford, Ill. Wrench	348,522	Aug. 31	2914	784	36	1036
Huffor, George A. (See Peacock, Graves, and Huffor.)						
Hugentobler, Emil M., New York, N. Y. Hydraulic air-compressor	342,798	June 1	32	9	35	1012
Hugentobler, Emil M., assignor to Standard Pump Manufacturing Company, New York, N. Y. Combined faucet and beer-pump	339,295	Apr. 6	259	65	35	48
Huggenberg, Carl, Chemnitz, Saxony, Germany. Treating silk fiber	339,778	Apr. 13	999	.....	35	182
Hughes, Augustus and S. H., Dayton, Ohio. Lifting-jack	353,223	Nov. 23	2088	558	37	875
Hughes, Edward H. (See Hughes, Theodore J. and E. H.)						
Hughes, Frank G., assignor to J. W. Ward, Galt, Ontario, Canada. Dental forceps	354,863	Dec. 21	1761	465	37	1343
Hughes, Henry A., Collinsville, Tex. Hame	334,775	Jan. 26	1808	481	34	357
Hughes, Henry A., Rio Grande, N. J. Stripping and cleaning sugar-cane	354,510	Dec. 14	1248	334	37	1241
Hughes, Henry A., Rio Grande, N. J. Cutting sugar and sorghum cane	354,905	Dec. 28	1827	483	37	1367
Hughes, James F., Georgetown, Tex. Kneading-machine	353,065	Nov. 23	1865	504	37	830
Hughes, James L., New Plymouth, assignor of one-half to Motherwell Iron and Steel Company, Logan, Ohio. Wagon-seat	337,763	Mar. 2	239	64	34	969
Hughes, John, Stapleton, N. Y. Apparatus for concentrating acids	339,552	Apr. 6	650	157	35	117
Hughes, John, Stapleton, N. Y. Making sulphuric acid	345,140	July 6	475	121	36	86
Hughes, John, Stapleton, N. Y. Apparatus for making sulphuric acid	353,222	Nov. 23	2086	558	37	875
Hughes, John F., *et al.* (See Wickizer, Samuel, assignor.)						
Hughes, John H. (See Smith and Hughes.)						
Hughes, John J., Evans Mills, N. Y. Clothes-line fastener	339,551	Apr. 6	649	157	35	117
Hughes, John M., Brooklyn, assignor of one-half to E. N. Dickerson, Jr., New York, N. Y. Compound table-salt or condiment	352,465	Nov. 9	1044	.....	37	661
Hughes, John O., and J. Eynon, Philadelphia, Pa. Heating and puddling furnace	342,749	May 25	2498	665	35	993
Hughes, Judson, assignor, by mesne assignments, to F. De La Matyr, Tremont, Nebr. Harness-pad press	342,259	May 18	1760	467	35	852
Hughes, Marshall J., Jersey City, N. J. Pen-holder	336,856	Feb. 23	2510	662	34	909
Hughes, Marshall J., Jersey City, N. J. Printing-plate holder	350,677	Oct. 12	820	222	37	156
Hughes, Robert. (See Hughes, William H. and R.)						
Hughes, Samuel H. (See Hughes, Augustus and S. H.)						
Hughes, Samuel R. Benton Harbor, Mich. Feed-water heater	345,593	July 13	1135	289	36	210

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Hughes, Samuel T., Cannonsburg, Pa. Expansion-joint for pipes	338,599	Mar. 23	2323	608	34	1365
Hughes, Theodore J. and E. H., (T. J. Hughes administrator of said E. H. Hughes, deceased,) Philadelphia, Pa. Refrigerator-building	352,872	Nov. 16	1580	427	37	769
Hughes, Thomas W., Butler, Mo. Ladder	352,922	Nov. 23	1652	444	37	792
Hughes, William, Auburn, N. Y. Upper	345,141	July 6	477	121	36	87
Hughes, William H., Rushville, Ill. Car-coupling	341,010	May 4	53	13	35	515
Hughes, William H., New York, N. Y. Inking apparatus for printing-machines	348,163	Aug. 24	2396	643	36	932
Hughes, William H. and R. Cleveland, Ohio. Steam-actuated valve	348,215	Aug. 31	2487	668	36	954
Hughes, William W., Washington Mills, N. Y. Scaffold-bracket	346,160	July 27	1940	500	36	372
Hughesdon, John, Carlin, Nev. Gate	341,849	May 11	1209	324	35	742
Hugle, Andrew J., Chicago, Ill. Watch-case	338,271	Mar. 23	1873	493	34	1287
Hugle, Fred, *et al.* (See Phelps, Ira M., assignor.)						
Hugle, Fred. (See Pohl, George R., assignor.)						
Huidekoper, Arthur C., *et al.* (See Houze, Ulgis, assignor.)						
Huidekoper, Arthur C., L. Mambourg, U. Houze, and D. S. Dockstader, Meadville, Pa. Furnace-forge for welding and forging iron, steel, and other metallic bodies	347,875	Aug. 24	1990	527	36	856
Hulbert Brothers. (See Hulbert, Orrin L., assignor.)						
Hulbert, George S. (See Thayer, Henry A., assignor.)						
Hulbert, Orrin L., assignor to Hulbert Brothers, St. Louis, Mo. Burnishing unmounted multiple photographic sheets	344,781	June 29	2835	734	35	1552
Huling, William N., Lampasas, Tex. Wire-stretcher	350,057	Sept. 28	2091	541	36	1461
Hull, George S., Elmira, N. Y. Underground conduit for electrical conductors	343,458	June 8	1024	255	35	1200
Hull, Herbert H., Cleveland, Ohio. Powder-can	348,126	June 1	508	128	35	1098
Hull, Herbert H., Cleveland, Ohio. Fount for vapor-stoves	351,774	Nov. 2	63	17	37	470
Hull, James W., *et al.* (See Rew, Richard A., assignor.)						
Hull, Liverus, Boston, Mass. Skate	336,019	Mar. 2	52	14	34	936
Hull, Martin L., Cleveland, Ohio. Vapor-stove	343,127	June 1	509	129	35	1099
Hull, Martin L., Cleveland, Ohio. Vapor-burner	347,712	Aug. 17	1751	466	36	804
Hull, Nicholas A., assignor to A. N. Dukes, receiver, Peru, Ind. Sewing-machine cover	342,515	May 25	2167	574	35	930
Hull, Orley. (See Gilbert, Franklin T., assignor.)						
Hull, Sarah J., Stella, Nebr. Rein-muff	353,861	Dec. 7	296	78	37	1061
Hull, Wolcott A., *et al.* (See Lyman, Charles H., assignor.)						
Hull, Wolcott A., *et al.* (See Wayland, James, assignor.)						
Hull, Wolcott A., New York, N. Y. Ornament for lamp-shades	350,058	Sept. 28	2092	541	36	1462
Hull, Wolcott A., New York, N. Y. Ornament for lamp-shades	351,700	Oct. 26	2313	601	37	443
Hull, Wolcott A., assignor of one-half to Ansonia Brass and Copper Company, New York, N. Y. Lamp-burner	345,233	July 6	596	151	36	108
Hull, Wolcott A., assignor of one-half to Ansonia Brass and Copper Company, New York, N. Y. Lamp-shade ornament	345,234	July 6	598	152	36	108
Hullhorst, Frederick, Yutan, Nebr. Obstetrical instrument	352,245	Nov. 9	763	204	37	606
Hulsapple & Co. (See Hickok, Frank K., assignor.)						
Hulse, E. M. (See Carleton, Charles, assignor.)						
Hulse, Edwin M., Chicago, Ill. Shoddy-purifier	334,776	Jan. 26	1809	481	34	357
Hulse, Edwin M., Chicago, Ill. Shoddy-purifier	334,777	Jan. 26	1810	481	34	357
Hulse, Frank, Goshen, N. Y. Grain-catcher	355,087	Dec. 28	2082	547	37	1414
Hulton, Eustace. (See Sewell, Hulton, and Bethel.)						
Hults, Charles, Torch Lake, Mich. Locomotive-whistle alarm	338,413	Mar. 23	2076	544	34	1322
Hultz, James, Greely, Kans. Churn	338,172	Mar. 16	1742	455	34	1255
Humans, William, Cambridgeport, assignor to G. Collamore, Boston, Mass., and American Magnetic Electric Company, Jersey City, N. J. Magnetic electric door-pull	336,518	Feb. 16	2045	537	34	818
Humber, Thomas, Beeston, county of Nottingham, England. Velocipede	352,090	Nov. 2	526	140	37	558
Humbert, Alfred, Philadelphia, Pa. Core for casting metal tubes	341,419	May 4	624	170	35	618
Humbert, Charles H., Pittsburg, Pa. Vaporizer for fire-places	344,315	June 22	2200	566	35	1428
Humbird, James S., *et al.* (See Doubleday, Harry M., assignor.)						
Humbird, James S., *et al.* (See Doubleday and Lyman, assignors.)						
Humble, Josie. (See Reynolds, Florence M., assignor.)						
Hume, George H. and J. S., Osawatomie, Kans. Fence-support	347,713	Aug. 17	1753	467	36	804
Hume, John S. (See Hume, George H. and J. S.)						
Humes, John J. R., Camberwell, county of Surrey, England. Hydrocarbon-vapor engine	350,200	Oct. 5	141	41, 42	37	30
Humphrey, Frank A., Worcester, Mass. Temporary center and templet instrument	346,048	July 20	1784	459, 460	36	332
Humphrey, Frank A., Worcester, Mass. Bar-center tool	346,371	July 27	2231	572	36	427
Humphrey, Frank A., Worcester, Mass. Combined panel-gage, measuring-rod, and trammel	348,674	Sept. 7	197	52	36	1082
Humphrey, Frank A., Worcester, Mass. Marking-gage	349,102	Sept. 14	784	199	36	1194
Humphrey, Fred, Boston, Mass. Oil-cup	346,205	July 27	2004	516	36	384
Humphrey, George W., Delphi, and L. O. Bush, Rose, N. Y.; said Bush assignor to said Humphrey. Apple-slicer	344,379	June 29	2297	592	35	1452
Humphrey, Henry H., Detroit, Mich. Knob attachment	339,102	Mar. 30	3064	811	34	1501
Humphrey, Henry P., Lowell, Mass., assignor to Lowell Oiler Company, Nashua, N. H. Mechanical oiler and journal-box for shafting	333,950	Jan. 5	620	169	34	117
Humphrey, Isaac N., *et al.* (See Black, David, assignor.)						
Humphrey, James D., Towanda, Pa. Leather-skiving machine	334,119	Jan. 12	870	238	34	169
Humphrey, William. (See Knapp, McKenzie, and Humphrey.)						
Humphreys, Charles I. (See Timmins and Humphreys.)						
Humphreys, James W., Iroquois, Ill. Ditching-machine	351,701	Oct. 26	2314	601, 602	37	443
Humphreys, John, Jr., Mansfield, Ohio. Pump	336,857	Feb. 23	2511	662	34	910
Hungerford, George S., New York, N. Y. Machine for separating coffee, &c	345,633	July 13	1190	306	36	220
Hungerford, Henry, Norwalk, Conn. Mill-roll	346,817	Aug. 3	445	122, 123	36	547
Hunley, Booker T. M., assignor of one-half to T. G. Patterson, Baltimore, Md. Sectional trunk	350,883	Oct. 12	1107	295	37	209
Hunnicutt, Hargar, Malvern, Ark. Aerial ship	334,866	Jan. 26	1920	511	34	377
Hunsaker, George T., Carthage, Ill. Sponge-holder and envelope-moistener	350,968	Oct. 5	356	103	37	72
Hunsicker, Charles M., Dayton, Ohio. Machine for bending metal pipes	347,488	Aug. 17	1420	377	36	742
Hunsicker, Henry J., Laurelton, Pa. Bolt for shutters, &c	334,953	Jan. 26	2026	541	34	396
Hunsicker, Joseph F. (See Custard, Joseph F., assignor.)						
Hunt, Alexander E. (See Rollins, Edward K., assignor.)						
Hunt, Charles E., N. B. Helm, and H. L. Ferris, Harvard, Ill. Hay elevator and carrier	339,187	Apr. 6	100	28	35	21
Hunt, Charles E., N. B. Helm, and H. L. Ferris, Harvard, Ill. Hay-elevator	351,442	Oct. 26	1937	504	37	371
Hunt, Charles E., N. B. Helm, and H. L. Ferris, Harvard, Ill. Hay-elevator	351,443	Oct. 26	1939	505	37	371
Hunt, Charles E., N. B. Helm, and H. L. Ferris, Harvard, Ill. Hay-elevator	351,444	Oct. 26	1940	504	37	371
Hunt, Charles F., Worcester, Mass. Twisted and flattened wire box-fastening	352,246	Nov. 9	764	204	37	606
Hunt, Charles M., Pocahontas, Iowa. Arm-support	346,549	Aug. 3	126	34	36	484

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Hunt, Charles W., West New Brighton, assignor to C. W. Hunt Company, New York, N. Y. Car-truck	347,936	Aug. 24	2077	552	36	873
Hunt, Charles W., West New Brighton, assignor to C. W. Hunt Company, New York, N. Y. Coal-conveying apparatus	349,309	Sept. 21	1043	267	36	1253
Hunt, Charles W., West New Brighton, assignor to C. W. Hunt Company, New York, N. Y. Hoisting apparatus	351,445	Oct. 26	1941	535	37	372
Hunt, Charles W., West New Brighton, assignor to C. W. Hunt Company, New York, N. Y. Hoisting apparatus	351,446	Oct. 26	1942	506	37	372
Hunt Company, C. W. (See Hunt, Charles W., assignor.)						
Hunt, Daniel T., *et al.* (See Smith, George W., assignor.)						
Hunt, Edward W. (See Schönberg, James, assignor.)						
Hunt, George G., Bristol Station, assignor of one-half to Plano Manufacturing Company, Plano, Ill. Grain-binder	339,988	Apr. 13	1276	319	35	234
Hunt, George G., Bristol Station, assignor of one-half to Plano Manufacturing Company, Plano, Ill. Grain-binder	339,989	Apr. 13	1280	320	35	235
Hunt, George G., Bristol, assignor to Plano Manufacturing Company, Plano, Ill. Clutch mechanism for mowing-machines	354,906	Dec. 28	1828	483	37	1367
Hunt, George G., Bristol Station, and G. H. Steward; said Hunt assignor of one-half his right, and said Steward assignor of all his right, to Plano Manufacturing Company, Plano, Ill. Grain-binder	353,560	Nov. 30	2582	690	37	974
Hunt, George P. (See Blake and Trimnell, assignors.)						
Hunt, Ira J., Kalamazoo, assignor of one-half to D. O. Everest & Co., Pine Grove, Mich. Wheel-cultivator	347,806	Aug. 24	1881	502	36	837
Hunt, James. (See Amos and Hunt.)						
Hunt, James, assignor to United States Exhaust, Filling and Carbonating Company, Philadelphia, Pa. Bottle-filling machine	333,524	Jan. 5	39	11, 12	34	10
Hunt, James E., Chicago, Ill. Barbed fence-wire	338,229	Mar. 16	1820	476	34	1269
Hunt, James E., San Francisco, Cal. Window burglar-alarm	346,105	July 27	1856	479	36	356
Hunt, John P., Philadelphia, Pa. Cable railway	354,141	Dec. 14	724	194	37	1145
Hunt, Myron A., Wright's Grove, Ill. Manufacture of brick and other burned products of clay.	345,305	July 13	705	.....	36	133
Hunt, Nathan, assignor of one-half to Buckeye Engine Company, Salem, Ohio. Lathe for turning spherical surfaces	338,749	Mar. 30	2556	675	34	1412
Hunt, Robert W., Troy, N. Y. Feeding-table for rolling-mills	348,216	Aug. 31	2488	669	36	954
Hunt, Samuel, assignor of two-thirds to L. Sharp, Lockport, and B. F. Felton, Wheatfield, N. Y. Vehicle-spring	342,750	May 25	2199	665	35	993
Hunt, William H., Emporia, Kans. Railway signal-lamp	354,142	Dec. 14	725	194 195	37	1146
Hunter, George D., Terre Haute, assignor of one-half to T. C. Van Nuys and one-sixth to M. C. Hunter, Bloomington, Ind. Spark-arrester. (Reissue)	10,698	Mar. 9	1240	321 322	34	1155
Hunter, George, Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Watch-dial	340,044	Apr. 13	1358	340	35	248
Hunter, George, Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Watch-dial	340,045	Apr. 13	1358	340	35	248
Hunter, George, Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Watch-dial	340,507	Apr. 20	2018	517	35	375
Hunter, George, Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Watch-dial	340,508	Apr. 20	2019	518	35	375
Hunter, George, Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Watch-movement	347,272	Aug. 10	1098	294	36	675
Hunter, George E., Elgin, Ill. Compensation-balance for time-pieces	347,297	Aug. 10	1139	305	36	683
Hunter, George E., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Machine for driving and cutting steady-pins for watch-escapements	345,634	July 13	1192	306 307 308	36	220
Hunter, George E., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Device for heading steady-pins of watch-escapements	345,635	July 13	1195	308 309	36	221
Hunter, George E., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Machine for securing guard-pins in escape-levers	345,636	July 13	1196	309 310	36	221
Hunter, George E., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Manufacture of watch-balances	347,271	Aug. 10	1097	293	36	675
Hunter, George W., Logansport, Ind. Water-closet	346,997	Aug. 10	703	196	36	603
Hunter, Griffith, assignor to S. A. Hunter, Chicago, Ill. Apparatus for hoisting stone	346,850	Aug. 3	494	136 137	36	557
Hunter, J. Montgomery. (See Oliver and Hunter.)						
Hunter, James, Ruff's Dale, Pa. Fence post	347,298	Aug. 10	1141	305	36	683
Hunter, James W., and C. F. Bassett, Chicago, Ill. Step-ladder	336,008	Feb. 9	1296	345	34	679
Hunter, John, Kingston, Ontario, Canada. Watch-maker's lathe	354,601	Dec. 21	1394	368	37	1273
Hunter, Lewis C., Fort Wayne, Ind. Farm-gate	342,299	May 18	1830	484	35	863
Hunter, Marshall E. (See Gerry, James H., assignor.)						
Hunter, Marshall E. (See Gerry and Hunter.)						
Hunter, Marshall E., Oakland, Cal., and J. H. Gerry, Brooklyn, N. Y.; said Gerry assignor to said Hunter. Electric synchronizer for clocks	349,650	Sept. 21	1509	391	36	1345
Hunter, Morton C., *et al.* (See Hunter, George D., assignor.) (Reissue.)						
Hunter, Nathaniel W., Cincinnati, Ohio. Harness-coupling	333,634	Jan. 5	178	48	34	35
Hunter, Rudolph M., Philadelphia, Pa. Regulator for dynamo-electric machines	347,937	Aug. 24	2078	552	36	873
Hunter, S. A. (See Hunter, Griffith, assignor.)						
Hunter, Sarah L., Little Rock, Ark. Flower-pot	352,247	Nov. 9	765	204	37	606
Hunter, Thomas M., assignor of one-half to W. J. Best and L. Jordan, New York, N. Y. Safety attachment for elevators	337,768	Mar. 9	1183	308	34	1144
Hunter, William H. (See Kerr, James M., assignor.)						
Hunting, Francis M., Meridian, N. Y. Stove-leg and caster	343,031	June 1	355	92	35	1072
Huntington, Charles P. (See Perrin, Thomas J., assignor.)						
Huntington, Joseph D., Chicago, Ill. Device for supporting machinery	346,106	July 27	1857	480	36	356
Huntington, Lawson D., *et al.* (See Osborne, Theodore B., assignor.)						
Huntington, Silas H., West Pittston, Pa. Grate for furnaces	352,692	Nov. 16	1350	364	37	725
Huntington, William H. (See Tilton, James E., assignor.)						
Huntley, Charles, assignor to G. T. Weaver, Philadelphia, Pa. Device for immovably securing boxes	339,779	Apr. 13	999	246	35	182
Huntley, Charles E., assignor of one-half to W. H. Patten, Muskegon, Mich. Tube-cutter.	343,957	June 15	1695	434	35	1331
Huntley, Gibbs, Bay City, Mich. Breech-loading fire-arm	345,902	July 20	1583	408	36	297
Huntley, Perry, assignor to C. S. Leet, Bridgeport, Conn. Bench-vise	340,947	Apr. 27	2623	691	35	488
Huntress, Orville. (See Harrison, Huntress, and Lewis.)						
Hunzeker, Rudolph S. (See Rowand and Hunzeker.)						
Hunzeker, Rudolph S., assignor to Pittsburg Spring Company, (limited,) Pittsburg, Pa. Side-bar vehicle	339,188	Apr. 6	102	28	35	21

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hurd, Edward G., Seneca, Kans. Clothes-rack	335,073	Jan. 26	2200	584	34	427
Hurd, George S., N. B. Stanza, and W. A. Woodson, Troy, Mo. Steam wash-boiler	344,782	June 29	2836	734	35	1552
Hurd, Harvey J., Northford, Conn. Tether	342,300	May 18	1832	485	35	863
Hurd, James C., Springfield, Mass. Knockdown paper box	340,915	Apr. 27	2578	679	35	481
Hurlbert, George S. (See Bisbee, George W., assignor.)						
Hurlburt, William, and B. B. Havens, Rushville, N. Y. Horse-collar pad	340,509	Apr. 20	2019	518	35	375
Hurlbut, Daniel N., Chicago, Ill. Underground electrical conduit	340,046	Apr. 13	1359	341	35	249
Hurlbut, Daniel N., Chicago, Ill. Conduit or other pipe	353,680	Dec. 7	42	11	37	1014
Hurlbut, Daniel N., Chicago, Ill. Die for forming conduits or pipes	358,681	Dec. 7	43	11	37	1015
Hurlbut, Seth E., Chicago, Ill. Flexible joint for underground electrical conduits	352,754	Nov. 16	1424	384	37	740
Hurley, George E., assignor of one-half to J. Dyer, Nashville, Mo. Brace for chairs	352,755	Nov. 16	1426	384	37	741
Hurley, John A., assignor to F. F. Adams Company, Erie, Pa. Cork-puller	348,743	Sept. 7	284	76	36	1100
Hurley, John A., assignor to F. F. Adams Company, Erie, Pa. Cork-puller	348,311	Sept. 7	504	134	36	1140
Hurley, John A., assignor to F. F. Adams Company, Erie, Pa. Cork-puller	350,308	Oct. 5	277	79	37	56
Hurley, William G., Terrell, Tex. Fertilizer-distributer	347,876	Aug. 24	1991	527	36	856
Hurst, Jakob, Syracuse, N. Y. Slide-calipers	353,561	Nov. 30	2583	690	37	975
Hurt, Celestin. (See Starka, Josef, assignor.)						
Hurtz, Theodore, Kansas City, Mo. Artificial stone or marble	354,834	Dec. 21	1723	.....	37	1336
Hurxthal, Frederick K., *et al.* (See Flaharty, George A., assignor.)						
Husband, Charles. (See Buchten, Adolph, assignor.)						
Huse, Warren D., Laconia, N. H. Spindle for yarn-winding machines	348,560	Sept. 7	24	7	36	1053
Huse, Warren D., Laconia, N. H. Yarn-winding machine	348,561	Sept. 7	25	7, 8	36	1053
Huse, Warren D., Laconia, assignor to O. Twombly, Lake Village, N. H., and T. S. Nowell, Boston, Mass. Knitting-machine	335,587	Feb. 9	698	185, 186	34	573
Husemann, Gottlieb D., assignor of one-half to C. Kroeninger, St. Louis, Mo. Adjustable balcony	353,634	Nov. 30	2694	720	37	993
Hushaw, Samuel, Industry, Ill. Gate	336,049	Feb. 9	1356	358	34	690
Hussey, Charles A., New York, N. Y. Electric time-indicating system	350,430	Oct. 5	442	126, 127	37	87
Hussey, Charles A., New York, N. Y. Primary electric clock	350,431	Oct. 5	447	127	37	87
Hussey, Charles A., New York, N. Y. Electric time-indicating system	350,432	Oct. 5	449	127	37	87
Hussey, Charles A., New York, N. Y. Secondary electric clock	350,433	Oct. 5	453	128	37	87
Hussey, Charles A., New York, N. Y. Electric time-indicating system	350,434	Oct. 5	454	128	37	88
Hussey, Charles A., New York, N. Y. Case for secondary electric clocks	350,435	Oct. 5	457	129	37	88
Hussey, E. B., *et al.* (See Black, Henry, assignor.)						
Hussey, E. B., *et al.* (See Black and Miller, assignors.)						
Hussey, Frederick. (See Budd, William E., assignor.)						
Hussey, Jasper F., New Vienna, Ohio. Ash-pan for locomotives	346,049	July 20	1786	460	36	332
Hussey, John P., Gilmanton Iron Works, N. H. Water-motor	340,120	Apr. 20	1452	367	35	271
Hussey, John R., Indianapolis, Ind. Sash-lock	350,678	Oct. 12	821	222	37	156
Hussey, Silvanus, Buffalo, N. Y. Rock-drill machine	339,103	Mar. 30	3065	811	34	1501
Hussey, Timothy B., North Berwick, Me. Harrow	346,372	July 27	2233	573	36	428
Husted, Christian, Chicago, Ill. Paper-file	341,482	May 11	711	191	35	644
Husted, Hubert G., Oberlin, Ohio. Pneumatic dental plugger	352,756	Nov. 16	1426	385	37	741
Huster, Theodore, Paterson, N. J. Caster	346,161	July 27	1941	500	36	372
Huston, John B., Cleveland, Ohio. Car-motor	344,108	June 22	1918	491	35	1377
Huston, Thomas, Ceylon, Pa. Monument	337,769	Mar. 9	1185	309	34	1145
Hutchens, Erasmus V., Evansville, Ind. Boiler	350,592	Oct. 12	696	188	37	133
Hutchings, Arthur, Buffalo, N. Y. Fire-escape	346,406	July 27	2285	587	36	437
Hutchins, Carleton B., Detroit, Mich. Wall for refrigerator-cars	337,770	Mar. 9	1186	309	34	1145
Hutchins, Carleton B., Detroit, Mich. Heat-insulating wall of refrigerators and cars	339,183	Apr. 6	90	26	35	19
Hutchins, Carleton B., Detroit, Mich. Refrigerator-car	339,184	Apr. 6	92	26, 27	35	19
Hutchins, Carleton B., Detroit, Mich. Refrigerator-car	339,185	Apr. 6	98	27	35	20
Hutchins, Carleton B., Detroit, Mich. Door for refrigerating-cars	339,186	Apr. 6	99	28	35	20
Hutchins, Carleton B., Detroit, Mich. Freight-car roof	343,173	June 8	584	146	35	1121
Hutchins, George F., assignor to Knowles' Loom Works, Worcester, Mass. Variable take-up motion for looms	340,216	Apr. 20	1006	407	35	300
Hutchins, George F., assignor to Knowles Loom Works, Worcester, Mass. Locking device for the harness-jacks of looms	346,407	July 27	2287	587, 588	36	437
Hutchins, George F., assignor to Knowles Loom Works, Worcester, Mass. Mechanism for depressing loom-harnesses	346,408	July 27	2289	588	36	437
Hutchins, Herbert, South Penobscot, Me. Sextant	354,602	Dec. 21	1394	369	37	1274
Hutchins, Samuel S. (See Laing and Hutchins.)						
Hutchinson, Clinton C., assignor to I. P. Morris Company, Philadelphia, Pa. Apparatus for refrigerating rooms	348,523	Aug. 31	2915	784	36	1036
Hutchinson, Ezra L., *et al.* (See Bennett, Edward O., assignor.)						
Hutchinson, John A., Chicago, Ill., assignor to A. W. Kingsland, of Illinois. Horseshoe-nail-finishing machine	353,030	Nov. 23	1804	485	37	819
Hutchinson, Robert M., Boston, Mass. Sash-fastener	352,189	Nov. 9	693	185	37	593
Hutchison, William G., *et al.* (See Armstrong, George S., assignor.)						
Hutson, Henry A., Chicago, Ill. Chemical engine	343,317	June 8	793	198	35	1159
Hutson, Joshua B., Richmond, Va. Combined latch and lock	343,376	June 8	904	227	35	1179
Huttemeyer, George C., Toronto, Ontario, Canada, assignor of one-half to F. P. Terry, Batavia, N. Y. Manufacturing a confection to contain medicine	352,466	Nov. 9	1045	281	37	661
Huttenlocher, Gottlieb H., Des Moines, Iowa. Car-coupling	346,107	July 27	1859	480	36	356
Hutton, George H., Baltimore, Md. Jump-seat	342,964	June 1	268	69	35	1055
Hutton, George H., Jr., and M. B., Baltimore, Md. Jump-seat	340,918	Apr. 27	2624	691	35	488
Hutton, Millard B. (See Hutton, George H., Jr., and M. B.)						
Hutton, Terry J., Fergus Falls, Minn. Medicine-chest	350,251	Oct. 5	209	60	37	44
Hutton, Sutherland. (See Dye, Joseph F., assignor.)						
Huyck, Francis P. (See Baker and Huyck.)						
Huyett & Smith Manufacturing Company. (See Smith, Wright D., assignor.)						
Huyler, John S., assignor to Huyler's, New York, N. Y. Confectioner's kettle	342,016	May 18	1429	384	35	789
Huyler's. (See Huyler, John S., assignor.)						
Hyatt, John W. (See Lefferts and Hyatt.)						
Hyatt, John W., Newark, N. J. Filter	338,414	Mar. 23	2077	544, 554	34	1323
Hyatt, John W., Newark, N. J. Apparatus for purifying water	350,679	Oct. 12	822	223	37	156
Hyatt, John W., Newark, N. J. Filter	354,143	Dec. 14	726	195	37	1146
Hyatt, John W., Newark, N. J. Water-cleaner for boilers	354,864	Dec. 21	1761	465	37	1343
Hyatt, John W., assignor to Newark Filtering Company, Newark, N. J. Coagulant for purifying water	350,680	Oct. 12	825	.....	37	157
Hyatt, Jonah G., Waverly, N. Y. Door-hanger	347,109	Aug. 10	878	232	36	634

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hyatt, Nelson F. (See Hyatt, Walter P. and N. F.)						
Hyatt, Walter P., Matteawan, N. Y., assignor to New York Felting Company. Felt articles, such as boots, shoes, and slippers with felt soles	345,432	July 13	887	221	36	165
Hyatt, Walter P., Matteawan, N. Y., assignor to New York Felting Company. Felt footwear	347,110	Aug. 10	879	232	36	634
Hyatt, Walter P., Matteawan, N. Y., assignor to New York Felting Company. Felt shoe	347,111	Aug. 10	880	233	36	635
Hyatt, Walter P. and N. F., Matteawan, N. Y. Machine for hardening seamless felt boots and other hollow felt articles	339,554	Apr. 6	654	158	35	117
Hyatt, William F., Brooklyn, N. Y. Safety-pin	335,284	Feb. 2	280	74	34	490
Hyde, Alfred T., Oil City, Pa. Tape-measure	338,527	Mar. 23	2228	585	34	1350
Hyde, Alfred T., Oil City, Pa. Ladder	338,528	Mar. 23	2228	585	34	1350
Hyde, Alfred T., Oil City, Pa. Hollow street-connection	338,668	Mar. 23	2424	639	34	1383
Hyde, Daniel W., Boston, Mass. Apparatus for flushing water-closets	333,951	Jan. 5	622	170	34	117
Hyde, Elwin R., assignor to Springfield Glue and Emery Wheel Company, Springfield, Mass. Emery-wheel and hangings therefor	350,593	Oct. 12	697	188	37	133
Hyde, Francis. (See Horner and Hyde.)						
Hyde, Francis, Detroit, Mich. Car-axle-box cover	334,705	Jan. 19	1713	457	34	331
Hyde, George H. (See Jones, Willis, assignor.)						
Hyde, James C., assignor to West Haven Buckle Company, West Haven, Conn. Suspender-buckle	346,851	Aug. 3	496	137	36	557
Hyde, Theophilus R., Jr., assignor to Scovill Manufacturing Company, Waterbury, Conn. Button-fastener	342,301	May 18	1833	485	35	863
Hyde, Theophilus R., Jr., assignor to Scovill Manufacturing Company, Waterbury, Conn. Window-shade bar	350,884	Oct. 12	1108	295	37	109
Hyde, Thomas, Albany, N. Y. Automatic discharge for vessels holding liquids	340,121	Apr. 20	1453	368	35	271
Hyde, William F., assignor to E. B. and G. E. Preston, Chicago, Ill. Turn-table truck fire extension-ladder	336,519	Feb. 16	2047	537	34	818
Hydraulic Elevator Company. (See Baldwin, Cyrus W., assignor.)						
Hydraulic Press Brick Company. (See Baldwin, Frank S., assignor.)						
Hydraulic Press Brick Company. (See Graves, Willis N., assignor.)						
Hyman, Samuel, assignor of three-fourths to J. W. Eaton and C. Wetherwax, Albany, N. Y. Railway-track	345,054	July 6	358	90	36	65
Hynds, Francis P., Ralston's Station, Tenn. Car-coupling	346,409	July 27	2290	588	36	438
Hyre, David N., Rich Hill, Mo., assignor to H. L. Hyre, Lexington, Ill. Weather-strip	340,047	Apr. 13	1360	341	35	249
Hyre, Harrison L. (See Hyre, David N., assignor.)						
Hyslop, John B. (See Cowdery, Perry, and Hyslop.)						
Hyson, Henry, Amesbury, Mass., assignor to Merino Shoe Company, Kennebunk, Me. Making felt boots	341,659	May 11	962	255	35	692
Hyzer, Jacob B., Janesville, Wis. Tobacco-spud	343,318	June 8	794	198	35	1159
Iago, Charles T., 55 Riversdale Road, Highbury, county of Middlesex, England. Photo-engraving	339,423	Apr. 6	445	.....	35	83
Ickes, Gustav, Omaha, Nebr. Corn-planter	346,550	Aug. 3	126	34	36	484
Ide, Albert L., Springfield, Ill. Valve-indicator for steam-engines	343,032	June 1	356	92, 93	35	1072
Ide, Ferdinand F., Springfield, Ill. Adjustable filing-block	335,930	Feb. 9	1195	318	34	662
Iftand, Charles, Chicago, Ill. Horse-collar	339,892	Apr. 13	1144	284, 285	35	211
Iler, Leroy, Ridott, and W. H. Piper, Leaf River, Ill. Grinding-mill	346,108	July 27	1860	480	36	357
Iler, Peter E., *et al.* (See Cabell, Samuel G., assignor.)						
Iles, Henry J., Seymour, assignor to J. McEnerney, Derby, Conn. Thill-coupling	338,970	Mar. 30	2857	754	34	1468
Iles, Malvern W., and F. Keiper, Denver, Colo.; said Keiper assignor of one-half to said Iles. Matte-pot for smelting-furnaces	335,224	Feb. 2	200	52	34	476
Illingworth, Harry R. (See Illingworth, Joseph J. and H. R.)						
Illingworth, John, Newark, N. J. Mold for casting compound ingots	349,886	Sept. 28	1859	479	36	1418
Illingworth, John, Newark, N. J. Compound ingot-mold	349,998	Sept. 28	2068	518, 519	36	1445
Illingworth, Joseph J. and H. R., Utica, N. Y. Steam-engine recorder	334,778	Jan. 26	1811	481	34	358
Illingworth, Joseph J. and H. R., Utica, N. Y. Steam-engine recorder	334,779	Jan. 26	1812	482	34	358
Illingworth, Robert H., Jersey City, and D. C. Smiley, Jr., Newark, N. J. Locomotive-spring	350,629	Oct. 12	753	206	37	144
Illingworth, Robert H., and D. C. Smiley, Jr., Jersey City, N. J. Locomotive-spring	350,630	Oct. 12	754	206	37	144
Illinois Watch Company. (See Taft, Ryland L., assignor.)						
Ilse, Augustus, Evanston, Wyo. Ter. Fire-escape	338,843	Mar. 30	2685	707	34	1436
Ilse, Augustus, Evanston, Wyo. Ter. Hoisting and lowering apparatus	344,183	June 22	2021	517	35	1396
Imbrie, Addison, *et al.* (See Eachus, George W., assignor.)						
Imbrie, Charles F. (See Holberton, Wakeman, assignor.)						
Imhorst, Ferdinand, San Francisco, Cal. Upright piano-forte	348,629	Sept. 7	135	38	36	1072
Imlay, William L., Camden, N. J. Jar-clamp	345,142	July 6	477	121	36	87
Imler, Joseph, Garrett, assignor of three-fourths to L. A. Wright, Avilla, F. Falker and M. C. Osborn, Fort Wayne, Ind. Machine for driving well-tubes	340,318	Apr. 20	1755	447, 448	35	326
Imperial Electric Light Company. (See Perkins, Charles G., assignor.)						
Improved Horse Shoe Company. (See Melius, Lyman B., assignor.)						
Ince, William, Hayle, county of Cornwall, England. Dust-collector	350,059	Sept. 28	2093	541, 542	36	1462
Indented Paper Company. (See Baker, Jacob M., assignor.)						
Indurated Fibre Company. (See Keyes, Martin L., assignor.)						
Ingalls, Allen G., Granby, Quebec, Canada. Centrifugal dish-washer	355,088	Dec. 28	2083	547, 548	37	1414
Ingalls, Wellington, and F. A. Bailey, Mattawamkeag, Me. Hame-fastener	352,542	Nov. 16	1135	306	37	686
Ingalls, William, Mobile, Ala. Log-turner	338,669	Mar. 23	2424	639	34	1383
Ingersoll, Charles M., Summit Hill, Pa. Car-coupling	336,322	Feb. 16	1785	467	34	770
Ingersoll, James C., Springfield, Mass. Device for detaching box-covers	350,369	Oct. 5	357	103	37	72
Ingersoll, Luther J., Denver, Colo. Toy pistol	333,635	Jan. 5	180	49	34	36
Ingersoll, Robert H., and P. B. Henry, New York, N. Y. Rotary hand numbering and printing machine	345,697	July 20	1291	335	36	245
Ingersoll, Simon, Glenbrook, Conn., assignor to Pond, West & Simons, Port Chester, N. Y. Rock-drill	344,906	July 6	156	39, 40	36	28
Ingersoll, Simon, Glenbrook, Conn., assignor to Pond, West & Simons, Port Chester, N. Y. Rock-drilling machine	344,907	July 6	158	40	36	29
Ingersoll, Simon, Stamford, Conn., assignor to N. C. Pond, M. O. West, and E. Simons, Port Chester, N. Y. Projectile for throwing life-lines	348,848	Sept. 7	409	111	36	1123
Ingersoll, Simon, Stamford, Conn., assignor to N. C. Pond, M. O. West, and E. Simons, Port Chester, N. Y. Gun and projectile for throwing life-lines	348,849	Sept. 7	411	111	36	1123
Ingham, Sylvester L., Granville, Ohio. Gate	353,682	Dec. 7	44	12	37	1015

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Ingham, John F., assignor of one-half to J. A. Moore, Pittsburg, Pa. Combined razor strop and case	343,521	June 8	1098	276	35	1213
Ingle, Ezra W., Fort Worth, Tex. Safety-valve attachment for lamps	341,483	May 11	712	191	35	644
Inglis, Charles A. (See Jones, Washington, assignor.)						
Ingold, Eugene. (See Stern, William A., assignor.)						
Ingold, F. N. (See Ellison, Alphonso L., assignor.)						
Ingraham, Alfred W., Thurman, N. Y. Railway-velocipede	352,952	Nov. 23	1694	455	37	799
Ingram, John A., assignor of one-half to W. B. Kile, Canton, Kans. Belt-guide	348,285	Aug. 31	2580	694	36	973
Ingram, John A., assignor of one-half to W. B. Kile, Canton, Kans. Fanning-mill	351,511	Oct. 26	2043	530	37	392
Ingrey, Charles. (See Poore, Ingrey, and Latham.)						
Initial Toepad Company. (See Barrows and Knowles, assignors.)						
Inman, Horace, Amsterdam, N. Y. Friction pulley or clutch	351,447	Oct. 26	1943	506	37	372
Inman, John T., Attleborough, Mass. Joint for lockets	354,144	Dec. 14	727	195	37	1146
Inman, Orville A. (See Dodds and Inman.)						
Inman, Peter H., assignor of one-half to C. B. Soule, Highland Park, Ill. Steam-heating apparatus. (Reissue)	10,721	May 11	1232	329	35	746
Inman, Thomas O., Williamsport, Pa. Frying-pan	334,867	Jan. 26	1921	511	34	377
Innis, William J., Oil City, Pa. Belt-puller	342,910	June 1	188	48	35	1039
International Postal Supply Company of New York. (See Hey and Laass, assignors.)						
International Printing Telegraph Company. (See Linville, Jacob H., assignor.)						
Internationaler Vakuum Eis-Maschinen Verein. (See Pischon and Pfennig, assignors.)						
Intze, Otto, Aachen, Prussia, Germany. Fluid-reservoir	348,912	Sept. 7	505	134 135	36	1140
Intze, Otto, Aachen, Prussia, Germany. Gasometer	348,913	Sept. 7	507	135	36	1140
Iowa Electrical Company. (See Hess, Albert T., assignor.) (Reissue.)						
Iredale, William J. (See Newland, Iredale, and Newland.)						
Ireland, A. Bertsell, Greene, N. Y. Saw	334,440	Jan. 19	1342	364	34	263
Ireland, A. Bertsell, Greene, N. Y. Machine for cutting shingles	342,017	May 18	1430	384 385	35	789
Ireland, David M., assignor of one-half to H. A. Matthews, Waterbury, Conn. Bar-knob	343,815	June 15	1514	381	35	1295
Ireland, Richard B., Trenton, N. J. Compensator for wire ropes and cables	338,415	Mar. 23	2080	545	34	1323
Ireland, William H. (See Merritt, Henry W., assignor.)						
Irish, Charles S. (See Lewis and Irish.)						
Irish, Joseph, assignor to J. McVickar, New York, N. Y. Embroidering-machine	348,562	Sept. 7	27	8 9 10 11 12	36	1053
Irish, Rolon C., Augusta, Me. Lease-rod for looms	342,603	May 25	2284	604	35	952
Irmler, August, Gardenville, N. Y. Washing-machine	339,780	Apr. 13	1000	246	35	183
Iron Clad Manufacturing Company. (See Haigh, Harry B., assignor.)						
Iron Clad Manufacturing Company. (See Müller, Charles S., assignor.)						
Ironmonger, Francis M., Brooklyn, N. Y. Hand-stamp	344,581	June 29	2566	665	35	1503
Irons, Edward P., Baltimore Md. Gas-cock	337, 61	Mar. 2	369	97	34	994
Irons, James, Philadelphia, Pa. Show-case	344,582	June 29	2567	665	35	1503
Irvin, Andy B., assignor of one-half to J. Rannells, Twelve Mile, Ind. Combined adjustable desk and seat	334,171	Jan. 12	950	257	34	183
Irvine, Thomas, Beef Slough, Wis. Plug for rafts and booms	336,920	Mar. 2	53	14	34	936
Irving, George M. (See Watson, William, assignor.)						
Irving, John, Warren, Mass. Centering device	352,693	Nov. 16	1350	365	37	725
Irwin, Frank, Centreport, N. Y. Carrier for cobs	346,919	Aug. 10	605	162	36	42
Irwin, James. (See Banks and Irwin.)						
Irwin, John H., trustee. (See Voelker William L., assignor.)						
Irwin, John H., Morton, Pa. Regulator for dynamo-electric machines	354,791	Dec. 21	1666	440	37	1324
Irwin, Joseph I. (See Allison, Asa H., assignor.)						
Irwin, Stephen. (See Bunch, John W., assignor.)						
Isaacs & Bro., R. (See Allison, Isaac A., assignor.)						
Isaacs, John D., Oakland, Cal. Molding concrete tubes for cable railways	333,755	Jan. 5	358	97	34	67
Isaacson, David, Providence, R. I. Making pictures	335,755	Feb. 9	943	.....	34	616
Isard, Robert S., Hudson, Ohio. Extension-ladder	337 955	Mar. 16	1450	376	34	1200
Isbell, Charles W., New York, N. Y. Apparatus for concentrating ammoniacal liquor	341,578	May 11	850	226	35	671
Isbell, Charles W., New York, N. Y. Concentrating ammoniacal liquor	331,865	Nov. 2	197	55	37	405
Isbell, Robert H., New York, N. Y. Rotary engine	348,247	Aug. 31	2490	670	36	955
Isbester, Caleb B., Chattanooga, Tenn. Device for forming beads in sand molds	344,657	June 29	2668	692	35	1523
Isbester, Richard T., Chattanooga, Tenn. Condenser	349,103	Sept. 14	786	199	36	1194
Isham, Willard S., Burlington, Vt. Rock-drilling machine	335,358	Feb. 2	383	99	34	510
Iske, Albert. (See Iske, Anthony and A.)						
Iske, Anthony and A., assignors of one-half to P. C. and C. S. Snyder, Lancaster, Pa. Burglar-alarm	348,675	Sept. 7	199	52, 53	36	1083
Ismond, Robert E., Chicago, Ill. Stock-car	354,552	Dec. 21	1314	349	37	1260
Ives, Albert J., Aurora, Ill. Door-hanger	343,994	June 22	1749	450	35	1347
Ives, Blakeslee & Co. (See Hotchkiss, Charles A., assignor.)						
Ives, Blakeslee & Co. (See Ritchie, Charles F., assignor.)						
Ives, Charles, assignor of one-half to G. H. Ives, Kirkland, N. Y. Bung	347,046	Aug. 10	781	208	36	617
Ives & Co., Hobart B. (See Ives, Hobart B., assignor.)						
Ives, Edward B., New York, N. Y. Railway-telegraph	353,789	Dec. 7	188	52	37	1042
Ives, Edward R. (See Pilkington, Joseph W., assignor.)						
Ives, Ellsworth D. (See Smith, Charles H., assignor.)						
Ives, Frederick. (See Wells, Edgar J., assignor.)						
Ives, Frederick E., Philadelphia, Pa. Magic lantern	338,074	Mar. 16	1606	418	34	1227
Ives, George H. (See Ives, Charles, assignor.)						
Ives, Hobart B., assignor to H. B. Ives & Co., New Haven, Conn. Sash-fastener	352,617	Nov. 16	1240	336	37	705
Ives, John N., Brooklyn, N. Y. Automatic attachment for gas-stoves	338,155	Mar. 16	1722	449	34	1251
Ivins, Ellwood, Philadelphia, Pa. Button fastener	339,555	Apr. 6	655	158	35	118
Ivins, Henry and L., Streator, Ill. Earth-auger	342,516	May 25	2168	574	35	930
Iwan, Henry and L., Streator, Ill. Liquid-receptacle for canes and the like	344,966	July 6	231	59	36	585
Iwan, Louis. (See Iwan, Henry and L.)						
J. X-L. Pump Company. (See Cline, George J., assignor.)						
Jacker, Maximilian, Florence, Wis. Weldless-chain machine	339,781	Apr. 13	1001	247	35	183
Jackle, Jacob, assignor to F. and J. B. Belcher, Charlotte, Mich. Shoe-fastener or clasp	333,635	Nov. 30	2695	720	37	994
Jackman, Kendall, Genoa, Ill. Check-row corn-planter and drill attachment	351,448	Oct. 26	1945	506	37	372
Jackson, Amos H., Fremont, Ohio. Show-rack	349,255	Sept. 14	985	251	36	1233
Jackson, Andrew G., *et al.* (See Spilman, Baldwin D., assignor.)						
Jackson, Byron, San Francisco, Cal. Horse hay rake and carrier	340,122	Apr. 20	1456	368	35	272

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Pages.
Jackson, Caleb H., Allegheny, assignor to Union Switch and Signal Company, Pittsburg, Pa. Ladder	347,608	Aug. 17	1585	421	36	774
Jackson, Charles A., assignor to D. F. Robinson, Lawrence, Mass. Telephone system	335,588	Feb. 9	702	186 / 187	34	573
Jackson, Charles H., Providence, R. I. Blacking-box	343,033	June 1	360	93	35	1072
Jackson, Daniel. (See White, Jackson, and Van Buren.)						
Jackson, Edward W., Mount Kisco, N. Y. Crupper press and former	345,143	July 6	478	121 / 122	36	87
Jackson, Edwin A., New York, N. Y. Self-closing ash-pan	347,351	Aug. 17	1224	326	36	706
Jackson, Edwin A., New York, N. Y. Ventilating-grate	353,066	Nov. 23	1866	504	37	830
Jackson, Edwin A., New York, N. Y. Stove-damper	354,704	Dec. 21	1544	409	37	1362
Jackson, Francis, Raisinville, Mich. Mechanical movement	337,956	Mar. 16	1452	376	34	1200
Jackson, Francis W. (See Geery, Jackson, and Day.)						
Jackson, George R., assignor to G. W. Gay, Grand Rapids, Mich. Adjustable shelving	340,949	Apr. 27	2625	691	35	489
Jackson, Henry R., Newark, N. J. Sash-fastener	349,431	Sept. 21	1227	318	36	1288
Jackson, J. B., *et al.* (See Taliaferro, Eilbeck H., assignor.)						
Jackson, James, Paterson, N. J. Jacquard machine	351,512	Oct. 26	2044	530	37	392
Jackson, Johiel, Fort Atkinson, Wis. Spring for vehicles	349,221	Sept. 14	934	239 / 240	36	1223
Jackson, John M. (See Smith, Worthington, assignor.)						
Jackson, John P., Liverpool, England. Appliance for filtering water and other liquids	337,584	Mar. 9	963	247	34	1106
Jackson, John W., North Haverhill, N. H. Car-coupling	339,782	Apr. 13	1002	247	35	183
Jackson, Milton, Philadelphia, Pa. Padlock	340,319	Apr. 20	1757	448	35	327
Jackson, Oliver D. (See Gold, Joseph S., assignor.)						
Jackson, Peter H., San Francisco, Cal. Forming artificial stone or concrete arches	339,296	Apr. 6	261	66	35	49
Jackson, R. (See Lidren, Christopher, assignor.)						
Jackson, Sidney W., Cranesville, S. C. Fertilizer-distributer	340,217	Apr. 20	1608	407	35	300
Jackson, Thaddeus A., New York, N. Y. Inserting diamond or carbon points in tools	336,568	Feb. 23	2121	556	34	837
Jackson, Thaddeus A., New York, N. Y. Diamond saw-tooth	341,011	May 4	54	14	35	515
Jackson, William. (See Kittell and Jackson.)						
Jackson, William, Allegheny City, Pa. Balanced slide-valve	345,235	July 6	599	152	36	108
Jackson, William, assignor to J. McClurg, Allegheny, Pa. Machine for arranging crackers	339,656	Apr. 13	825	203	35	152
Jackson, William, assignor to Specialty Manufacturing Company, (limited,) Allegheny City, Pa. Gate-valve	351,918	Nov. 2	278	76	37	508
Jackson, William W., Chicago, Ill. Bung for beer kegs, casks, &c	337,162	Mar. 2	370	97	34	994
Jackson, William W., Chicago, Ill. Bushing-valve and faucet attachment for casks	339,297	Apr. 6	263	66	35	49
Jackson, William W., Chicago, Ill. Faucet	348,914	Sept. 7	508	135	36	1141
Jacob, Frank A., assignor to Arnshaenel & Strong, Indianapolis, Ind. Water-closet cistern	337,835	Mar. 16	1293	332	34	1169
Jacobs, Albert, Chicago, Ill. Motor-engine	351,639	Oct. 26	2238	579	37	428
Jacobs, Armand M., assignor to C. M. Jacobs and A. Loos, New York, N. Y. Coloring compound	342,207	May 18	1684	.....	35	837
Jacobs, Catharina M., *et al.* (See Jacobs, Armand M., assignor.)						
Jacobs, Charles A., assignor to J. E. Patterson and S. Kohn, Toledo, Ohio. Steam-engine	348,563	Sept. 7	40	12	36	1055
Jacobs, Charles P., Indianapolis, Ind. Lath-strip	350,488	Oct. 12	548	152	37	108
Jacobs, Henry, Evansville, Ind. Wagon-box	335,359	Feb. 2	384	99	34	510
Jacobs, Henry E., Fond du Lac, Wis. Governor for water-wheels	339,743	Apr. 13	1003	248	35	183
Jacobs, Henry E., Fond du Lac, Wis. Automatic air-pressure regulator for car-ventilators	350,309	Oct. 5	278	79	37	57
Jacobs, Jacob, New York, N. Y. Illuminating-tile	339,424	Apr. 6	446	109	35	83
Jacobs, Jacob, New York, N. Y. Illuminating-tile	339,425	Apr. 6	448	109	35	83
Jacobs, John F. (See Groninger and Jacobs.)						
Jacobs, John M., *et al.* (See Boggs, Joseph O., assignor.)						
Jacobs, Joseph H., Atchison, Kans. Flying target	349,160	Sept. 14	857	219	36	1208
Jacobs, Joseph M., Baltimore, Md., assignor to Columbia Rubber Company, Boston, Mass. Circular-cloak	342,359	May 25	1938	512	35	890
Jacobs, S. Kirk, *et al.* (See Boggs, Joseph O., assignor.)						
Jacobs, Samuel, assignor of one-half to J. F. Matthai, Baltimore, Md. Car-wheel	336,050	Feb. 9	1357	359	34	690
Jacobs, T. E., *et al.* (See Warner, John P., assignor.)						
Jacobs, Theodore, Norristown, Pa. Liquid-forcing device	349,651	Sept. 21	1511	391	36	1346
Jacobs, Thomas H., and J. Y. Lockwood, St. Louis, Mo. Maize oil-cake	344,275	June 22	2147	.....	35	1418
Jacobs, William E., Columbus, Ohio. Seat for agricultural machines	350,135	Oct. 5	49	13	37	12
Jacobs, William E., Columbus, Ohio. Wheeled road-scraper	350,136	Oct. 5	50	14	37	12
Jacobs, William R., and S. C. Houston, Sulphur Springs, Tex. Railway-gate	343,034	June 1	360	93	35	1072
Jacobs, Zebulon, and W. Horne, Salt Lake City, Utah Ter. Metal-polishing composition	339,426	Apr. 6	449	.....	35	83
Jacobsen, David, Norwich, Conn. Bracket	335,931	Feb. 9	1196	318	34	662
Jacobsen, Hans J., Christiania, Norway. Glass-melting oven	341,103	May 4	177	55	35	537
Jacobson, Andrew, Foster, Minn. Device for releasing animals	347,807	Aug. 24	1882	502	36	837
Jacobus, Pierson, Varick, assignor of one-third to A. Baldridge & Co., McDougalls, N. Y. Harrow and cultivator	336,051	Feb. 9	1358	359	34	690
Jacoby, Ferdinand, New York, N. Y. Shirt	353,067	Nov. 23	1867	504	37	831
Jacoby, William H., *et al.* (See Fuller, Charles A., assignor.)						
Jacot, Charles H., Hoboken, N. J. Automatic safety-check for musical boxes	337,585	Mar. 9	964	247	34	1106
Jacot, Charles H., Hoboken, N. J. Music-box attachment for clocks	347,047	Aug. 10	782	208	36	617
Jacquelin, Ernest, Niort, France. Metallic cap for carriage-axles	339,784	Apr. 13	1004	248	35	183
Jacques, Ernest. (See Fourcault and Jacques.)						
Jacques, Isaié F., San Francisco, Cal. Ironing-machine	341,484	May 11	713	192	35	644
Jacubzick, William F. (See Sieben and Jacubzick.)						
Jadwin, Orlando H., New York, N. Y. Cable-traction for street-cars	340,320	Apr. 20	1758	448 / 449	35	327
Jaeger & Co. (See Jaeger, Julius, assignor.)						
Jaeger, Julius, assignor to Jaeger & Co., Rutherford, N. J. Screw-faucet	347,609	Aug. 17	1586	421	36	775
Jaeggi, Urs. V., Auburn, South Australia. Calendar-clock	339,657	Apr. 13	827	203	35	152
Jägel, Julius M., Brooklyn, N. Y. Underground conduit for electric conductors	338,971	Mar. 30	2858	735	34	1468
Jagel, Julius M., Brooklyn, N. Y. Electric subway	349,797	Sept. 28	1739	448	36	1393
Jahant, August, and D. Parker, Akron, Ohio. Coffee-pot handle	336,323	Feb. 16	1786	467	34	770
Jahnke, August, Osceola, Iowa. Horseshoe	340,879	Apr. 27	2536	667	35	473
Jalageas, Jules C., administrator. (See Camus, Henri.)						
James, Charles C. (See James, Charles W. and C. C.)						
James, Charles W., and C. C. James, deceased, (E. C. James, administrator,) Dayton, Ohio. Door for combination-cars	344,276	June 22	2147	550 / 551	35	1418
James, David, Jefferson, Ill. Machine for wiring the edges of sheet-metal vessels	348,396	Aug. 31	2127	732	36	1001
James, De Witt C., Warren, Pa. Car-axle	352,411	Nov. 9	976	262	37	648
James, De Witt C., Warren, Pa. Railway-signal	352,412	Nov. 9	976	263	37	648

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
James, Edwin C., administrator. (See James, Charles W. and C. C.)						
James, George. (See Collicson, Samuel A., assignor.)						
James, Jack W., Cuba, Tenn. Bathing-machine	350,489	Oct. 12	549	152, 153	37	108
James, Jack W., Cuba, Tenn. Bathing apparatus	350,490	Oct. 12	551	153	37	109
James, Lycurgus L., Medora, Ind. Whiffletree	342,965	June 1	269	70	35	1055
James, Thomas, and C. M. Schwab, Braddock, Pa. Heating and melting furnace	335,200	Feb. 2	160	41	34	470
James, Winfield E., assignor of two-thirds to J. S. Downing and J. Camp, South Oil City, Pa. Check-rein attachment	338,230	Mar. 16	1820	476	34	1269
Jameson, J. B., *et al.* (See Brown, Thomas J., assignor.)						
Jameson & Martz, *et al.* (See Black, Henry, assignor.)						
Jameson & Martz, *et al.* (See Black and Miller, assignors.)						
Jamison, B. K., *et al.* (See Wright, William A., assignor.)						
Jamison Boot and Shoe Crimping Machine Company, S. W. (See Jamison, Samuel W., assignor.)						
Jamison, John P., Cambridgeport, Mass. Wood-ornamentation	335,589	Feb. 9	707	188	34	574
Jamison, Samuel S., Saltsburg, Pa. Apparatus for regulating the temperature of milk or cream vats	348,016	Aug. 24	2188	582	36	893
Jamison, Samuel W., Boston, Mass., assignor to S. W. Jamison Boot and Shoe Crimping Machine Company, New York, N. Y. Crimping-machine for boots or shoes	341,913	May 18	1302	348	35	766
Jamison, Thomas, assignor of one-third to W. J. Hanley, St. Louis, Mo. Car-coupling	344,316	June 22	2201	566	35	1428
Jandrue, Lewis E., Marlborough, Mass. Bridle	343,585	June 15	1200	301	35	1238
Janka, Johann, Prague, Bohemia. Windlifter	351,603	Oct. 26	2186	564	37	418
Janotte, Joseph, assignor of one-half to T. Tetreault, Worcester, Mass. Valve	353,068	Nov. 23	1867	505	37	831
Janowitz, Julius, assignor to I. B. Kleinert, New York, N. Y. Dress-shield	335,225	Feb. 2	202	53	34	476
Jansen, Diederich W., Joplin, Mo. Breech-loading gun	341,751	May 11	1079	287, 288	35	717
Janvier, Edwin P., Still Pond, Md. Gage-wheel attachment for drill-teeth	333,858	Jan. 5	493	134	34	92
Japtok, Carl, New York, N. Y. Ash-sifter	334,172	Jan. 12	951	257	34	183
Jaques, Luther C., Stuart, Nebr. Plow	339,658	Apr. 13	829	203	35	153
Jarecki Manufacturing Company. (See Anderson, George H., assignor.)						
Jarecki Manufacturing Company. (See McFeely, Ronald F., assignor.)						
Jargensen Lars. (See Bolton and Jargensen.)						
Jarman, George R., Baltimore, Md., assignor to G. W. S. Loucks and W. H. Wheeler, York, Pa. Ice-machine	349,798	Sept. 28	1740	449	36	1393
Jarnagin, John S., Mossy Creek, Tenn. Machine for filing prescriptions	335,457	Feb. 2	513	134	34	533
Jarrell, William, assignor of one-half to W. H. Dodson, Humboldt, Tenn. Churn	334,229	Jan. 12	1046	278	34	202
Jarriant, Benoit, Paris, France, assignor, by mesne assignments, to Chemical Electric Light and Power Company, Portland, Me. Galvanic battery	349,222	Sept. 14	936	240	36	1224
Jarves, Deming, Detroit, Mich. Apparatus for making ammonia	344,184	June 22	2023	517	35	1396
Jarves, Deming, Detroit, Mich. Device for stopping leaks in vessels	349,719	Sept. 28	1630	420	36	1373
Jarvis, John G. (See Kipper and Jarvis.)						
Jarvis, John G., Adams, Mass., assignor to American Zylonite Company, New York, N. Y. Manufacture of zylonite and other pyroxyline compounds and articles made therefrom	342,208	May 18	1684		35	837
Jarvis, John G., assignor to American Zylonite Company, Adams, Mass. Collar or cuff	343,903	June 15	1624	414	35	1317
Jarvis, Samuel E., Lansing, Mich. Traction-engine	336,412	Feb. 16	1908	500	34	794
Jarvis, William D. F., Philippi, W. Va. Calculating device	338,075	Mar. 16	1607	419	34	1228
Jay, Pierre E., New York, N. Y. Apparatus for generating steam	344,277	June 22	2150	551	35	1419
Jebb, William T. (See Schuman, John C., assignor.)						
Jebb, William T., Buffalo, N. Y. Manufacturing malt liquors from starch	347,611	Aug. 17	1589	422	36	775
Jebb, William T., Buffalo, N. Y. Manufacturing malt liquors from starch	347,612	Aug. 17	1591		36	775
Jeffers, Annie M., Chicago, Ill. Fire escape	334,230	Jan. 12	1047	278	34	203
Jeffers, Harry L., Manchester, Iowa. Street indicator for street-railway cars	344,047	June 22	1828	469	35	1360
Jefferson, Cornelius. (See Jefferson, Joseph, C., L., and M.)						
Jefferson, Joseph, C., L., and M., Bradford, county of York, England. Combing-machine	353,224	Nov. 23	2089	559	37	875
Jefferson, Lazarus. (See Jefferson, Joseph, C., L., and M.)						
Jefferson, Mordecai. (See Jefferson, Joseph, C., L., and M.)						
Jeffery, Alfred, Brooklyn, N. Y. Gearing for operating pumps	335,201	Feb. 2	161	42	34	470
Jeffery, Frank M., Jersey City, N. J. Riveting-machine	348,397	Aug. 31	2730	732, 733	36	1002
Jeffery, Franklin C. (See Hinkle and Jeffery.)						
Jeffery, George, assignor to T. P. Tuite, Detroit, Mich. Electric-arc lamp protector	349,999	Sept. 28	2010	519	36	1446
Jeffery, Joseph A. (See Miller, Charles V., assignor.)						
Jeffery, Thomas B., Ravenswood, Ill. Velocipede	335,590	Feb. 9	709	188	34	574
Jeffery, Thomas B., Chicago, Ill. Bicycle	352,190	Nov. 9	693	185	37	593
Jeffery, Thomas B., Chicago, Ill. Lantern-hanger for bicycles	352,191	Nov. 9	696	186	37	594
Jeffery, Thomas B., Chicago, Ill. Velocipede-saddle	354,907	Dec. 28	1830	493	37	1367
Jefferys, Albert, Philadelphia, Pa. Shoe-maker's jack	350,137	Oct. 5	52	14, 15	37	12
Jefferys, John C. W., Holloway, county of Middlesex, England. Button	335,226	Feb. 2	203	53	34	476
Jefferys, John C. W., Hargrave Park Road, Holloway, county of Middlesex, England. Button or other analogous article	350,491	Oct. 12	553	154	37	109
Jefferys, Thomas S. (See Hoke, Quinton J., assignor.)						
Jeffrey, Albert D., assignor of one-half to W. Sanderson, Brooklyn, N. Y. Mechanical movement	339,893	Apr. 13	1145	285	35	211
Jeffrey, Henry D., and J. Liver, assignors to themselves, C. A. Bierce, and F. B. Holbrook, Winona, Minn. Bob-sleigh	337,586	Mar. 9	965	247	34	1106
Jeffrey, Joseph A. (See Dierdorff, Henry B., assignor.)						
Jeffrey, Joseph A. (See Legg, Benjamin A., assignor.)						
Jeffrey, Joseph A., Columbus, Ohio. Drive-chain	336,921	Mar. 2	54	14	34	936
Jeffrey, Joseph A., Columbus, Ohio. Conveyer	340,321	Apr. 20	1759	449, 450	35	327
Jencks, Welcome, Manchester, N. H. Thread-guide support for ring-spinning frames	334,441	Jan. 19	1343	364	34	263
Jenkens, Charles A., New Berne, N. C. Adjustable bedstead	335,360	Feb. 2	385	100	34	511
Jenkin, Fleeming, deceased, Edinburgh, Scotland, J. I. Peyton, Washington, D. C., administrator. Mechanism for transporting goods, &c., by electricity	343,319	June 8	795	199, 200, 201, 202	35	1159
Jenkins, Edward W., Norristown, Pa. Grain-binder	347,938	Aug. 24	2080	552	36	873
Jenkins, Francis E., Frankville, Ga. Back-band buckle for plow-harness	345,306	July 13	706	178	36	133
Jenkins, Frank W., Brooklyn, assignor to W. A. Perry and C. C. Worthington, New York, N. Y. Piston water-meter	338,972	Mar. 30	2859	755, 756	34	1468
Jenkins, Hiram H., South Abington, Mass. Device for conveying shoe-shanks from the forming-machine	341,914	May 18	1303	348	35	767
Jenkins, Jabez, Philadelphia, Pa. Dynamo-electric machine	350,000	Sept. 28	2011	519	36	1446

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Jenkins, Joel, Montclair, N. J. Pencil-sharpener	335,819	Feb. 9	1034	273	34	633
Jenkins, Joel, Montclair, N. J. Safety-pin machine	345,144	July 6	479	122	36	87
Jenkins, Joel, Montclair, N. J. Safety-pin	345,848	July 20	1509	391	36	283
Jenkins, Joel, Montclair, N. J. Safety-pin machine	349,223	Sept. 14	937	240	36	1224
Jenkins, Joel, Montclair, N. J. Safety-pin machine	349,224	Sept. 14	941	241	36	1224
Jenkins, Joel, Montclair, N. J. Safety-pin-heading machine	349,225	Sept. 14	943	241	36	1225
Jenkins, Joel, Montclair, N. J. Machine for making safety-pins	349,226	Sept. 14	946	242	36	1225
Jenkins, Joel, Montclair, N. J., and E. H. Gaylord, Waterbury, Conn.; said Gaylord assignor to said Jenkins. Safety-pin machine	344,837	July 6	55	13, 14	36	11
Jenkins, John S., Jackson, Ga. Planter and fertilizer-distributer	349,799	Sept. 28	1741	449	36	1394
Jenkins, Monroe R., Red Creek, N. Y. Hay-fork	348,744	Sept. 7	285	76	36	1100
Jenkins, Marion R., Browning, Mo. Telegraph-key	351,834	Nov. 2	142	40	37	485
Jenkins, Nicholas, Waterbury, assignor to Holmes, Booth & Haydens, New Haven, Conn. Suspension device for lamps	347,613	Aug. 17	1592	422	36	776
Jenkins, Nicholas, assignor to Holmes, Booth & Haydens, Waterbury, Conn. Stand-lamp	349,501	Sept. 21	1326	344	36	1308
Jenkins, Simeon T., and T. J. McGuire, Baltimore, Md. Box	345,510	July 13	994	251	36	184
Jenkins, Simeon T., and T. J. McGuire, Baltimore, Md. Packing-box for transporting ripe fruit	346,162	July 27	1942	500	36	372
Jenkins, Simeon T., and T. J. McGuire, Baltimore, Md. Packing-box	353,225	Nov. 23	2090	559, 560	37	876
Jenkins, Theodore D., Jersey City, N. J. Fire escape	337,064	Mar. 2	240	64	34	970
Jenkins, William H., Irwin, Colo. Mining-drill	335,591	Feb. 9	710	189	34	574
Jenkins, William L., Boston, Mass. Practice-tablet for stenographers	342,102	May 18	1565	418	35	815
Jenkins, William R., Jr., Bellefonte, Pa. Car-coupling	350,746	Oct. 12	909	244	37	172
Jenkinson, George B. (See Dennis, Theodore A., assignor.)						
Jenkinson, Richard C., Newark, N. J. Sheet-metal handle for traveling-bags	342,360	May 25	1939	512	35	891
Jenks, James, and T. J. Hart, Detroit, Mich. Injector	342,604	May 25	2285	604	35	953
Jenks, James, and T. J. Hart, Detroit, Mich. Injector	347,245	Aug. 10	1058	283	36	667
Jenks, Lemuel P., Boston, Mass. Combination-padlock	344,109	June 22	1919	491	35	1377
Jenks, William J. (See Ward and Jenks.)						
Jenne, William K., Ilion, N. Y., assignor to Type Writer Company. Type-writing machine	349,349	Sept. 21	1094	280	36	1264
Jenner, Edward C., Allegan, Mich. Door-operator	349,592	Sept. 21	1443	372	36	1331
Jenney, Charles D., Indianapolis, Ind. Holder for commutator-brushes	342,441	May 25	2051	541	35	910
Jenney, Charles D., Indianapolis, Ind. Electric lamp	354,639	Dec. 21	1453	385, 386	37	1284
Jenney Electric Company. (See Adams, John S., assignor.)						
Jenney Electric Company. (See Hickley, Arthur S., assignor.)						
Jenney, James A., assignor to Fort Wayne Electric Light Company, Fort Wayne, Ind. Arc-lamp regulator	334,023	Jan. 12	728	198, 199	34	144
Jenni, Thomas, Allegheny, Pa. Steam-engine	338,076	Mar. 16	1609	419	34	1228
Jennings, Arthur O., Southport, Conn. Stop-watch	352,326	Nov. 9	870	234	37	626
Jennings, Arthur O., Southport, Conn., assignor of one-half to M. E. Seawell, Washington, D. C. Cab-register	334,780	Jan. 26	1812	482	34	372
Jennings, Benton L., Manhattan, Kans. Clevis	336,484	Feb. 16	2005	526	34	810
Jennings, David, Lyons, N. Y. Merry-go-round	345,787	July 20	1424	369	36	260
Jennings, David, Lyons, N. Y. Car-starter	350,138	Oct. 5	54	15	37	13
Jennings, Ebenezer, *et al.* (See Coyle, Charles J., assignor.)						
Jennings, Franklin A., *et al.* (See Strait, Andrew V., assignor.)						
Jennings, Henry J. (See Harthan, Warren P., assignor.)						
Jennings, John, assignor to K. C. Jennings, Cañon City, Colo. Rock-drilling machine	342,605	May 25	2287	605	35	953
Jennings, Kittie C. (See Jennings, John, assignor.)						
Jennings, Linnaeus C., St. Louis, assignor of one-half to H. F. Hafer, St. Charles, Mo. Grip-slot closer for cable railways	345,594	July 13	1136	290	36	210
Jennings, Linson D. (See Tourgee and Jennings.)						
Jennings, Linson D., *et al.* (See Tourgee, Albion W., assignor.)						
Jennings & Sons, A. G. (See Ward, Anthony, assignor.)						
Jensen, Carl L., Philadelphia, Pa. Machine for making medicinal tablets, &c	354,319	Dec. 14	989	263	37	1193
Jensen, Christopher, Holdrege, Nebr. Pump	346,206	July 27	2005	517	36	384
Jensen, Goodmand. (See Hess and Jensen.)						
Jensen, John C., and F. A. Johnson, Chicago, Ill. Garment-supporter	352,325	Nov. 9	869	234	37	626
Jensen, Nicholas, Milwaukee, Wis. Derrick	352,543	Nov. 16	1136	306	37	686
Jeppesen, Jens, Moreland, Ill. Stock-car	343,711	June 15	1391	347	35	1272
Jeralds, Silas E., and E. R. Lawton, Cheshire, Conn. Handle for cutlery	336,116	Feb. 16	1462	385	34	715
Jeralds, Silas E., and E. R. Lawton, Cheshire, Conn. Manufacture of handles for cutlery	341,915	May 18	1304	318	35	767
Jerome, Alonzo W., Paxton, Ill. Device for tearing wrapping-paper from continuous rolled sheets	354,981	Dec. 28	1930	511	37	1387
Jerome, Charles C., Chicago, Ill. Rod and piston packing	344,008	July 6	170	40	36	29
Jervis, John, St. Paul, Minn. Switch-stand	340,719	Apr. 27	2322	611	35	434
Jerzmanowski, Erazm J., New York, N. Y. Process of and apparatus for producing gas	333,859	Jan. 5	494	134, 135	34	92
Jerzmanowski, Erazm J., New York, N. Y. Producing gas	333,860	Jan. 5	495	135, 136	34	92
Jerzmanowski, Erazm J., New York, N. Y. Apparatus for producing illuminating-gas	341,012	May 4	54	14, 15	35	515
Jerzmanowski, Erazm J., New York, N. Y. Gas apparatus	343,995	June 22	1750	450	35	1347
Jerzmanowski, Erazm J., New York, N. Y. Producing illuminating-gas	343,996	June 22	1751	451	35	1347
Jesson, Pierre A., Paris, France. Machine for stitching hides or skins	352,024	Nov. 2	427	115	37	538
Jessop, George W., Pittsburg, Pa. Safety device for inclined railways	336,117	Feb. 16	1463	385, 386	34	715
Jessup, George W., Cinnaminson, N. J. System of irrigation	346,920	Aug. 10	606	163	36	585
Jester, Andrew E., Jester, Tenn. Gate-latch	349,350	Sept. 21	1096	280	36	1264
Jester, Andrew E., Jester, Tenn. Gate-hinge	351,513	Oct. 26	2045	531	37	393
Jett, Milton C., Washington, Ind. Clod crusher and pulverizer	353,408	Nov. 30	2359	628	37	931
Jewell, Ammi M., San Francisco, Cal. Stave-jointing attachment for molding-machines	335,756	Feb. 9	944	248	34	616
Jewell, Collin F. (See Benninghoff and Jewell.)						
Jewell, Gustavus W., and R. M. Dickson, Earl Park, Ind. Check-rower for corn-planters	335,361	Feb. 2	386	100	34	511
Jewell, William H. (See Rankin, Abram G. W., assignor.)						
Jewett, Amory, Somerville, Mass. Bullet-mold	354,422	Dec. 14	1117	300	37	1218
Jewett, Daniel M. (See Crane and Jewett.)						
Jewett, Dewitt C., Sand Spring, Iowa. Hay-loader	348,398	Aug. 31	2732	733	36	1002
Jewett, Edward M., assignor to himself and E. Michael, Buffalo, N. Y. Machine for jointing compressed bent staves	335,074	Jan. 26	2261	585	34	427
Jewett, Edward M., assignor to E. W. Jewett, Buffalo, N. Y. Box-forming machine	347,299	Aug. 10	1141	305	36	683

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Jewett, Edward W. (See Jewett, Edward M., assignor.)						
Jewett, Frederic A., assignor of one-half to C. L. Leonard, Grafton, Mass. Horse and cattle cleaner	354,145	Dec. 14	728	195	37	1146
Jewett, George M., Bridgeport, Conn. Hinge	344,967	July 6	232	59	36	42
Jewett, Josiah, Buffalo, N. Y. Heating-stove	348,218	Aug. 31	2494	670	36	955
Jewett, Luther K., Boston, Mass. Railway-rail holder	341,916	May 18	1305	349	35	767
Jewitt, Thomas, Milford, Mich. Flower vase and stand	343,904	June 15	1626	415	35	1317
Jewitt, William G. (See Beaver and Jewitt.)						
Jillson, James D., Willimantic, Conn. Adjustable chimney	334,587	Jan. 19	1548	414	34	300
Jinkins, William M., Redding, Miss. Bale-tie	335,932	Feb. 9	1196	318	34	662
Jobbins, William F. (See Van Raymbeke, Joseph, assignor.)						
Jochum, William. (See Buob and Jochum.)						
Joel, Henry. (See Joel, Rosa and H.)						
Joel, Rosa and H., Jersey City, N. J. Washing-machine	354,062	Dec. 7	598	164	37	1115
Johanson, Olof, New York, N. Y. Stem-winding device for watches	351,919	Nov. 2	279	76	37	508
Johanson, Olof, New York, N. Y. Stem-winding device for watches	351,920	Nov. 2	279	77	37	508
Johansson, Carl A., Stockholm, Sweden. Apparatus for effecting emulsion of fats with milk, &c	336,324	Feb. 16	1787	467	34	770
Johansson, Carl A., assignor to Company Aktiebolaget Separator, Stockholm, Sweden. Device for taking up end-pressure of rotating shafts	335,757	Feb. 9	945	249	34	616
John, August, assignor of two-thirds to F. and A. Krauser, Massillon, Ohio. Drilling-machine	335,758	Feb. 9	946	249	34	617
Johns, David W., Columbus, Ohio. Fire-kindler	348,326	Aug. 31	2633	710	36	983
Johns, James M., Glenmore, Ga. Automatic fan	337,587	Mar. 9	967	248	34	1106
Johns, James W., Whitehouse, Cramond Bridge, near Edinburgh, Scotland. Canister-shot	341,245	May 4	383	106	35	576
Johns Manufacturing Company, H. W. (See Fries, William A., assignor.)						
Johns, Will R., assignor to F. M. Rowe and R. Sager, Rockford, Ill. Trace-carrier	337,957	Mar. 16	1453	376	34	1200
Johnson, Albert E., Southbridge, Mass. Knife	342,697	May 25	2418	640	35	978
Johnson, Alfred. (See Johnson, Frederic G. and A.)						
Johnson, Alfred E. (See Hopkins and Johnson.)						
Johnson, Andrew C., Rockford, Ill. Veneering-machine	352,131	Nov. 9	601	159, 160	37	578
Johnson, Andrew F., Dassell, Minn. Sash-balance	334,868	Jan. 26	1922	511	34	377
Johnson, Andrew G. (See Maloney and Johnson.)						
Johnson, Andrew J., assignor to Pocket and Stationary Fire Escape Company, Chicago, Ill. Fire-escape	338,750	Mar. 30	2557	675, 676	34	1412
Johnson, Arthur J. (See Jukes, Elias H., assignor.)						
Johnson, Bernt M., Racine, Wis. Combined seeder and cultivator	348,399	Aug. 31	2734	733, 734	36	1003
Johnson, Charles A., assignor of one-half to C. H. Von Stockenstrom, St. Paul, Minn. Fastening device for vehicle-hubs	336,520	Feb. 16	2049	538	34	818
Johnson, Charles C., Springfield, Vt., assignor to Morgan Envelope Company, Springfield, Mass. Paper-roll holder and cutter	335,202	Feb. 2	162	42	34	470
Johnson, Charles C., assignor to Morgan Envelope Company, Springfield, Vt. Toilet-paper fixture	343,321	June 8	808	204	35	1160
Johnson, Charles H., West Sutton, Mass. Vessel for condensing beer and other liquors	333,952	Jan. 5	623	170	34	117
Johnson, Charles R. (See Johnson, Henry and C. R.)						
Johnson, Charles R., and L. D. Carr, St. Mary's, Ohio. Barrel-head fastening	337,685	Mar. 9	1080	279	34	1127
Johnson, Charles W., Lovington, Ill. Kitchen-cabinet	344,909	July 6	162	41	36	30
Johnson, Cornelia, Cleveland, Ohio. Apparatus for assisting roller-skaters	335,031	Jan. 26	2141	569	34	416
Johnson, Daniel A., Boston, Mass. Nut-lock	344,380	June 29	2298	592	35	1453
Johnson, Daniel A., Boston, Mass. Carriage-axle washer	349,593	Sept. 21	1443	372	36	1331
Johnson, Daniel M., Morven, N. C. Cultivator, distributer, and planter	343,275	June 3	732	182	35	1147
Johnson, Delbert E., Chicago, Ill. Track-laying apparatus	354,146	Dec. 14	729	196, 197	37	1146
Johnson, Delbert E., assignor of one-half to J. D. Lott and M. Dodge, De Kalb, Ill. Track-laying apparatus	347,808	Aug. 24	1883	502, 503	36	837
Johnson, Dewitt C., and W. A. Mosher, Lock Haven, Pa. Door-plate	354,195	Dec. 14	812	216	37	1162
Johnson, Edward H., New York, N. Y. Device for transmitting power from electric motors	335,285	Feb. 2	281	74	34	490
Johnson, Edward H., New York, N. Y. Electrical switch	339,298	Apr. 6	265	66	35	49
Johnson, Edward H., New York, N. Y. Telephone-transmitter	341,579	May 11	852	220	35	671
Johnson, Edward H., New York, N. Y. Electrical conductor	354,320	Dec. 14	992	263	37	1193
Johnson, Edward H., assignor to Bergmann & Company, New York, N. Y. Electrical connecting device	342,751	May 25	2500	665	35	993
Johnson Electric Service Company. (See Johnson, Warren S., assignor.)						
Johnson Electric Service Company. (See Johnson, Warren S., assignor.) (Reissue.)						
Johnson, Elijah D., Milton, Fla. Saw-mill dog	342,370	May 25	1940	512	35	891
Johnson, Enos H., assignor to M. B. Derrick and Andrews & Johnson, Chicago, Ill. Rotary fan	354,063	Dec. 7	598	164	37	1115
Johnson, Ferdinand. (See Simms, Henry W., assignor.)						
Johnson, Frank A. (See Jensen and Johnson.)						
Johnson, Frank B., Brooklyn, N. Y. Scissors cutting-gage	339,785	Apr. 13	1005	248	35	183
Johnson, Frank G., New York, N. Y. Pavement	340,123	Apr. 20	1458	369	35	272
Johnson, Frank G., New York, N. Y. Railway-tie	354,147	Dec. 14	732	197	37	1147
Johnson, Frank P., Eyer's Grove, Pa. Thill-coupling	346,759	Aug. 3	266	73	36	513
Johnson, Frederic G. and A., Hanley, county of Stafford, England. Link-press for making earthenware, &c	349,432	Sept. 21	1228	318	36	1288
Johnson, Frederick L., Wallingford, Conn. Top	346,921	Aug. 10	607	163	36	585
Johnson, George C., Fort Bragg, Cal. Whiffletree-clip	346,589	Aug. 3	173	47	36	493
Johnson, George C., Fort Bragg, Cal. Whiffletree-hook	346,590	Aug. 3	174	47	36	494
Johnson, George D. (See Bryan, Walter S., assignor.)						
Johnson, George E., Albion, Ind. Gasometer	337,065	Mar. 2	241	64	34	970
Johnson, George E., Albion, Ind. Mixing and vaporizing device for inhalers	337,066	Mar. 2	243	65	34	970
Johnson, George F., Philadelphia, Pa. Roller-skate	334,231	Jan. 12	1048	278, 279	34	203
Johnson, George F., Philadelphia, Pa. Seed-planter	353,949	Dec. 7	432	118	37	1085
Johnson, George H. (See Devero, John W., assignor.)						
Johnson, George H. (See Hincks and Johnson.)						
Johnson, Greenleaf, Jr., Baltimore, Md. Planing and matching machine	338,973	Mar. 30	2863	756, 757, 758	34	1468
Johnson, Henry, Flixton, county of Lancaster, England. Apparatus for operating railway-signals	343,320	June 8	802	202, 203	35	1160

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Pages.
Johnson, Henry, The Willows, Flixton, county of Lancaster, England. Signal apparatus for railway-points, &c	342,911	June 1	189	48, 49	35	1039
Johnson, Henry, The Willows, Flixton, county of Lancaster, England. Apparatus for actuating interlocking gear for railway point and signal levers	344 482	June 29	2432	625	35	1477
Johnson, Henry and H. A., and J. T. Cade, Flixton, county of Lancaster, England. Mechanism for controlling signals, &c	334,232	Jan. 12	1049	279 280	34	203
Johnson, Henry, Flixton, county of Lancaster, England, and C. R. Johnson, Pittsburg, Pa. Mechanism for operating railway switches and signals	347,939	Aug. 24	2083	553	36	874
Johnson, Henry A. (See Johnson and Cade.)						
Johnson, Henry C., Meadville, Pa. Fireproofing for safes, vaults, and chambers	343,637	June 15	1266	319	35	1250
Johnson, Henry C., Meadville, Pa. Apparatus for extinguishing fires	352,192	Nov. 9	697	186	37	594
Johnson, Henry C., Meadville, Pa., assignor to Consolidated Refrigerating Company, New York, N. Y. Apparatus for cooling beer	345,059	July 6	369	93	36	67
Johnson, Henry J., assignor to Providence Steam Engine Company, Providence, R. I. Mechanism for regulating steam-engines	335,933	Feb. 9	1197	318 319	34	662
Johnson, Herbert O. (See Newton, Henry, assignor.)						
Johnson, Hiram S., Portland, Me. Spring-connection for bed-springs and spring-beds	333,756	Jan. 5	359	97	34	67
Johnson, Isaac D., Kennett Square, Pa. Invalid-bed. (Reissue)	10,773	Oct. 19	1770	465	37	336
Johnson, Isaac W., New Richmond, Wis. Mortising-machine	345,637	July 13	1198	310	36	222
Johnson, Iver. (See Torkelson, Reinhard T., assignor.)						
Johnson, Iver, Worcester, Mass. Ejector for fire-arms	339,299	Apr. 6	266	67	35	49
Johnson, Iver, Worcester, Mass. Revolver	339,300	Apr. 6	267	67	35	50
Johnson, Iver, and A. Fyrberg, Worcester, Mass.; said Fyrberg assignor to said Johnson. Fire-arm	350,681	Oct. 12	826	223 224	37	157
Johnson, Iver, R. T. Torkelson, and A. Fyrberg, Worcester, Mass.; said Torkelson and Fyrberg assignors to said Johnson. Revolver	339,301	Apr. 6	269	67	35	50
Johnson, Iver, R. T. Torkelson, and A. Fyrberg, Worcester, Mass.; said Torkelson and Fyrberg assignors to said Johnson. Revolver	345,974	July 20	1679	434 435	36	315
Johnson, J. Wood, New Brunswick, N. J. Lint-machine	349,845	Sept. 28	1808	467	36	1408
Johnson, James G., assignor of one-half to G. A. Knorn, Springfield, Ill. Draw-bridge	343,322	June 8	809	204	35	1161
Johnson, James O., Wolcott, Ind. Chock-block	340,880	Apr. 27	2536	667	35	473
Johnson, James P., Virden, Ill. Whiffletree	338,529	Mar. 23	2229	585	34	1350
Johnson, James P., Raccoon Valley, Tenn. Clod-crusher and harrow	338,974	Mar. 30	2866	758	34	1469
Johnson, James P., Willmar, Minn. Field-seeder	345,903	July 20	1584	409	36	297
Johnson, James Y., Glasgow, Scotland. Combined collar-stud and necktie-holder	341,104	May 4	178	56	35	537
Johnson, John A. (See Johnson, William B. and J. A.)						
Johnson, John A., Madison, Wis. Plow	346,288	July 27	2117	544	36	406
Johnson, John A., Madison, Wis. Cultivator	347,273	Aug. 10	1090	294	36	675
Johnson, John B. (See Thomson and Johnson.)						
Johnson, John B., Holly Springs, Miss. Jack for replacing ties upon bales	344,659	June 29	2671	693	35	1523
Johnson, John C., Atlantic City, N. J. Aerated-water fountain	353,862	Dec. 7	297	78	37	1061
Johnson, John H., *et al.* (See Collins, Joseph S., assignor.)						
Johnson, John H., Chicago, Ill. Stop and waste cock	354,148	Dec. 14	735	198	37	1148
Johnson, John H., assignor of one-half to C. J. Ward, Chicago, Ill. Binding for books	353,562	Nov. 30	2585	690	37	975
Johnson, John T., Kellerton, assignor of one-half to C. B. Morris, Mount Ayr, Iowa. Scaffolding-support	352,873	Nov. 16	1581	427	37	770
Johnson, John W., Pendleton, Mo. Car-coupling	339,659	Apr. 13	829	204	35	153
Johnson, John W., Burlington, Vt. Toboggan	353,309	Nov. 30	2211	592	37	904
Johnson, John W. P., Gardiner, Me. Belt-clamp	351,514	Oct. 26	2046	531	37	393
Johnson, Jonathan, Lowell, Mass. Boiler for steam-heaters	338,670	Mar. 23	2425	639 640	34	1383
Johnson, Joseph B., Rockford, Mich. Whiffletree-hook	350,492	Oct. 12	555	154	37	109
Johnson, Joseph S., Baltimore, Md. Fish-trap	355,269	Dec. 28	2347	618	37	1467
Johnson, Joseph T., Horace, Ill. Coffee-roaster	339,660	Apr. 13	830	204	35	153
Johnson, Joseph W., and F. B. Thatcher, Bridgeport, Conn., assignors, by mesne assignments, to Ætna Stopper Company, Pawtucket, R. I. Bottle-stopper	344,278	June 22	2153	551	35	1420
Johnson, Lenson, Vincennes, Ind. Combined wagon-seat and feed-trough	348,974	Sept. 14	597	158	36	1162
Johnson, Louis K., Brooklyn, assignor to Alden Type Machine Company, New York, N. Y. Compositor's type-case	336,646	Feb. 23	2234	582	34	856
Johnson, Louis K., Brooklyn, assignor to Alden Type Machine Company, New York, N. Y. Compositor's type-case	336,647	Feb. 23	2236	583	34	856
Johnson, Louis K., Brooklyn, assignor to Alden Type Machine Company, New York, N. Y. Compositor's galley-stick	342,442	May 25	2053	541	35	911
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-distributing apparatus	336,645	Feb. 23	2231	582	34	855
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Compositor's type and space holder	336,719	Feb. 23	2330	610 611 612	34	875
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-distributing apparatus	337,406	Mar. 9	707	184 185	34	1063
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-distributing apparatus	337,407	Mar. 9	712	185	34	1063
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-distributing apparatus	340,124	Apr. 20	1459	369 370	35	273
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type holder and separator	340,125	Apr. 20	1463	370	35	273
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Apparatus for distributing type	354,149	Dec. 14	737	198 199	37	1148
Johnson, Lucius E., Aurora, Ill. Lantern	338,077	Mar. 16	1609	419	34	1228
Johnson, Melvin L., assignor of one-half to R. H. Brown, West Mansfield, Ohio. Carpet-fastener	349,278	Sept. 14	1009	258	36	1238
Johnson, Monroe E., Pittsburg, Kans. Weather-boarding gage	338,156	Mar. 16	1723	450	34	1251
Johnson, Monroe E., Pittsburg, Kans. Wagon-tongue support	344,910	July 6	163	41	36	30
Johnson, Monroe E., Pittsburg, Kans. Churn	346,163	July 27	1943	500	36	372
Johnson, Nils, Superior, Wis. Vegetable-masher	352,132	Nov. 9	604	160	37	578
Johnson, Oscar B. (See Johnson, William H. and O. B.)						
Johnson, Price, Hutsonville, Ill. Pipe-wrench	355,270	Dec. 28	2348	618	37	1467
Johnson, Priscilla C., Indianapolis, Ind. Portable wardrobe	352,994	Nov. 23	1754	470	37	510
Johnson, Robert, and J. F. Buerkel, Boston, Mass. Car-starter	354,640	Dec. 21	1457	386	37	1284
Johnson Steel Street Rail Company. (See Du Pont, Alfred V., assignor.)						
Johnson, Thomas J., Fort Worth, Tex. Curry-comb	343,323	June 8	811	204	35	1161
Johnson, Thomas N., Rome, N. Y. Ironing-table	337,686	Mar. 9	1081	280	34	1127
Johnson, Tom L., Cleveland, Ohio. Cable-railway construction	333,953	Jan. 5	624	170 171	34	117

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Johnson, Tom L., Cleveland, Ohio. Wire-crimping machine	346,479	Aug. 3	39	10	36	468
Johnson, Tom L., Cleveland, Ohio. Curve-rail for railway-tracks	348,017	Aug. 24	2189	583	36	893
Johnson, Virginie M. T. (See Randon, François, assignor.)						
Johnson, Warren S., Whitewater, assignor to Johnson Electric Service Company, Milwaukee, Wis. Electric valve	342,018	May 18	1435	385	35	790
Johnson, Warren S., Whitewater, assignor to Johnson Electric Service Company, Milwaukee, Wis. Hydraulic air-compressor	349,594	Sept. 21	1444	372	36	1332
Johnson, Warren S., assignor to Johnson Electric Service Company, Milwaukee, Wis. System of temperature-regulation. (Reissue.)	10,768	Sept. 28	2141	554 / 555	36	1471
Johnson, Warren S., Whitewater, assignor to Johnson Electric Service Company, Milwaukee, Wis. Electric valve	351,702	Oct. 26	2316	602	37	444
Johnson, Warren S., assignor to Johnson Electric Service Company, Milwaukee, Wis. Temperature-regulator	352,057	Nov. 2	472	128	37	548
Johnson, Warren S., assignor to Johnson Electric Service Company, Milwaukee, Wis. System of temperature-regulation	352,874	Nov. 16	1582	427 / 428	37	770
Johnson, Warren S., Whitewater, and C. L. Fortier, Milwaukee, Wis. Signal system for telephone-exchanges	335,934	Feb. 9	1200	319	34	662
Johnson, William A., Jadden, Ind. Squeezer and strainer	344,446	June 29	2383	613	35	1469
Johnson, William B. and J. A., Wigan, county of Lancaster, England. Compound locomotive-engine	351,921	Nov. 2	280	77, 78	37	508
Johnson, William C., Philadelphia, Pa. Cap for flasks, &c	340,443	Apr. 20	1916	493	35	357
Johnson, William H., Westborough, Mass. Cream-separator	337,266	Mar. 2	512	134	34	1021
Johnson, William H., Manchester, county of Lancaster, England. Wall, roof, partition, &c	344,381	June 29	2300	592 / 593	35	1453
Johnson, William H., and O. C. Mann, assignors of one-third to G. E. Marvine, Delhi, N. Y. Clothes-pin	344,110	June 22	1921	491	35	1377
Johnson, William H. and O. B., assignors to W. F. Kuhn, Indianapolis, Ind. Locking-leg for bed-lounges	351,034	Oct. 19	1346	354	37	259
Johnson, William J., Newton, assignor to National Manufacturing Company, Boston, Mass. Vegetable-masher	338,600	Mar. 23	2324	609	34	1365
Johnson, Willis H., Springfield, Ill. Car-starter	336,922	Mar. 2	55	15	34	936
Johnston, Albert S., Sprague, Wash. Ter. Blotter	351,266	Oct. 19	1652	434	37	315
Johnston, Allen, Ottumwa, Iowa. Screw-machine	337,499	Mar. 9	854	216 / 217	34	1086
Johnston, Allen, Ottumwa, Iowa. Under braider for sewing-machines	341,485	May 11	714	192	35	645
Johnston, Allen, Ottumwa, Iowa. Ruffling and gathering attachment for sewing-machines	349,279	Sept. 14	1010	258	36	1238
Johnston, Charles C., Columbus, Ohio. Blacking-box	344,447	June 29	2383	614	35	1469
Johnston, Edward H. (See Reifl, Gustavus N., assignor.)						
Johnston, Edward H., assignor to Wharton Railroad Switch Company, Philadelphia, Pa. Interlocking switch and signal mechanism for railways	349,161	Sept. 14	859	220 / 221	36	1209
Johnston, Frederick D. (See Friede and Johnston.)						
Johnston, George, Detroit, Mich. Lens-tester	337,333	Mar. 2	607	159	34	1038
Johnston, George, Detroit, Mich. Eyeglass-frame	348,018	Aug. 24	2190	583	36	893
Johnston, George, San Francisco, Cal. Apparatus for automatically feeding wine-casks in cellars	340,786	Apr. 27	2408	635	35	450
Johnston, George W., Flemington, N. J. Jar	339,556	Apr. 6	656	158	35	118
Johnston, George W., Boonville, Mo., assignor of one-half to O. and H. E. Knight, Washington, D. C. Type-writing machine	340,881	Apr. 27	2537	668	35	473
Johnston, George W., Boonville, Mo., assignor of one-half to O. and H. E. Knight, Washington, D. C. Type-writing machine	340,882	Apr. 27	2538	668	35	473
Johnston Harvester Company. (See Arnold, Samuel, assignor.)						
Johnston Harvester Company. (See Cooley, Orville, assignor.)						
Johnston Harvester Company. (See Johnston, Homer, assignor.)						
Johnston, Homer, assignor to Johnston Harvester Company, Batavia, N. Y. Grain-binder	352,091	Nov. 2	527	141	37	558
Johnston, Jacob K. (See McAlier and Johnston.)						
Johnston, James A., Topeka, Kans. Vehicle-wheel	349,435	Sept. 21	1231	319	36	1289
Johnston, James C., Glenfield, assignor of one-half to R. B. Davis, Pittsburg, Pa. Machine for making cigar-bunches	341,807	May 11	1146	304	35	729
Johnston, James C., Glenfield, assignor of one-half to R. B. Davis, Pittsburg, Pa. Machine for making cigar-bunches	341,808	May 11	1148	304	35	730
Johnston, James F. (See Ritch, John P., assignor.)						
Johnston, James L., Topeka, Kans. Vehicle-hub	349,433	Sept. 21	1229	319	36	1289
Johnston, James L., Topeka, Kans. Combined spoke-socket and tire-fastener	349,434	Sept. 21	1230	319	36	1289
Johnston, James M., assignor to N. C. Baughman, York, Pa. Fertilizer-distributer	344,279	June 22	2154	552	35	1420
Johnston, James M., assignor to N. C. Baughman, York, Pa. Planter and seeder	347,614	Aug. 17	1593	422 / 423	36	776
Johnston, John J., Boston, Mass. Can-soldering apparatus	345,638	July 13	1200	311	36	222
Johnston, John S., New York, N. Y. Photographic camera	350,682	Oct. 12	830	224	37	158
Johnston, John S., Alton, assignor to Pfauschmidt, Dodge & Co., Chicago, Ill. Washboard	351,866	Nov. 2	199	56	37	495
Johnston, Joseph. (See Scovill, George W., assignor.)						
Johnston, Joseph, Hudson, assignor of one-half to J. E. Erwin, Kinnickinnick, Wis. Threshold	340,510	Apr. 20	2020	518	35	375
Johnston, Lysander, assignor of one-half to J. E. Coe, Danville, Ill. Steam-boiler furnace	333,954	Jan. 5	625	171	34	117
Johnston, Otto. (See Keller, Abraham L., assignor.)						
Johnston, Samuel, Brockport, N. Y. Harvesting and binding machine	338,273	Mar. 23	1878	494	34	1288
Johnston, Sylvester T. (See Holmes, Robert E. L., assignor.)						
Johnston, Tallman & Co. (See Ritchel, Charles F., assignor.)						
Johnston, William, Menominee, Mich. Spring-vehicle	351,775	Nov. 2	63	17	37	470
Johnston, William, assignor to himself, J. Fleshiem, and H. O. Fifield, Menominee, Mich. Car-coupling	350,060	Sept. 28	2095	542	36	1462
Johnston, William A., Clifton, and A. W. Browne, Westfield, N. Y., assignors to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dentist's chair	340,787	Apr. 27	2409	635	35	451
Johnston, William M. (See Deal, Josiah J., assignor.)						
Johnston, William M. (See Merrifield, Charles E. assignor.)						
Johnston, William T., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet-sweeper	354,908	Dec. 28	1832	484	37	1368
Johnstone, George D., *et al.* (See Whaley, Thomas, assignor.)						
Johnstone, Huger W., Idlewild, Ga. Car-coupling	343,712	June 15	1392	347	35	1272
Johnstone, Huger W., Idlewild, Ga. Car-coupling	344,658	June 29	2669	692	35	1523
Johnstone, Huger W., Idlewild, Ga. Car-coupling	349,652	Sept. 21	1511	392	36	1346
Johnstone, William H., Philadelphia, Pa. Stretcher for conveying wounded persons	338,349	Mar. 23	1984	522 / 523	34	1307

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Joliet Wire Check Row Company. (See Peacock, Elijah P., assignor.)						
Jolin, Philip. (See Thompson and Jolin.)						
Jolliffe, William H., Baltimore, Md. Combined awning and blind	336,009	Feb. 9	1299	345	34	680
Joly, Charles C. (See Lloyd, Edwin L., assignor.)						
Joly Stopper Company. (See Rehfuss, John G., assignor.)						
Joly Stopper Company. (See Rehfuss, Martin O., assignor.)						
Jonas, Frank B., New Orleans, La., assignor of one-half to W. A. Wright, Baltimore, Md. Swinging gate	346,050	July 20	1786	460	36	333
Jones, Allen R., Milwaukee, Wis. Steam-boiler furnace	352,327	Nov. 9	871	234	37	626
Jones, Alonzo B., Jeffersonville, Ind. Folding table	346,660	Aug. 3	267	73	36	513
Jones, Andrew D. (See Blakeney and Compton, assignors.)						
Jones, Arthur J., Middleburg, Va. Planter	335,525	Feb. 2	606	158	34	548
Jones, Augustus H., Meriden, Conn. Handle for drawers	339,894	Apr. 13	1147	285	35	212
Jones, C. George, Ripley, Me. Road scraper attachment for vehicles	339,661	Apr. 13	831	204	35	153
Jones, C. George, Ripley, Me. Attachment for road-scrapers	352,133	Nov. 9	605	160	37	578
Jones, Caleb, Richland Springs, Tex. Churn	345,060	July 6	370	93	36	68
Jones, Charles A., assignor, by mesne assignments, of two-thirds to T. F. Keenan and P. W. Croake, Chicago, Ill. Combined seeder, fertilizer, and cultivator	342,103	May 18	1565	418	35	815
Jones, Charles S., Chicago, W. W. Crooker, Waukegan, and F. Artos, Chicago, Ill. Applying electricity for destroying living organisms in the bodies of slaughtered animals	337,334	Mar. 2	608	159	34	1038
Jones, Charles T., Utica, N. Y. Driving mechanism for sewing-machines	336,648	Feb. 23	2237	583	34	856
Jones, Charles T., deceased, (J. T. Jones administrator,) Utica, assignor to himself, and F. L. Lathrop, Ilion, N. Y. Bottle-faucet	354,150	Dec. 14	746	200	37	1149
Jones, Curtis P., Old Lyme, Conn. Music-leaf turner	343,663	June 15	1297	326	35	1256
Jones, David, Paris, assignor of one-half to S. W. Cooley, Henry County, Tenn. Hollow grate and feed-water heater	340,916	Apr. 27	2579	679 / 680	35	481
Jones, David L., Chicago, Ill. Heating-furnace	334,781	Jan. 26	1814	482 / 483	34	358
Jones, Edward C., Boston, Mass. Sounding-bar	345,698	July 20	1292	335	36	245
Jones, Edward C., Kansas City, Mo. Railway	349,846	Sept. 28	1810	467 / 468	36	1408
Jones, Evan E., Pittsburg, Pa. Furnace	344,317	June 22	2202	566	35	1428
Jones, Evan R., Birmingham, Ala. Axle for car-wheels	343,905	June 15	1626	415	35	1318
Jones, Florentine A. (See Blanchard and Jones.)						
Jones, Florentine A., Malden, Mass. Recording pressure-gage	340,581	Apr. 27	2129	549 / 550	35	402
Jones, Florentine A., Malden, Mass. Recording pressure-gage	343,177	June 8	592	147	35	1123
Jones, Florentine A., Malden, Mass. Recording pressure-gage	344,448	June 29	2384	614	35	1469
Jones, Florentine A., Malden, Mass. Recording pressure-gage	345,061	July 6	371	93, 94	36	68
Jones, Florentine A., Malden, Mass. Recording pressure-gage	348,219	Aug. 31	2496	671 / 672	36	956
Jones, Francis W., New York, N. Y. Induction-coil	344,318	June 22	2204	566	35	1428
Jones, Frederick. (See Thompson and Jones.)						
Jones, George, Chicago, Ill. Steam-heater	344,968	July 6	233	59, 60	36	42
Jones, George, Chicago, Ill. Fire-grate	347,352	Aug. 17	1225	326	36	707
Jones, George, and H. W. Trognitz, Williamsport, Pa. Mirror-frame	351,515	Oct. 26	2048	531	37	393
Jones, George S. (See Bancroft and Horsfall, assignors.)						
Jones, George W., Brooklyn, N. Y. Umbrella or parasol	334,588	Jan. 19	1549	414	34	300
Jones, George W., and F. F. Green, Comanche, Tex. Hub	351,776	Nov. 2	65	17	37	471
Jones, Gilbert E., New York, N. Y. Printer's galley	344,741	June 29	2779	719	35	1542
Jones, Gomer. (See Gogin and Jones.)						
Jones, Halcott P., Hillsborough, N. C. Danger-signal	352,618	Nov. 16	1241	336	37	705
Jones, Harry, Richmond, Ind. Lifting-pump	345,145	July 6	482	123	36	88
Jones, Harry, Richmond, Ind. Pump-cylinder	354,993	Dec. 28	1034	511	37	1388
Jones, Harvey L., assignor of one-half to R. Anderson, Coffeyville, Kans. Calf-weaner	349,104	Sept. 14	787	199	36	1195
Jones, Henry F., Ransom, Ill. Cultivator and pulverizer	351,984	Nov. 2	371	101	37	525
Jones, Henry Z. (See Zehring and Jones.)						
Jones, Horace K., Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Manufacture of screw-nails	335,131	Feb. 2	46	12	34	449
Jones, Horace K., Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Manufacture of drive-screws	335,132	Feb. 2	48	13	34	449
Jones, Horace K., Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Wire stock for nails	335,133	Feb. 2	49	13	34	449
Jones, Horace K., Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Drive-screw	335,286	Feb. 2	283	75	34	491
Jones, Horace K., Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Wire-nail	348,126	Aug. 24	2341	628	36	922
Jones, Horace K., Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Metal-screw machine	354,603	Dec. 21	1395	369 / 370 / 371	37	1274
Jones, J. Edward, *et al.* (See Breed, Zephaniah, assignor.)						
Jones, J. Thomas, administrator. (See Jones, Charles T.)						
Jones, Jacob J., New York, N. Y. Heel for boots and shoes	339,060	Mar. 30	3002	794	34	1491
Jones, James, Dublin, county of Dublin, Ireland. Hose	334,233	Jan. 12	1051	280	34	204
Jones, James E., Blood's Depot, N. Y. Cider-press	348,019	Aug. 24	2191	584	36	893
Jones, James H., assignor to Emerson, Talcott & Co., Rockford, Ill. Stalk-cutter	336,811	Feb. 23	2454	644	34	898
Jones, James H., assignor to Emerson, Talcott & Co., Rockford, Ill. Stalk-cutter	337,335	Mar. 2	609	160	34	1038
Jones, James H., assignor to Emerson, Talcott & Co., Rockford, Ill. Horse hay-rake	343,538	June 8	1120	282 / 283	35	1217
Jones, James H., assignor to Emerson, Talcott & Co., Rockford, Ill. Manufacture of harvester finger-bars	353,636	Nov. 30	2696	720	37	994
Jones, James M. (See Higham, Enos T. and D., assignors.)						
Jones, James S., Crutchfield, Ky. Wagon-bed hoist	349,502	Sept. 21	1327	344	36	1302
Jones, John B., assignor of one-third to Carton Furnace Company, Utica, N. Y. Stove or furnace-grate	347,714	Aug. 17	1753	467	36	804
Jones, John J. (See Daugherty, Albert C., assignor.)						
Jones, John M., Palmyra, N. Y. Cylinder printing-machine	344,111	June 22	1921	492	35	1378
Jones, John R., Emporia, Kans. Truss	343,816	June 15	1515	382	35	1295
Jones, John S., Brooklyn, N. Y. Conductor for mechanical telephones	353,683	Dec. 7	45	12	37	1015
Jones, John S., Brooklyn, N. Y. Conductor for mechanical telephones	353,684	Dec. 7	46	12	37	1015
Jones, John T., Iron Mountain, Mich. Blank for nails	339,189	Apr. 6	103	28	35	21
Jones, John T., Iron Mountain, Mich. Blank for nails	339,190	Apr. 6	103	29	35	21
Jones, John T., Iron Mountain, Mich., assignor of one-half to P. L. Kimberly, Sharon, Pa. Blank for staples	339,191	Apr. 6	104	29	35	21

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Jones, John W., Glasco, Kans. Harness-pad machine	348,327	Aug. 31	2634	710	36	984
Jones, John W., 78 Ambler Road, Finsbury Park, county of Middlesex, England. Heel-machine	352,649	Nov. 16	1285	346	37	712
Jones & Laughlins. (See Kennedy, Robert W., assignor.)						
Jones, Lavenia D., Lafayette, Ind. Steam-cooking utensil	345,307	July 13	707	178	36	133
Jones, Leander S., Fultonville, N. Y. Hay-carrier	341,147	May 4	241	72	35	549
Jones, Levi, Hendersonville, N. C. Mill and fish dam	348,127	Aug. 24	2342	628	36	922
Jones, Levin T., Baltimore, Md. Shoe-brushing machine	347,715	Aug. 17	1754	467	36	805
Jones, Lorenzo D., Waukegan, Ill. Whip-rack	352,467	Nov. 9	1045	281	37	662
Jones, Lucian B., Bedford, assignor to Forsaith Electrical Machine Company, Manchester, N. H. Machine for winding armatures	350,828	Oct. 12	1033	276	37	196
Jones, Lucian B., Bedford, assignor to Forsaith Electrical Machine Company, Manchester, N. H. Junction-clamp for electric wires	350,829	Oct. 12	1035	276	37	196
Jones, Marcus R., assignor of one-half to E. Mayer, Washington, D. C. Indicator for drop-letter boxes	353,139	Nov. 23	1973	527	37	852
Jones, Owen W., New Cambria, Mo. Device for preserving eggs	333,636	Jan. 5	181	49	34	36
Jones, Perry A., Seymour, Ind. Cuff-holder	352,757	Nov. 16	1428	385	37	741
Jones, Reuben, assignor of three-fourths to C. A. Sindall, Atlanta, Ga. Car-coupling	342,517	May 25	2169	574	35	930
Jones, Reuben, assignor of three-fourths to C. A. Sindall, Atlanta, Ga. Car-coupling	350,061	Sept. 28	2097	542	36	1463
Jones, Reuben, assignor of three-fourths to C. A. Sindall, Atlanta, Ga. Car-coupling	350,062	Sept. 28	2098	543	36	1463
Jones, Richard, Utica, N. Y. Car-coupling	354,553	Dec. 21	1316	349	37	1260
Jones, Richard B. (See Wetherell and Jones.)						
Jones, Richard F., St. Louis, Mo. Electric-arc lamp	355,172	Dec. 28	2207	582, 583	37	1439
Jones, Richard W., Syracuse, N. Y. Combined buckle and strap-loop	334,870	Jan. 26	1923	512	34	377
Jones, Richard W., Syracuse, N. Y. Hame-clip staple and tug-iron	338,751	Mar. 30	2559	676	34	1413
Jones, Richard W., Syracuse, N. Y. Strap-loop protector	341,917	May 18	1306	349	35	767
Jones, Robert, Shuqualak, Miss. Lifting-jack	355,173	Dec. 28	2209	583	37	1440
Jones, Robert R., Blossburg, Pa. Carpet-stretcher	334,665	Jan. 19	1660	443	34	321
Jones, Robert V., Cleveland, Ohio. Rail-joint	351,324	Oct. 19	1733	455	37	329
Jones, Samuel, What Cheer, Iowa. Machine for drilling stone	341,013	May 4	55	15	35	516
Jones, Sebra M. (See Chapman, Horace P., assignor.)						
Jones, Septimus W., Williamsport, Pa. Velocipede	344,449	June 29	2385	614	35	1469
Jones, Stephen, Minneota, Minn. Car-coupling	346,551	Aug. 3	128	34, 35	36	484
Jones, Thomas E., Centre Star, Ala. Plow	338,844	Mar. 30	2686	708	34	1437
Jones, Thomas O., 1 Welford Terrace, Brooke Road, Upper Clapton, county of Middlesex, England. Apparatus for cleaning boots and shoes	338,157	Mar. 16	1724	450	34	1251
Jones, Washington, assignor to C. A. Inglis, Lancaster, Pa. Tobacco-booking machine	339,662	Apr. 13	832	204, 205	35	153
Jones, Wiley, Norfolk, Va. Boot or shoe stretcher	352,134	Nov. 9	606	160	37	579
Jones, William. (See Lineff and Jones.)						
Jones, William, San Francisco, Cal. Kiln for burning bricks, &c	336,720	Feb. 23	2336	612	34	876
Jones, William A., assignor of one-half to G. W. Percy, San Francisco, Cal. Electric-light reflector or reflectors	344,532	June 29	2510	646, 647	35	1490
Jones, William H., assignor of three-fourths to G. A. Gray, Montreal, Quebec, Canada. Pocket-rule	354,865	Dec. 21	1763	466	37	1344
Jones, William R., Braddock, Pa. Feeding appliance for rolling-mills	340,917	Apr. 27	2580	680	35	481
Jones, William R., Braddock, Pa. Gas-furnace for boilers	341,014	May 4	57	15, 16	35	516
Jones, William R., Braddock, Pa. Manufacturing railway-rails	350,594	Oct. 12	698	189	37	134
Jones, Willis, assignor to G. H. Hyde, New York, N. Y. Paper-cutter	339,895	Apr. 13	1148	285	25	212
Jones, Woodruff & Co. (See Shaffer, Charles H., assignor.)						
Jongewaard, Ringert, Harrison, Dak. Ter. Aerial navigation	338,173	Mar. 16	1743	455, 456	34	1255
Jonson, Julius. (See Robertson and Jonson.)						
Jonson, Julius, New York, N. Y. Riveting-machine	353,140	Nov. 23	1974	527	37	852
Jönsson, Oscar F., Stockholm, Sweden. Automatic safety circuit-controller	338,752	Mar. 30	2561	676	34	1413
Jönsson, Oscar F., Stockholm, Sweden. Indicator for electric circuits	341,918	May 18	1306	349	35	767
Jönsson, Oscar F., Stockholm, Sweden. Electric-arc lamp	343,242	June 8	682	169	35	1139
Jopling, James, What Cheer, Iowa. Coal-chute	352,694	Nov. 16	1352	365	37	725
Jopson, George W. (See Crandall, Nathan W., assignor.)						
Jopson, George W. (See Crandall and Jopson.)						
Jopson, George W., Meriden, Conn. Calipers	343,178	June 8	593	148	35	1123
Joralemon, J. C. (See Hines, Thaddeus W., assignor.)						
Joralemon, Joseph. (See Denslow, William H., assignor.)						
Jordan, Ambrose L., Ottawa, Ill. Hay-carrier	347,178	Aug. 10	973	259	36	652
Jordan, David C., David City, Nebr. Pounder washing-machine	347,716	Aug. 17	1756	468	36	805
Jordan, Dina and R., New York, N. Y. Hair-crimper	350,232	Oct. 5	210	60	37	44
Jordan, Edward, Ottawa, Ill. Sleigh-runner	352,092	Nov. 2	528	141	37	558
Jordan, Edward B. (See Schmiedl, Anton, assignor.)						
Jordan, George, New York, N. Y. Paint composition	355,019	Dec. 28	1983	.....	37	1396
Jordan, Jesse, and I. C. Plant, Macon, Ga. Seal-lock	350,885	Oct. 12	1109	295, 296	37	209
Jordan, Jesse, and I. C. Plant, Macon, Ga. Seal for seal-locks	350,886	Oct. 12	1111	296	37	210
Jordan, Joseph, Bridgeport, Pa. Composition for sizing paper	336,569	Feb. 23	2122	.....	34	837
Jordan, Joseph, Bridgeport, Pa. Machine for coating paper, &c	345,236	July 6	599	152	36	108
Jordan, Louis P., Stanberry, and C. B. Stough, King City, Mo. Mechanical motor	335,396	Feb. 2	434	112	34	519
Jordan, Louise, *et al.* (See Hunter, Thomas M., assignor.)						
Jordan, Martin V., and C. O. Cole, Letts, Iowa. Check-row attachment for corn-planters	335,075	Jan. 26	2202	585	34	427
Jordan, Martin V., and C. O. Cole, Letts, assignors of one-third to G. L. Ramsey, Algona, Iowa. Corn-planter	341,752	May 11	1081	288	35	718
Jordan, Peter, Brooklyn, N. Y. Gage-knife	343,522	June 8	1099	276	35	1213
Jordan, Robert W., Mount Sterling, Ala. Corn-planter	349,162	Sept. 14	861	221	36	1209
Jordan, Rudolph. (See Jordan, Dina and R.)						
Jory, Hugh S., Salem, Oreg. Fruit-drier	339,557	Apr. 6	657	159	35	118
Jory, John G., Baltimore, Md. Rural advertising-sign	340,788	Apr. 27	2411	635	35	451
Joseph, Charles, Jeffersonville, Ind. Furniture-clamp	339,061	Mar. 30	3003	794	34	1491
Joslin, Alexander D., Chicago, Ill. Hand-stamp	342,362	May 25	1940	512, 513	35	891
Joslin, Isaac R., New York, N. Y. Resawing-machine	340,444	Apr. 20	1917	493, 494	35	357
Josselyn, John A., assignor of one-half to A. L. Twichell, Brookfield, Ill. Scrap-leather splitting machine	339,990	Apr. 13	1282	320	35	235
Josz, César F., Bockenheim, assignor to V. Emden, Frankfort-on-the-Main, Germany. Producing printing-plates	334,234	Jan. 12	1052	.....	34	204

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Jovine, Giuseppe, Naples, Italy. Letter-box and collecting-pouch	336,052	Feb. 9	1359	359, 360	34	690
Jowell, George R., Thorp's Spring, Tex. Anti-friction wagon-slide	346,373	July 27	2234	573	36	428
Joy, Lewis B., Bath, N. Y. Grinding-mill	338,416	Mar. 23	2081	545, 546	34	1323
Joyce, Jacob O., Dayton, Ohio. Vise	349,289	Sept. 14	1011	258	36	1238
Joyce, Maurice, Washington, D. C. Stereotype-block	345,433	July 13	889	221	36	165
Joyce, Roger, Buffalo, N. Y. Trap for refrigerator drip-pipes	342,518	May 25	2170	574	35	930
Joyce, Thomas, Scranton, Pa. Balanced piston for steam-cylinders	342,966	June 1	270	70	35	1055
Joyner, Isaac. (See Walther, Henry, assignor.)						
Judd, Edward C., *et al.* (See Gordon, William, assignor.)						
Judd, Edward M., Wallingford, Conn. Clock-case	340,950	Apr. 27	2626	692	35	489
Judd, Edwin Y., Hartford, Conn. Milk-jar	353,069	Nov. 23	1870	505	37	831
Judd, George E., and A. Pickens, Ionia, Mich. Whiffletree	343,817	June 15	1516	382	35	1296
Judd, John, Cherry Valley, N. Y. Trellis-hook	334,706	Jan. 19	1715	457	34	331
Judge, George. (See Phenix, William, assignor.)						
Judge, John, Washington, D. C. Making and attaching collars to military blouses	352,468	Nov. 9	1046	281	37	662
Judkins, Mark D., Osakis, Minn. Fire-back for cooking and other stoves	343,243	June 8	684	170	35	1140
Judson, Frederick H., Harewood, Deepdene Road, Streatham, county of Surrey, England. Show-case	348,164	Aug. 24	2397	643	36	932
Judson, Junius, Rochester, N. Y. Lathe	346,164	July 27	1944	501	36	372
Judson, Junius, Rochester, N. Y. Governor	349,847	Sept. 28	1812	468	36	1409
Juillerat, Charles E., New York, N. Y. Automatic check for musical boxes	343,767	June 15	1460	365	35	1285
Juillerat, Charles E., New York, N. Y. Picture-exhibiting musical box	355,089	Dec. 28	2087	548	37	1415
Jukes, Elias A., St. Catharines, assignor of one-half to A. J. Johnson, Toronto, Ontario, Canada. Automatic cut-off for gas-burners	340,951	Apr. 27	2627	962	35	489
Jukes, Hamilton A., Winnipeg, Manitoba, Canada. Car-coupling	355,174	Dec. 28	2210	583	37	1440
Julian, John H., Troy, Ohio. Permutation-padlock	336,858	Feb. 23	2512	663	34	910
Julian, John H., Troy, Ohio. Permutation-padlock	353,031	Nov. 23	1811	485	37	820
Julien, Edmond, Brussels, Belgium. Secondary electric battery	347,300	Aug. 10	1144	306	36	683
Julien, Joseph S. (See Waldron, Willard A., assignor.)						
Jullien, Alfred, Paris, France. Making blanks for the bottoms of cartridge-cases	337,771	Mar. 9	1188	.....	34	1145
Jullien, Jules T., Montelimar, France. Manufacture of fertilizers	354,983	Dec. 28	1935	.....	37	1388
Jungbauer, John, and G. J. Seielstad, Jackson, Minn. Earth-auger	351,703	Oct. 26	2317	602	37	444
Jüngermann, William, Stapleton, N. Y. Toy trumpet	350,493	Oct. 12	556	154	37	109
Junk, Webster, Mount Sterling, Ohio. Shock or bundle compressor	352,758	Nov. 16	1429	385	37	741
Junker, Carl, assignor to Junker & Ruh, Carlsruhe, Germany. Rotary shuttle for sewing-machines	341,333	May 4	510	140	35	598
Junker, Jules, Philadelphia, Pa. Baking-oven	349,653	Sept. 21	1513	392	36	1346
Junker & Ruh. (See Junker, Carl, assignor.)						
Junkerman, Otto, Centralia, Ill. Pump	347,112	Aug. 10	881	233	36	635
Jürgensen, Christopher P., Copenhagen, Denmark. Rotary engine	334,235	Jan. 12	1053	280	34	204
Jürgensen, Christopher P., Copenhagen, Denmark. Rotary engine	341,850	May 11	1210	324	35	742
Jürgensen, Jacob F. C., Meldorf, Germany. Horse-detacher	339,104	Mar. 30	3066	811	34	1502
Jurick, George, Hoboken, N. J. Clothes-line clamp	350,980	Oct. 19	1248	332	37	241
Jury, F. Herrman, New York, N. Y. Sash-holder	343,997	June 22	1752	451	35	1348
Just, John A., New York, F. A. Fletcher and C. F. Gibbs, Watertown, N. Y.; said Just and Gibbs assignors to said Fletcher. Bleaching mechanical wood-pulp and other raw vegetable fibers for the purpose of manufacturing paper	348,165	Aug. 24	2398	.....	36	932
Just, John A., New York, F. A. Fletcher and C. F. Gibbs, Watertown, N. Y.; said Just and Gibbs assignors to said Fletcher. Bleaching vegetable fiber for the manufacture of paper, &c	354,477	Dec. 14	1195	.....	37	1232
Juvenet, Jules, New Orleans, La. Machine for removing the fiber from jute, &c	352,977	Nov. 23	1731	464	37	805
Kaack, Henry, *et al.* (See Kugler, Henry, assignor.)						
Kaczander, Leopold, New York, and R. Ruddy, Mount Vernon, assignors to Nathan Manufacturing Company, New York, N. Y. Lubricator	337,500	Mar. 9	859	217	34	1087
Kaczerowski, Franz, assignor to G. M. Clark & Company, Chicago, Ill. Lantern-frame	354,151	Dec. 14	746	200	37	1149
Kade, Charles, assignor of one-half to W. Kreicker, Chicago, Ill. Leaf-support for tables	339,427	Apr. 6	449	109	35	84
Kaelin, Albert J., Houston, Tex. Flexible scraper	353,863	Dec. 7	298	78	37	1061
Kaemp, Reinhold H. (See Nagel, Kaemp, and Linnenbrügge.)						
Kafer, John C., Washington, D. C. Car-seat	344,112	June 22	1925	493	35	1378
Kafer, John C., Washington, D. C. Car-seat	344,113	June 22	1926	493	35	1379
Kahler, Carl. (See Sauer and Sievern, assignors.)						
Kahn, Louis. (See Lustig, Adolphus J., assignor.)						
Kaiser, Alexander, Freyburg, Switzerland. Mechanical movement for converting motion	334,173	Jan. 12	952	258	34	184
Kaiser, Charles, and J. B. Adt, Baltimore, Md. Light-deflector	347,113	Aug. 10	881	233	36	635
Kaiser, Jacob, Cleveland, Ohio. Eccentric-shifting mechanism	352,995	Nov. 23	1755	470, 471	37	810
Kaiser, Joseph. (See Kamm and Kaiser.)						
Kaiser, Joseph. (See Snyder, John Y., assignor.)						
Kaiser, Peter, East Dubuque, Ill. Cultivator	352,058	Nov. 2	473	128	37	548
Kaler, George F., Rockland, Me. Lifting-jack	352,650	Nov. 16	1286	346	37	713
Kaler, William A., Larwill, Ind. Steno-telegraph instrument	352,059	Nov. 2	474	129	37	548
Kaliski, Louisa, Buffalo, N. Y. Clothes-boiler	353,563	Nov. 30	2587	691	37	975
Kall, Otto, Heidelberg, Baden, Germany. Mixed paint	351,380	Oct. 26	1816	.....	37	510
Kaltenbeck, William H., Roxbury, N. Y. Car-coupling	354,321	Dec. 14	993	264	37	1194
Kamak, Max. (See Moore, George T., assignor.)						
Kamm, Julius, and J. Kaiser, Highland, Wis. Hoisting-machine	353,564	Nov. 30	2588	691	37	975
Kampf, Matthias, Minier, Ill. Reel for barbed wire	355,090	Dec. 28	2088	548	37	1415
Kampfe, Frederick, *et al.* (See Kampfe, Richard, assignor.)						
Kampfe, Frederick and O., Brooklyn, N. Y. Safety-razor	344,114	June 22	1927	493	35	1397
Kampfe, Frederick, R., and O., Brooklyn, N. Y. Emery-wheel for wet grinding	351,180	Oct. 19	1547	405	37	277
Kampfe, Frederick, O., and R., Brooklyn, N. Y. Safety-razor	354,196	Dec. 14	812	216	37	1162
Kampfe, Otto. (See Kampfe, Frederick and O.)						
Kampfe, Otto. (See Kampfe, Frederick, O., and R.)						
Kampfe, Otto, *et al.* (See Kampfe, Richard, assignor.)						
Kampfe, Richard. (See Kampfe, Frederick, R., and O.)						
Kampfe, Richard, Brooklyn, N. Y. Safety-razor	344,115	June 22	1929	493	35	1379
Kampfe, Richard, assignor to himself, F. and O. Kampfe, Brooklyn, N. Y. Safety-razor	341,420	May 4	624	171	35	618
Kandeler, C. F. Theodor, Chicago, Ill. Bridge	343,377	June 8	906	227	35	1179
Kandeler, C. F. Theodor, Chicago, Ill. Construction of bridges	346,591	Aug. 3	175	47	36	474
Kandeler, C. F. Theodor, Chicago, Ill. Bridge	348,020	Aug. 24	2192	584	36	893
Kandeler, C. F. Theodor, Chicago, Ill. Bridge	348,467	Aug. 31	2832	761, 762	36	1021

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Kane, Bart, Cincinnati, assignor to J. D. Chambers, Cleveland, Ohio. Chasing-mill	348,524	Aug. 31	2916	784	36	1037
Kane, Daniel P. (See Goodman, Henry, assignor.)						
Kane, Frederick L., Brooklyn, N. Y. Roofing-felt	352,619	Nov. 16	1243	336	37	705
Kane, John, assignor to W. Kane, Philadelphia, Pa. Automatic fire-extinguisher	351,267	Oct. 19	1654	434	37	315
Kane, Maurice, Chicago, Ill. Sheaf-carrier for harvesters	348,975	Sept. 14	598	158	36	1163
Kane, Patrick J., Boston, Mass. Manufacture of brushes	347,048	Aug. 10	783	208	36	618
Kane, William. (See Kane, John, assignor.)						
Kangley, John. (See Graves and Kangley.)						
Kantz, Emanuel, *et al.* (See Roscoe, Allison M., assignor.)						
Karelsen, Adolphus E. (See O'Neil, Jeremiah F., assignor.)						
Karicofe, William H., Leetown, W. Va. Corn-harvester	343,768	June 15	1461	{365 366	35	1285
Karns, David M., Bluffton, Ind. Paper-bag holder	338,274	Mar. 23	1883	{494 495	34	1289
Karp, Ida, New York, assignor to herself and M. Rubin, Brooklyn, N. Y. Corset	336,413	Feb. 16	1911	500	34	794
Karras, Louis T., Dresden, Saxony, Germany. Pot lifter	340,126	Apr. 20	1466	370	35	274
Karrer, Adolf. (See Zumsteg, Heinrich, assignor.)						
Karsch, Feodor T., Philadelphia, Pa. Cigar-moulding machine	348,745	Sept. 7	286	76, 77	36	1101
Kartheiser, John F., Lake View, Ill. Gluing-press	344,048	June 22	1829	470	35	1360
Kaspar, Christian, Cleveland, Ohio. Grain-separator	343,324	June 8	812	204	35	1161
Kaspar, Josef, Washington, D. C. Finger-exercising device	351,111	Oct. 19	1449	379	37	275
Kasson, M. Ogden, assignor of one-half to C. F. Bitter, Buffalo, N. Y. Feeding device for grinding-mills, &c	340,789	Apr. 27	2412	635	35	451
Kasson, William O., Cedar Rapids, Iowa. Door-hanger	348,976	Sept. 14	599	158	36	1163
Kattell, Charles W., New York, N. Y. Potato-digger	346,819	Aug. 3	447	{123 124	36	547
Kauffeld, Elias, Pittsburg, Pa. Cooling and refrigerating apparatus	343,035	June 1	361	93, 94	35	1072
Kauffman, Harry C., Richmond, Ind. Combined shutter-fastener and shutter-bower	346,289	July 27	2118	545	36	406
Kauffmann, Charles, *et al.* (See Lochbaum, Norbert, assignor.)						
Kauffmann, Walter B., Detroit, Mich. Necktie-fastener	339,896	Apr. 13	1148	286	35	212
Kaufhold, Henry A., Scranton, Pa. Table-leg fastening	352,328	Nov. 9	872	235	37	626
Kaufholz, John N., Cleveland, Ohio. Railway transfer-table	351,449	Oct. 26	1946	507	37	373
Kaufman, Charles. (See Hinderer, Gustav L., assignor.)						
Kaufman, Daniel, Boiling Springs, Pa. Metallic railway-track	346,998	Aug. 10	704	186	36	603
Kaufman, Joseph, assignor to J. Shamberg, New York, N. Y. Window-guard	347,717	Aug. 17	1758	{468 469	36	805
Kaufmann, Isaiah, *et al.* (See Philippi, Jacob, assignor.)						
Kaufmann, Joseph, New York, N. Y. Water-closet cistern	339,062	Mar. 30	3004	794	34	1491
Kaufmann, Kaufmann, *et al.* (See Philippi, Jacob, assignor.)						
Kauth, Martin. (See Witzig, Charles, assignor.)						
Kauth, Martin, Buffalo, N. Y. Suspending and detaching device	333,757	Jan. 5	360	97	34	67
Kavanagh, Terence B., New York, N. Y. Butter-dish refrigerator	347,049	Aug. 10	784	209	36	618
Kay, George M. (See Thomas and Kay.)						
Kay, James M., *et al.*, trustees. (See Buck, Henry A., assignor.)						
Kay, Moses, Rosedale, Kans. Car-coupling	344,280	June 22	2156	552	35	1420
Kay, William V., Belton, Tex. Manufacture of oil-cake	338,530	Mar. 23	2230	585	34	1350
Kay, William V., Belton, Tex. Harness-saddle	342,104	May 18	1568	418	35	815
Kay, William V., Belton, Tex. Gag-runner	342,105	May 18	1569	419	35	815
Kay, William V., Belton, Tex. Buckle	347,114	Aug. 10	882	233	36	635
Kay, William V., Belton, Tex. Combined buckle and trace or breeching loop	347,115	Aug. 10	883	234	36	635
Kayes, George D., Orange, N. J. Balancing device for roller-skaters	339,786	Apr. 13	1000	248	35	184
Kaylor, Edward, and H. Pruse, Allegheny City, Pa. Pipe-coupling	345,146	July 6	484	123	36	88
Kaylor, John, Decatur, Ill. Check-row corn-planter	340,511	Apr. 20	2021	{518 519	35	375
Kaylor, John, Decatur, Ill. Check-rower for corn-planters	344,116	June 22	1931	494	35	1379
Kaylor, Joseph A. (See Head and Kaylor.)						
Kayser, Charles. (See Kayser, William J. and C.)						
Kayser, John, Kaiserslautern, Bavaria, Germany. Sewing-machine	343 036	June 1	363	94	35	1073
Kayser, William J. and C., Chicago, Ill. Chimney cap and ventilator	335,362	Feb. 2	387	100	34	511
Keane, Frederick H. (See Wilson, David, assignor.)						
Keane, John, San Francisco, Cal. Smoke-consumer	347,615	Aug. 17	1596	423	36	777
Kear, Charles R., Minersville, Pa. Device for scraping or cleansing water or other pipes	354,478	Dec. 14	1196	320	37	1232
Kearney, Patrick J., assignor to himself and T. W. Murray, Boston, Mass. Music-holder	339,897	Apr. 13	1149	286	35	212
Kearns, George T., and J. H. Noble, Hamilton, Ontario, Canada. Smoothing-iron	337,267	Mar. 2	514	134	34	1021
Kearns, John F., Peoria, Ill. Device for preventing the freezing of gas in pipes	337,408	Mar. 9	714	186	34	1063
Kearns, Patrick J., Chicago, Ill. Rotary hammer	351,867	Nov. 2	200	56	37	495
Keasbey, Henry G., *et al.* (See Hanmore, Hiram M., assignor.)						
Keating, Alphonso S., Corry, Pa. Telegraph-sounder	334,871	Jan. 26	1923	{512 513	34	378
Keating, John J., *et al.* (See Cotter, Edward J., assignor.)						
Keating, John M., Philadelphia, Pa. Exercising-machine	350,932	Oct. 19	1170	311	37	227
Keating, Michael, Boston, Mass. Reciprocating chair	354,554	Dec. 21	1317	349	37	1260
Keator, Charles E., Brooklyn, N. Y. Finishing-block for hats	334,236	Jan. 12	1054	280	34	204
Keator, Charles E., Brooklyn, assignor to R. Dunlap, New York, N. Y. Hat-pouncing machine	338,975	Mar. 30	2866	758	34	1469
Keavy, Thomas E. (See Bairstow and Keavy.)						
Keavy, Thomas E., *et al.* (See Megathey, William, assignor.)						
Keavy, Thomas E., Kent, assignor, by mesne assignments, of one-half to A. A. Tillitson, Akron, Ohio. Button-setting instrument	336,859	Feb. 23	2513	663	34	910
Keech, Thomas, New York, N. Y. Dirt collector and remover for wash-basins	335,363	Feb. 2	388	100	34	511
Keedy, John H., West Alexandria, Ohio. Force-feed seed-planter	337,268	Mar. 2	515	135	34	1021
Keegan, Vincent E., Boston, Mass. Electro-magnetic motor	338,976	Mar. 30	2867	758	34	1469
Keegan, Vincent E., Boston, Mass. Electric motor	338,977	Mar. 30	2868	759	34	1469
Keegan, Vincent E., Boston, Mass. Electric motor	349,654	Sept. 21	1515	392	36	1347
Keel, Harry. (See Eaton and Cash, assignors.)						
Keeler, Calvin, Hobart, N. Y. Car-coupling	337,958	Mar. 16	1453	377	34	1200
Keeler, Clark M., Haskins, Ohio. Portable roof	349,887	Sept. 28	1860	480	36	1418
Keeler, David L., Grand Rapids, Mich. Sewing-machine	334,442	Jan. 19	1344	364	34	264
Keeler, George L., Waverly, N. Y. Show-bottle	343,179	June 8	594	148	35	1193
Keeler, Noah, Wallace, N. Y. Potato coverer and cultivator	337,501	Mar. 9	861	217	34	1087
Keeler, Noah, Wallace, N. Y. Potato-digger	341,919	May 18	1307	350	35	768
Keeler, William H. (See Anthony, Edmond, assignor.)						
Keen, George V., *et al.* (See Wagandt, Charles L., assignor.)						
Keen, Walter H., Woodbridge, Cal. Car-coupling	353,565	Nov. 30	2559	691	37	975
Keenan, Charles H., and J. P. Gardner, Fort Halleck, Nev. Horse-detacher	342,106	May 18	1570	419	35	815

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Keenan, Matthew, Armagh Works, Tredegar Road, North Bow, county of Middlesex, England. Boiler-covering	344,117	June 22	1933	.....	35	1380
Keenan, Sanford C., *et al.* (See Beales Emanuel D., assignor.)						
Keenan, Thomas F., *et al.* (See Jones, Charles A., assignor.)						
Keene, Alvin F., Monticello, Minn. Bed-spring	349,310	Sept. 21	1044	267	36	1254
Keene, James M., Wauregan, Conn. Apparatus for clamping and stretching leather and other material	345,699	July 20	1293	335	36	246
Keene, Samuel D., assignor of one-half to New England Butt Company, Providence, R. I. Mote and dirt collecting attachment for carding-machines	334,872	Jan. 26	1926	513	34	378
Keeney, John W., assignor of one-half to J. E. Newberry, Riverside, Cal. Orange-grader	348,138	Aug. 24	2343	628	36	922
Keenholts, Addison, Philadelphia, Pa. Spring bed-bottom	341,246	May 4	385	106	35	576
Keep, James M., New York, N. Y. Pen-rack or pen and pencil holder	340,322	Apr. 20	1763	450	35	328
Keep, William H., Stockton, Cal. Boiler-tube cleaner	343,998	June 22	1753	452	35	1348
Keep, William J. (See Clapp and Keep.)						
Kees, Herman, assignor of two-thirds to G. Fetters and E. Hambujer, Detroit, Mich. Car-coupling	355,175	Dec. 28	2210	583	37	1440
Keesy, George, Schenley Station, Pa. Car-coupling	343,638	June 15	1267	319	35	1250
Keever, Aaron, and F. Remy, Ashland, Ohio. Wagon-brake	343,639	June 15	1268	319	35	1251
Keever, Aaron, and F. Remy, Ashland, Ohio. Wagon-brake	353,685	Dec. 7	46	12	37	1015
Keil, Francis, New York, N. Y. Latch	340,323	Apr. 20	1764	451	35	328
Keilholtz, Pierre O., assignor to J. F. Morrison, Baltimore, Md. Arc-light regulator	348,977	Sept. 14	601	158 / 159	36	1163
Keilholtz, Pierre O., assignor to J. F. Morrison, Baltimore, Md. Carbon-holder for electric-arc lamps	348,978	Sept. 14	603	159	36	1164
Keim, Othniel A., Shenandoah, Pa. Grate	348,129	Aug. 24	2343	629	36	922
Keim, T. Beverly, Reading, Pa. Gage-cock	340,582	Apr. 27	2130	550	35	402
Keiper, Fredrick. (See Iles and Keiper.)						
Keiser, David, Reading, Pa. Stair-rod securer	338,978	Mar. 30	2870	759	34	1470
Keith, Harrison T., assignor of one-half to J. Schaible, Princeton, Ind. Lamp-support	348,746	Sept. 7	287	77	36	1101
Keith, Nathaniel S., San Francisco, Cal. Dynamo-electric machine	353,310	Nov. 30	2211	592	37	904
Kelchner, William W. (See Pursel and Kelchner.)						
Kelcher, James, Willimantic, Conn. Braid roll and case therefor	354,984	Dec. 28	1935	511	37	1388
Kell, Asa, Concord, Mich. Band-truck	350,001	Sept. 28	2013	520	36	1446
Keller, A. Lincoln, Springfield, Mass. Device for testing watch-balances and hair-springs	353,418	Nov. 30	2370	631	37	934
Keller, Abraham L., assignor of one-third to O. Johnston, Elgin, Ill. Stem-winding watch	353,687	Dec. 7	48	13	37	1015
Keller, Abraham L., assignor of one-third to O. Johnston, Elgin, Ill. Pendant-stem for watches	353,749	Dec. 7	135	37	37	1031
Keller, Albert K., Boston, and E. H. Lyon, Chelsea, assignors to American Bell Telephone Company, Boston, Mass. Telephone-transmitter	335,364	Feb. 2	390	101	34	511
Keller, C. Martin, Columbus, Ind. Coke-crusher	341,015	May 4	58	16	35	516
Keller, Constantine. (See Keller and Bauhahn.)						
Keller, David K., Montgomery, Ohio. Pump for wells	348,286	Aug. 31	2581	694	36	973
Keller, David M., Raphine, Va. Cutting apparatus for mowers and reapers	349,105	Sept. 14	788	199	36	1195
Keller, Edouard, assignor to Keller & Gruring-Dutoit, Bienne, Switzerland. Machine for making watch-case rings	333,758	Jan. 5	361	97, 98	34	67
Keller, Emanuel and C., and G. E. Bauhahn, New York, N. Y. Piano-action	346,753	Aug. 3	375	101	36	534
Keller, Emanuel and C., and G. E. Bauhahn, New York, N. Y. Piano-damper	348,676	Sept. 7	200	53	36	1083
Keller, Eugene F., Baraboo, Wis. Door	341,016	May 4	59	16	35	516
Keller & Gruring-Dutoit. (See Keller, Edouard, assignor.)						
Keller, Isaac B., Lebanon, Pa. Shirt	341,017	May 4	60	16	35	517
Keller, John F., Shepherdstown, W. Va. Grain-drill	339,302	Apr. 6	270	67	35	50
Keller, John H. (See Waltjen and Keller.)						
Keller, John H., and T. Wiley, Clyde, Ohio. Carpet-stretcher	334,174	Jan. 12	953	258 / 259	34	184
Keller, Louis. (See Beardsley and Keller.)						
Keller, Louis, New York, N. Y. Gun-case	348,630	Sept. 7	136	38	36	1072
Keller, Michael, Burket, Ind. Machine for making slat and wire fences	340,324	Apr. 20	1766	451	35	328
Keller, Peter, New York, N. Y. Carburetor	353,311	Nov. 30	2213	593	37	905
Keller, William H., Lock Haven, Pa. Fire-proof paint compound	343,906	June 15	1628	.....	35	1318
Kellerhals, John H., Benton City, Mo. Hedge-trimming attachment for harvesting-machines	349,595	Sept. 21	1447	373	36	1332
Kelley, Albert F. (See Eastman, Weston T., assignor.)						
Kelley, Charles H., Revere, assignor of one-half to F. C. Perkins, Somerville, Mass. Seat for wash-tubs	337,001	Mar. 2	162	43	34	954
Kelley, Daniel E., and H. D. Pratt, Gaylord, Kans. Automatic grain-scale	354,423	Dec. 14	1118	300	37	1218
Kelley, John. (See Cypert, Joseph A., assignor.)						
Kelley, John L., Erie, Pa. Boiler-flue cleaner	335,820	Feb. 9	1035	274	34	633
Kelley, Michael J. (See Walker, George D., assignor.)						
Kelley, Thomas H., Cincinnati, Ohio. Photographer's wash-box	339,898	Apr. 13	1150	286	35	212
Kelley, William T., Elberton, Ga. Carpenter's bevel	341,753	May 11	1084	289	35	718
Kellner, Charles. (See Ritter and Kellner.)						
Kellner, Charles, Goertz, Austria-Hungary. Sizing paper	352,759	Nov. 16	1430	.....	37	711
Kellogg, Albert A., Clinton, Mo. Combined latch and lock	343,459	June 8	1026	255	35	1200
Kellogg, Dan W., and W. A. Kirby, Auburn, N. Y. Steam-boiler	355,176	Dec. 28	2211	584	37	1440
Kellogg, Edwin M., Waupun, Wis. Grain-binder	338,417	Mar. 23	2082	546	34	1324
Kellogg, Joseph A. (See Webb and Kellogg.)						
Kellogg Newspaper Company, A. N. (See Pratt, Edwin E., assignor.)						
Kellogg Newspaper Company, A. N. (See Pratt and Partridge, assignors.)						
Kellogg, Norman S. (See Hooper and Kellogg.)						
Kellogg, Preston S., Battle Creek, Mich. Printer's lead and rule cutter	343,640	June 15	1269	320	35	1251
Kellogg, Spencer, Buffalo, N. Y. Broom-shield	351,777	Nov. 2	66	17	37	471
Kellogg, Timothy N., *et al.* (See Kittell, Ernest A., assignor.)						
Kellogg, William H., Lawton, assignor of one-half to M. O. Sebring and W. A. Forbes, Kalamazoo, Mich. Base for posts	337,163	Mar. 2	374	97	34	995
Kellow, Joseph, Pen Argyl, Pa. Railway-joint	335,458	Feb. 2	514	134	34	533
Kells, Charles E., Jr., New Orleans, La., assignor, by mesne assignments, to National Automatic Fire Alarm Company, of New York. Electric fire-alarm or thermostat. (Reissue)	10,791	Dec. 21	1787	471	37	1348
Kells, Edward, Cleveland, Ohio. Faucet and filler	336,721	Feb. 23	2338	612	34	877
Kells, Herbert, Astoria, N. Y. Car-starter	343,818	June 15	1517	382	35	1296
Kells, Ross, assignor to Paige Car Wheel Company, Cleveland, Ohio. Test-gage for setting car-wheels	340,883	Apr 27	2539	668	35	473
Kelly, Alexander C. (See Freeman, Augustus M., assignor.)						
Kelly, Andrew H. (See Fuller, George P., assignor.)						
Kelly, Edward J. C., Chicago, Ill. Boiler-furnace	343,128	June 1	512	129 / 130	35	1099

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Kelly, Eugene, Jr. (See Mott, Samuel D., assignor.)						
Kelly, Francis W., Minneapolis, Minn. Water-closet flushing-valve	351,835	Nov. 2	143	40	37	485
Kelly, George, Chicago, Ill. Lamp-burner	341,018	May 4	61	17	35	517
Kelly, George, Chicago, Ill. Fire-shield	345,147	July 6	485	123	36	88
Kelly, George A., assignor to Longview Kelly Plow Manufacturing Company, Longview, Tex. Mold-board for plows	346,480	Aug. 3	41	10, 11	36	468
Kelly, George B., Boston, Mass. Perforated music-sheet for mechanical musical instruments	350,747	Oct. 12	910	244	37	173
Kelly, George B., Boston, Mass. Perforated music-sheet	350,748	Oct. 12	911	244, 245	37	173
Kelly, Henry H., Attleborough Falls, Mass., assignor to S. Davidson, New York, N. Y. Ornamental chain-link	341,580	May 11	853	227	35	671
Kelly, James, Chicago, Ill. Water-closet bowl	346,922	Aug. 10	608	163	36	585
Kelly, James M. Kingston, Ind. Fence	344,660	June 29	2672	693	35	1523
Kelly, John, Chicago, Ill. Water-closet	343,586	June 15	1201	302	35	1239
Kelly, John J., assignor of three-fourths to L. D. Latimer, W. W. Morrow, and R. Lambert, San Francisco, Cal. Car-axle	347,353	Aug. 17	1226	327	36	707
Kelly, John P. (See Dion and Kelly.)						
Kelly, John T., Brooklyn, assignor to Kelly & Jones Company, New York, N. Y. Pipe-hanger	344,483	June 29	2434	626	35	1477
Kelly & Jones Company. (See Kelly, John T., assignor.)						
Kelly, Joseph. (See Kelly, Peter and J.)						
Kelly, Joseph A., assignor to Hemmengway & Kelly, Clinton, Iowa. Bed-spring	343,641	June 15	1270	320	35	1251
Kelly, Lawrence A., East Oakland, Cal. Submerged force-pump	350,002	Sept. 28	2013	520	36	1447
Kelly, Oliver S., *et al.* (See Green, George F., assignor.)						
Kelly, Oliver W., and L. F. Dieter, assignors to Springfield Engine and Thresher Company, Springfield, Ohio. Traction-wheel	336,649	Feb. 23	2239	583	34	856
Kelly, Oliver W., and L. F. Dieter, assignors to Springfield Engine and Thresher Company, Springfield, Ohio. Traction-wheel	336,650	Feb. 23	2239	584	34	857
Kelly, Oliver W., and L. F. Dieter, assignors to Springfield Engine and Thresher Company, Springfield, Ohio. Traction-wheel	342,606	May 25	2288	605, 606	35	953
Kelly, Peter and J., Hagersville, Ontario, Canada. Balmoral-shoe upper	351,778	Nov. 2	67	18	37	471
Kelly, Robert A., Xenia, Ohio. Twine-balling machine	347,116	Aug. 10	883	234	36	635
Kelly, Samuel V., Tazewell Court-House, Va. Wagon-box	345,975	July 20	1683	435	36	315
Kelly, Thomas, San Francisco, Cal. Breech-loading fire-arm	342,363	May 25	1943	513	35	891
Kelly, William, Saranac, Mich. Fence	349,940	Sept. 28	1925	498	36	1430
Kelly, William A., and C. H. Hubbell, East Tawas, Mich. Wrench attachment	347,179	Aug. 10	974	260	36	652
Kelly, William B., St. Louis, Mo. Wheeled vehicle	351,929	Nov. 2	281	78	37	509
Kelly, William E., New Brunswick, N. J. Steam-generator	350,201	Oct. 5	145	42, 43	37	31
Kelly, William E., New Brunswick, N. J. Steam-generator	350,205	Oct. 5	147	44	37	31
Kelly, William N., Hoosic Falls, N. Y. Web-perfecting platen printing-machine	353,319	Nov. 30	2214	593	37	905
Kelpien, Theodore, New York, N. Y. Refrigerating attachment for beer-kegs	347,117	Aug. 10	886	235	36	636
Kelsey, D. (See Ritchel, Charles F., assignor.)						
Kelsey, Edward P., Jersey City, N. J. Making and stringing merchandise, &c., tags	344,484	June 29	2435	626	35	1478
Kelsey, Edward P., Jersey City, assignor to W. C. Harlow, Brick Church, N. J. Hardening and toughening glass	342,266	May 18	1761	467	35	852
Kelsey, Edwin, New Haven, Conn. Clamping device for reclining-chairs	342,019	May 18	1438	385	35	791
Kelsey, Frank N., New Haven, Conn. Car-coupling	344,382	June 29	2301	593	35	1454
Kelsey, Frank N., assignor of one-half to J. B. Rathbun, New Haven, Conn. Railway signaling apparatus	337,269	Mar. 2	516	135	34	1022
Kelsey, Henry O., West Salamanca, N. Y. Saw-tooth-dressing device	340,583	Apr. 27	2131	550	35	403
Kelsey, Jarvis E., assignor to West Haven Buckle Company, West Haven, Conn. Machine for making buckles	339,899	Apr. 13	1152	286	35	212
Kelsey, Orlando, Philadelphia, Pa. Steam-generator	335,134	Feb. 2	50	13, 14	34	449
Kelsey, William A., Meriden, Conn. Card-cutting machine	337,270	Mar. 2	519	135	34	1022
Kelsey, William A., Meriden, Conn. Printing-press	348,021	Aug. 24	2194	584	36	894
Kelso, James P., assignor of one-half to J. Hickey, Morgantown, Ind. Churn	339,991	Apr. 13	1285	321	35	235
Kelso, Robert, Beverly, N. J. Bustle	334,707	Jan. 19	1716	457	34	331
Kemp, Charles E. (See Kemp, Clarence M. and C. E.)						
Kemp, Clarence M. and C. E., Baltimore, Md. Gas holder and mixer	339,900	Apr. 13	1153	287	35	213
Kemp, Henry. (See Gray and Kemp.)						
Kemp, J. Ritner, Youngstown, Ohio. Kiln for drying brick, earthenware, &c.	352,193	Nov. 9	698	186	37	594
Kemp, J. Ritner, Youngstown, Ohio. Brick-kiln	352,194	Nov. 9	700	187	37	594
Kemp, James, Kempton, Ill. Hay-press	339,428	Apr. 6	450	110	35	84
Kemp, James, Delhi, N. Y. Animal-trap	351,923	Nov. 2	283	79	37	509
Kemp, Jefferson P. (See Lowman, Leroy B., assignor.)						
Kemp, Robert A., London, England. Combined organ and piano	352,060	Nov. 2	477	129	37	549
Kempe, Julius J., and F. J. Heinold, Rochester, N. Y. Tree-planter	353,070	Nov. 23	1871	505	37	831
Kemper, Arthur, Bath-on-the-Hudson, N. Y. Music-leaf turner	351,604	Oct. 26	2187	565	37	418
Kemper, Robert, Rockland, Ky. Sash-fastener	340,325	Apr. 20	1767	451	35	328
Kempshall, Eleazer, New Britain, Conn. Button-attaching needle	341,148	May 4	243	72	35	549
Kempshall, Eleazer, New Britain, Conn. Heel-protector for boots or shoes	354,064	Dec. 7	599	164	37	1115
Kempshall, Eleazer, assignor to American Button Fastener Company, New Britain, Conn. Button-fastener	344,583	June 29	2568	665	35	1503
Kempshall, Eleazer, assignor, by mesne assignments, to Richard Fastener Company, New Britain, Conn. Paper-fastener	347,718	Aug. 17	1760	469	36	806
Kempshall, Eleazer, assignor, by mesne assignments, to Richard Fastener Company, New Britain, Conn. Paper-fastener	347,719	Aug. 17	1761	469	36	806
Kempster, Daniel E., Boston, Mass. Type-writing machine	342,302	May 18	1834	485, 486	35	863
Kendall, E., *et al.* (See Chadsey, John N., assignor.)						
Kendall, Edward, Cambridgeport, Mass. Apparatus for extinguishing fires	340,127	Apr. 20	1467	371	35	274
Kendall, Edward D., Brooklyn, N. Y. Composition of matter for electrical insulation	339,787	Apr. 13	1007	.....	35	184
Kendall, Edward D., Brooklyn, N. Y. Deoxidizing and reducing iron ores by means of natural gas	342,607	May 25	2290	606	35	954
Kendall, Hugh H., *et al.* (See De Silva, Dwight M., assignor.)						
Kendall, Isaac N., Rockland, Ontario, Canada. Method of and device for turning down the points of saw-teeth	348,220	Aug. 31	2497	672	36	956
Kendall, James A., Middlesbrough, county of York, England. Electric battery	353,141	Nov. 23	1975	528	37	852
Kendall, John L. (See Kendall, William H., assignor.)						
Kendall, Stephen, Angel's Camp, Cal. Ore-crusher	347,809	Aug. 24	1887	503, 504	36	838
Kendall, Walter S., Grand Rapids, Ohio. Bag-holder	334,589	Jan. 19	1550	414	34	301
Kendall, William H., assignor to himself and J. L. Kendall, Brooklyn, N. Y. Drying hats	346,754	Aug. 3	375	101	36	534

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Kenderdine, Theodore, Lisbon, Iowa. Clamp for holding fruit-jars	354,705	Dec. 21	1545	409	37	1302
Kendray, Thomas, assignor of one-half to G. N. Matheson, Sarnia, Ontario, Canada. Sliding tug-strap holder for power-looms	351,779	Nov. 2	68	18	37	471
Kenna, Charles P., Chicago, Ill. Folding cradle	335,203	Feb. 2	163	42	34	470
Kenna, Joseph W., Chicago, Ill., assignor to Thompson, Perley & Waite, Baldwinsville, Mass. Convertible chair	338,231	Mar. 16	1821	476	34	1270
Kenna, Joseph W., Chicago, Ill., assignor to Thompson, Perley & Waite, Baldwinsville, Mass. Convertible chair	338,232	Mar. 16	1822	476	34	1270
Kenna, Thomas M., assignor of one-half to F. B. Farnsworth, New Haven, Conn. Automatic reversing mechanism	333,525	Jan. 5	41	12	34	10
Kennedy, Burr A. (See Kennedy, Herman N. and B. A.)						
Kennedy, Burr A. (See Kennedy and Steward.)						
Kennedy, Burr A., Lake View, Ill. Die for swaging screws	338,276	Mar. 23	1885	495	34	1289
Kennedy, Burr A. and J. F. Steward, Chicago, Ill. Lug for traction-wheels	342,912	June 1	191	49	35	1040
Kennedy, Daniel, New York, N. Y. Stop-valve	338,275	Mar. 23	1884	495	34	1289
Kennedy, David J. (See Gallagher, John T., assignor.)						
Kennedy, Edward S. T. (See Wilkinson, Asa W., assignor.)						
Kennedy, Edward S. T., New York, N. Y. Boiler-deflector	349,720	Sept. 28	1631	420, 421	36	1373
Kennedy, Emett L., *et al.* (See Freeman, Leander W., assignor.)						
Kennedy, Herman N., Chicago, Ill. Grain-harvester	346,552	Aug. 3	129	35	36	485
Kennedy, Herman N. and B. A., Chicago, Ill. Harvesting-machine	351,181	Oct. 19	1547	405	37	297
Kennedy, Herman N. and B. A., and J. F. Steward, Chicago, Ill. Grain-harvester	351,268	Oct. 19	1655	434, 435	37	315
Kennedy, Hosea, Rose Point, Pa. Flexible joint-packing	351,605	Oct. 26	2188	565	37	419
Kennedy, Hugh, Sharpsburg, Pa. Repairing furnace-linings	350,981	Oct. 19	1248	332	37	241
Kennedy, Jackson J., Cleveland, Tenn. Car-coupling	342,608	May 25	2292	606	35	954
Kennedy, James, Kingston, Jamaica, West Indies. Fiber-machine	350,063	Sept. 28	2099	543	36	1463
Kennedy, John, Montreal, Quebec, Canada. Endless-chain dredger	333,637	Jan. 5	184	49	34	36
Kennedy, John T., New Haven, Conn. Machine for making wire nails	339,901	Apr. 13	1155	287	35	213
Kennedy, Julian, Pittsburg, and H. Aiken, Allegheny, Pa. Rolling-mill	344,383	June 29	2302	593, 594	35	1454
Kennedy, Rankin, Paisley, county of Renfrew, assignor to D. Graham, Glasgow, Scotland. Dynamo-electric machine	350,003	Sept. 28	2014	520, 521	36	1447
Kennedy, Robert W., Pittsburg, Pa., assignor to Jones & Laughlins, (limited.) Gas-heating furnace	336,485	Feb. 16	2606	526	34	810
Kennedy, Sylvester, Gap, Pa. Shutter-worker	339,303	Apr. 6	272	68	35	51
Kennedy, Thomas, Philadelphia, Pa. Water-closet	341,247	May 4	386	106, 107	35	576
Kennedy, Warren E., Martin's Station, Ala. Seed-planter	343,819	June 15	1518	382	35	1296
Kennedy, Warren E., Martin's Station, Ala. Combined corn and cotton planter	350,887	Oct. 12	1112	296	37	210
Kennedy, William B., Silver Reef, Utah Ter. Tobacco-pipe stem	335,705	Feb. 9	869	229	34	602
Kenney, Aberham W. and D., Walker, Mo. Corn-planter	341,248	May 4	387	107	35	576
Kenney, Augustus R., San Francisco, Cal. Ice-machine	334,120	Jan. 12	870	238	34	169
Kenney, Daniel. (See Kenney, Aberham W. and D.)						
Kenney, Edward S., Minneapolis, Minn. Drapery-hook	345,904	July 20	1585	409	36	297
Kenney Electrical Cash Carrier Company. (See Kenney, Thomas M., assignor.)						
Kenney, Lester B., Charlotte, Mich. Car-coupling	334,388	Jan. 12	1263	341	34	242
Kenney, Thomas M., Cambridge, assignor to W. S. Hayward, Lynn, and W. C. Dewey, Brookline, Mass. Card or sheet transferring apparatus	335,204	Feb. 2	165	42	34	471
Kenney, Thomas M., Cambridge, Mass., assignor to Kenney Electrical Cash Carrier Company. Cash-carrier	343,539	June 8	1120	283	35	1217
Kennish, William, assignor to J. E. Simpson, Jr., Brooklyn, N. Y. Shell	333,955	Jan. 5	626	171	34	118
Kenny, Michael J., *et al.* (See Bernhardt, Charles, assignor.)						
Kenny, Patrick, New York, N. Y. Stock-quotation telegraph	339,558	Apr. 6	658	159, 160	35	118
Kenoyer, Benjamin, Marquette, Nebr. Corn-planter	340,670	Apr. 27	2250	592	35	421
Kensett, James W., Newport, R. I. Protective holder for pens and pencils	352,827	Nov. 16	1519	409	37	757
Kensett, James W., Newport, R. I., assignor of part to J. H. Storer, Boston, Mass., and J. M. Glover, St. Louis, Mo. Metallic lathing and foundation therefor	352,826	Nov. 16	1518	409	37	757
Kent, Ernest N. (See Besson and Kent.)						
Kent, George E. (See Bachelder, Charles H., assignor.)						
Kent, Huxham P., Providence, R. I. Check-rein holder	346,109	July 27	1861	481	36	357
Kent, Milton A. (See Porter, Stephen, assignor.)						
Kent, William, Jersey City, N. J. Furnace	340,584	Apr. 27	2132	551	35	403
Kent, William, Jersey City, N. J. Manufacture of tubes	341,019	May 4	62	17	35	517
Kent, William, Jersey City, N. J. Device for flanging metal	341,020	May 4	63	17	35	517
Kenton, Levi C., assignor of one-half to J. Clement and T. W. Ball, Baltimore, Md. Boot or shoe	342,752	May 25	2501	666	35	994
Kenway, Percy N., New York, N. Y. Hanger for piping	347,489	Aug. 17	1421	378	36	743
Kenworthy, James T., D. Sexton, and A. Thompson, Colton, Cal. Apparatus for transferring liquids	352,695	Nov. 16	1353	365	37	725
Kenyon, Bloomfield L., Lee Centre, N. Y. Mechanical telephone	348,328	Aug. 31	2635	710	36	984
Kenyon, Jacob C., *et al.* (See Oberlander, Lorenz, assignor.)						
Kenyon, R. S., *et al.* (See Young, Jacob J., assignor.)						
Kenyon, Sophia G., Joliet, Ill. Educational block	341,754	May 11	1085	289	35	718
Kephart, Cyrus J., *et al.* (See Stevens, James S., assignor.)						
Kepler, Isaiah H., New Hampton, Iowa. Gate	337,409	Mar. 9	715	186	34	1064
Kern, Alfred, Basle, Switzerland, assignor to Badische Anilin und Soda Fabrik, Mannheim, Germany. Manufacture of soluble methyl-blue from rosaniline	333,861	Jan. 5	497	.....	34	93
Kern, Carl A. (See Morris and Kern.)						
Kern, Isaac R., Kansas City, Mo. Steam-engine	347,616	Aug. 17	1597	424	36	777
Kern, John A., Quaker Hill, Ind. Harrow	350,683	Oct. 12	832	224	37	158
Kern, John P. (See Cosford and Kern.)						
Kern, Mason H., Bellevue, Ohio. Car-coupling	345,308	July 13	707	178, 179	36	133
Kern, Mason H., Bellevue, Ohio. Car-coupling	349,848	Sept. 28	1813	468, 469	36	1409
Kernaghan, John, San Francisco, Cal. Protective frame-work for levees, dams, &c	352,544	Nov. 16	1137	307	37	686
Kernaghan, John, assignor to T. Morton, San Francisco, Cal. Railway-brake	342,799	June 1	36	9	35	1012
Kerner, Marion H., New York, N. Y. Combined letter-clip and calendar	339,429	Apr. 6	451	110	35	84
Kerner, Marion H., New York, N. Y. Fountain-pen	349,721	Sept. 28	1633	421	36	373
Kernitz, Charles, Long Island City, N. Y. Fancy show-card	354,152	Dec. 14	747	200	37	1149
Kernodle, George M., Cartersville, Ga. Journal-bearing	350,749	Oct. 12	912	245	37	173

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Kernodle, George M., Cartersville, Ga. Nut-lock	352,545	Nov. 16	1138	307	37	686
Kerns, Edward J., Worcester, Mass. Rowlock	352,399	Nov. 9	873	235	37	627
Kerr, David B., Philadelphia, Pa. Woven fabric	353,790	Dec. 7	190	52	37	1042
Kerr, Edward, Pittsburg, Pa. Tool for handling forgings, ingots, &c.	352,696	Nov. 16	1354	366	37	726
Kerr, Isaac A., Muscatine, Iowa. Ventilated barrel	354,706	Dec. 21	1545	409	37	1302
Kerr, Isaac A., Muscatine, Iowa. Slat-weaving machine	354,707	Dec. 21	1547	409 / 410	37	1302
Kerr, James B., Flint, Mich. Window-sign	341,249	May 4	388	107	35	577
Kerr, James H., *et al.* (See Cook and Labelle, assignors.)						
Kerr, James M., New York, assignor to himself and W. H. Hunter, Brooklyn, N. Y. Bottle-stopper	341,660	May 11	963	255	35	692
Kerr, Thomas, New York, N. Y. Cable-grip for cars	353,361	Nov. 30	2282	609	37	917
Kerr, Thomas B. (See Finney, Joseph R., assignor.)						
Kerr, William, Saccarappa, Me. Machine for separating and drying warps after being dyed	348,130	Aug. 24	2344	629	36	922
Kerr, William A., Vienna, N. J. Fire-escape	336,414	Feb. 16	1911	500 / 501	34	794
Kersey, Robert H., Lebanon, Ind. Ditching-machine	340,128	Apr. 20	1469	371	35	274
Kershaw, Charles S., Sherburne, N. Y. Spoke-socket	354,792	Dec. 21	1667	441	37	1325
Kershner, Edward F., *et al.* (See Armitage, Albert, assignor.)						
Kershner, Robert C., *et al.* (See Hand, Ekins, assignor.)						
Kersten, Marzell, Oxford Junction, Iowa, assignor to Loeffelholz & Co., Milwaukee, Wis. Seal-lock	347,180	Aug. 10	975	260	36	652
Kesel, John, Philadelphia, Pa. Self-acting parlor-fountain	340,129	Apr. 20	1472	372	35	275
Kesling, Granville and L., Onward, Ind. Machine for making picket fences	346,923	Aug. 10	609	163 / 164	36	586
Kesling, Luther. (See Kesling, Granville and L.)						
Kessler, David, Willis, Kans. Combined harrow and cultivator	350,684	Oct. 12	834	224	37	158
Kessler, Heinrich P. J., Ober Lahnstein, Prussia, Germany. Electro-magnetic apparatus for separating ores	345,383	July 13	807	20[illegible]	36	151
Kessler, Jacob E., *et al.* (See Reynolds, Perry E., assignor.)						
Kessler, John U., Philadelphia, Pa. Machine for coiling wire	337,588	Mar. 9	967	248	34	1107
Ketcham, David L., New York, N. Y. Tailor's cutting-table	338,601	Mar. 23	2325	609	34	1366
Ketchum, Arthur G., Winchendon, Mass. Dynamo-electric machine	343,129	June 1	513	130	35	1099
Ketchum, Joel T., Rockwall, Tex. Plow	339,788	Apr. 13	1008	249	35	184
Ketchum, Stephen C., Winchendon, Mass. Bobbin-reamer	353,864	Dec. 7	299	78	37	1061
Ketchum, William G., Augusta, Ill. Fire-escape	334,237	Jan. 12	1055	281	34	204
Ketteringham, John P., assignor to himself and L. Botto, Natchez, Miss. Car-coupling	351,516	Oct. 26	2048	531	37	393
Ketteringham, John P., assignor to himself and L. Botto, Natchez, Miss. Combined feeder and hopper for cotton-gins	354,322	Dec. 14	994	264	37	1194
Keuffel, William, Hoboken, N. J. Surveyor's target	337,959	Mar. 16	1454	377	34	1200
Keuffel, William, Hoboken, N. J. Tape-measure case	338,602	Mar. 23	2326	609	34	1366
Keyes, Edward F., Boston, Mass. Skate-roller	349,163	Sept. 14	862	221	36	1209
Keyes, Frank E., Newport, N. H. Machinery or press for molding pail-bodies	354,708	Dec. 21	1549	410	37	1302
Keyes, John W., Chicago, Ill. Fire-back for stoves	341,851	May 11	1211	325	35	742
Keyes, Lyman G., Armstrong, Kans. Valve attachment for hydrants	351,924	Nov. 2	283	79	37	509
Keyes, Martin L., Gorham, assignor to Indurated Fibre Company, Portland, Me. Machine for forming hollow articles from pulp	342,609	May 25	2293	607	35	954
Keyes, William E., Louisville, Ky. Means for cooling mash in distilleries, &c.	354,709	Dec. 21	1551	411	37	1303
Keyhoe, John W. (See Foreman, Ebenezer M., assignor.)						
Keys, Frank W., assignor of one-half to D. Duel, New York, N. Y. Hod-elevator	341,486	May 11	715	192	35	645
Keyser, Andrew, Philadelphia, Pa. Sash-balancing device	346,110	July 27	1862	481	36	357
Keyser, Ephraim C., Abilene, Kans. Roller-mill	334,389	Jan. 12	1264	341	34	242
Keyser, John H. (See Turton, William, assignor.)						
Keystone Watch Case Company. (See Fowler, William, assignor.)						
Keystone Watch Case Company. (See Heffernan, Edward F., assignor.)						
Keyworth, Thomas, Brooklyn, N. Y. Packing-joint	335,592	Feb. 9	712	189	34	575
Khotinsky, Achilles, Rotterdam, Holland. Construction of electrodes for secondary batteries	345,511	July 13	995	252	36	185
Kibler, John B., Minneapolis, Minn. Device for cleaning cisterns	350,536	Oct. 12	609	168	37	118
Kibler, John B., assignor of one-half to L. R. Townsend, Minneapolis, Minn. Pot-lifter	334,666	Jan. 19	1661	444	34	321
Kice, Robert B., Richmond, Mo. Dental plugger	342,107	May 18	1571	419	35	816
Kidd, Alexander, Jersey City, N. J. Feed-nut	347,877	Aug. 24	1992	527	36	856
Kidd, Joshua, Newark, N. J. Carbureting attachment for gas-fixtures	333,862	Jan. 5	498	136	34	93
Kidd, Michael F., Baltimore, Md. Pea-sheller	337,960	Mar. 16	1455	377	34	1200
Kidder, George C., and W. M. Ferry, Park City, Utah Ter. Compound steam-engine	350,537	Oct. 12	610	169	37	118
Kidney, Alfred H., Philadelphia, Pa. Device for disinfecting	337,164	Mar. 2	375	98	34	995
Kiebel, Mathias H., Chicago, Ill. Clasp and file	344,384	June 29	2304	594	35	1454
Kiefer, Julia E., *et al.* (See Armstrong, George S., assignor.)						
Kieley, Timothy J., New York, N. Y. Automatic pressure-regulating valve	338,418	Mar. 23	2086	546	34	1324
Kieley, Timothy J., New York, N. Y. Apparatus for returning and feeding water to steam-boilers. (Reissue)	10,708	Apr. 6	758	187	35	133
Kienardt, John A., assignor of one-half to J. B. Meixell, Dayton, Ohio. Jumping-jack	336,923	Mar. 2	56	15	34	937
Kienardt, John A., assignor of three-fourths to C. L. Hubbard, C. E. Spindler, and G. R. Young, Dayton, Ohio. Jumping-jack	338,979	Mar. 30	2871	759	34	1470
Kienardt, John A., and W. R. Funk, Dayton, Ohio. Horse hay-rake	340,326	Apr. 20	1767	451	35	329
Kierter, Charles H., Mill Brook, Ohio. Mechanism for utilizing wave-power	341,021	May 4	64	18	35	517
Kift, Robert, Philadelphia, Pa. Flower-vase with background	338,845	Mar. 30	2687	708	34	1437
Kilbourn, A. C., *et al.* (See Tourgee, Albion W., assignor.)						
Kilbourn, A. C., *et al.* (See Tourgee and Jennings, assignors.)						
Kilbourn, S. E., *et al.* (See Tourgee, Albion W., assignor.)						
Kilbourn, S. E., *et al.* (See Tourgee and Jennings, assignors.)						
Kilbourne & Jacobs Manufacturing Company. (See Hubbard, Fred W., assignor.)						
Kilburn, Cheney, Philadelphia, Pa. Bed-bottom	339,789	Apr. 13	1008	249	35	184
Kilby, Joseph F. (See Royce, Wesley, assignor.)						
Kile, William B. (See Ingram, John A., assignor.)						
Kiler, Charles M. (See Kiler, George W. and C. M.)						
Kiler, George W. and C. M., Indianapolis, Ind. Fence-post	342,443	May 25	2054	542	35	911
Kiley, Edward J. (See Eskholme, John W., assignor.)						
Killam, Henry, New Haven, Conn. Heat-regulator for incubators	353,865	Dec. 7	300	79	37	1062
Killam, Robert C., assignor to A. L. Wright and A. Cushing, Moncton, New Brunswick, Canada. Presser-roll	335,593	Feb. 9	713	190	34	575
Killinger, John H. (See Gettel, Grittinger, and Killinger.)						
Kilmer, Sylvester A., and E. J. Crandell, Binghamton, N. Y. Car-coupling	348,747	Sept. 7	288	77	36	1101

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Kilpatrick, Alexander, St. Louis, Mo. Apparatus for casting pipe	349,596	Sept. 21	1448	373	36	1332
Kilpatrick, Worth, Connellsville, Pa. Railway sleeper and chair	344,185	June 22	2024	518	35	1396
Kimball, Alonzo. (See St. John, John C., assignor.)						
Kimball, Benjamin M., *et al.* (See Marston, George, assignor.)						
Kimball, Charles E., Anamosa, Iowa. Valve-gear	353,032	Nov. 23	1814	486	37	821
Kimball, Charles P., Chicago, Ill. Sleigh	339,992	Apr. 13	1286	321	35	236
Kimball, Charles M., *et al.* (See Marston, George, assignor.)						
Kimball, Charles M., Toledo, assignor of one-half to P. Dowling, Holland, Ohio. Water-elevator	344,911	July 6	164	41	36	30
Kimball, Clara M., Milwaukee, Wis. Composition for medicating bed-quilts	348,748	Sept. 7	289	.....	36	1101
Kimball, Daniel B., San Francisco, Cal. Fire-escape	342,108	May 18	1572	419	35	816
Kimball, Freddie C., assignor of one-half to A. N. and E. H. Hovey, Jackson, Mich. Harness-saddle	345,237	July 6	604	153	36	109
Kimball, Henry W., Wallsburg, Ohio. Portable tobacco-press	337,410	Mar. 9	716	186	34	1064
Kimball, Israel V., *et al.* (See Wilson, David, assignor.)						
Kimball, John A., *et al.* (See Freese, Francis J., assignor.)						
Kimball, Joseph E., and W. Avery, Milford, Mass. Machine for making wire nails	333,863	Jan. 5	500	136, 137	34	93
Kimball, Orrin A. (See Gramer, Joseph, assignor.)						
Kimball, Perley L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Machine for printing or molding butter	354,985	Dec. 28	1937	512	37	1388
Kimball, William H., Hudson, Mich. Felt boot	343,460	June 8	1027	255	35	1200
Kimber, Arthur C., New York, N. Y. Securing satchels, bags, &c., to car-seats	338,846	Mar. 30	2687	708	34	1437
Kimberley, Frederick. (See Kimberley, George W., assignor.)						
Kimberley, George W., Cleveland, assignor of one-half to F. Kimberley, North Olmsted, Ohio. Whiffletree-hook	350,436	Oct. 5	457	129	37	88
Kimberly, Peter L. (See Jones, John T., assignor.)						
Kimberly, Robert L., Philadelphia, Pa. Justifying-machine	342,364	May 25	1943	513, 514	35	892
Kimble, Fred., Peoria, Ill. Making targets	334,782	Jan. 26	1815	.....	34	359
Kimble, James E., Vicksburg, Mich. Grain-cleaner for thrashing-machines	337,502	Mar. 9	861	218	34	1067
Kimble, Marcus N., Lima, N. Y. Heating-drum	334,075	Jan. 12	805	221	34	157
Kimbler, George H. (See Kimbler, Henry and G. H.)						
Kimbler, Henry and G. H., Creelsborough, Ky. Sheep-shears	347,878	Aug. 24	1992	528	36	856
Kimbler, Henry R., Creelsborough, Ky. Scissors	348,749	Sept. 7	289	77	36	1101
Kimes, Hugh W. (See Sparks, Albert F., assignor.)						
Kimmel, Ernest, and E. E. Claussen, Providence, R. I. Instrument for measuring the mean height of steam-engine indicator-diagrams	336,812	Feb. 23	2455	644	34	899
Kimmel, William, Milton, Ind. Gang-plow	341,250	May 4	389	107	35	577
Kimpton, Charles A. (See Blount and Kimpton.)						
Kimpton, Charles A. (See Blount, Kimpton, and Gilman.)						
Kincaid, William H. (See Young and Kincaid.)						
Kinder, Julius, Brooklyn, assignor to Solid Link Chain Manufacturing Company, New York, N. Y. Machine for making ornamental chains	348,850	Sept. 7	411	112	36	1124
Kindermann, August, Cleveland, Ohio. Wrench	338,078	Mar. 16	1610	420	34	1228
Kinert, William E., Bluffton, Ind. Barrel-swing	350,370	Oct. 5	358	103	37	72
King, Adam, Colborne, Ontario, Canada. Harness	338,980	Mar. 30	2872	760	34	1470
King, Albert B., Norwich, N. Y. Hoof-pad	339,904	Apr. 6	232	68	35	51
King, Charles W., Kalamazoo, Mich. Portable boat	343,244	June 8	685	170	35	1140
King, Charles W., Rutherford, N. J., assignor to E. F. Bradford, trustee, Cincinnati, Ohio. Insole	346,553	Aug. 3	130	35	36	485
King, Charly S. (See Marvin, George A., assignor.)						
King, Cyprian J., *et al.* (See Cole, James W., assignor.)						
King, E. A., *et al.* (See Robinson, William W., assignor.)						
King, Eugene D., Homer, assignor of one-half to A. S. Gay, Summit Station, N. Y. Screw-driver	343,150	June 1	543	138	35	1105
King, Francis. (See Reilly and King.)						
King, George S., Pittsburg, Pa. Reversing-gear	334,238	Jan. 12	1059	281	34	205
King, George W., Marion, Ohio. Supporter for ditching-machines	335,759	Feb. 9	947	249	34	617
King, H. T., *et al.* (See Latchford, William J., assignor.)						
King & Hamilton Company. (See Gilman, John H., assignor.)						
King, Homer A., Springfield, Mass. Velocipede	341,383	May 4	577	159, 160	35	610
King, Homer A., Springfield, Mass. Velocipede	349,800	Sept. 28	1743	449	36	1394
King, Homer A., Springfield, Mass. Velocipede	349,801	Sept. 28	1746	450	36	1394
King, Homer A., Springfield, Mass. Velocipede	349,802	Sept. 28	1748	450	36	1395
King, Homer A., Springfield, Mass. Velocipede	353,071	Nov. 23	1872	505	37	832
King, Hubbard D., Hackensack, N. J. Blacksmith's furnace	353,686	Dec. 7	47	13	37	1015
King, Jay A. (See Hastings, Edwin G., assignor.)						
King, Job, *et al.* (See Magner, Thomas J., assignor.)						
King, John H., *et al.* (See Gates, Waldo L., assignor.)						
King, John H., and J. L. Mills, Liberty Centre, Ind. Churn	350,933	Oct. 19	1171	311	37	227
King, John M., Reading, Pa. Cigar-lighter	342,913	June 1	191	49	35	1040
King, John T., Madison, Wis. Exhaust-steam-heating apparatus	345,850	July 20	1512	392	36	283
King, John W., Hoboken, N. J. Skate-fastening	343,664	June 15	1300	326	35	1276
King, Joseph V., Roberts, Ill. Seal-lock	336,118	Feb. 16	1464	386	34	7[illegible]
King, Leach. (See Gillette and King.)						
King, Mary E. (See Whitcomb and Riddle, assignors.)						
King, Obed H. and W. T., Houghton, Iowa. Horse hay-rake	348,750	Sept. 7	291	78	36	1[illegible]
King, Oren G., Newark, Ohio. Safety-strap for rubber or other shoes	338,981	Mar. 30	2873	760	34	1[illegible]
King, Orson. (See McCandless and King.)						
King, Phineas F., Kansas City, Mo. Nail-extractor	339,993	Apr. 13	1287	321	35	[illegible]
King, Quincy, Colorado Springs, Colo. Window-screen	341,334	May 4	511	141	35	5[illegible]
King, Robert E., Warrenton, N. C. Check-rein holder	345,062	July 6	372	94	36	[illegible]
King, Robert W., Georgetown, Ontario, Canada. Steam-boiler	345,849	July 20	1511	391	36	[illegible]
King, Sidney D., Pittston, Pa. Dumping-car	336,119	Feb. 16	1466	386	34	7[illegible]
King, Sidney D., Pittston, Pa. Car-truck	348,281	Aug. 31	2497	672	36	1[illegible]
King, Sidney D., Pittston, Pa. Car-coupling	351,381	Oct. 26	1816	477	37	315
King, T. E., *et al.* (See Chapman, Samuel A., assignor.)						
King, T. E., *et al.* (See Pullman, Herbert S., assignor.)						
King, Theodore E. (See Hammond and King.)						
King, Theodore E., Westport, assignor of one-half to J. C. Hammond, Jr., Rockville, Conn. Shoe-clasp	341,421	May 4	625	171	35	618
King, Theodore E., Westport, assignor of one-half to J. C. Hammond, Jr., Rockville, Conn. Shoe-clasp	341,422	May 4	626	171	35	618

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
King, Theodore E., Westport, and J. C. Hammond, Jr., Rockville, Conn. Shoe-clasp	351,035	Oct. 19	1347	354	37	259
King, Theophilus. (See Farr, Hiram G., assignor.)						
King, Thomas S., Atlanta, Ga. Vehicle-spring	342,109	May 18	1573	420	35	816
King, Walter G. (See Clark and King.)						
King, Watson E., *et al.* (See Zanger, Theodor, assignor.)						
King, William H. K., Mount Sterling, Ill. Tablet	337,503	Mar. 9	862	218	34	1087
King, William P. (See Marks, Solomon, assignor.)						
King, William R., and J. W. Highfield, Bridgeport, Ill. Fence	353,950	Dec. 7	435	119	37	1086
King, William T. (See King, Obed H. and W. T.)						
King, William T., Houghton, Iowa. Hay-stacker	339,430	Apr. 6	452	110	35	84
Kingsbury, Addison, South Coventry, Conn. Machine for cutting paper-box blanks	346,165	July 27	1945	501	36	373
Kingsbury, Addison, South Coventry, Conn. Pasting-machine	347,246	Aug. 10	1059	283	36	668
Kingsland, Abraham W. (See Hutchinson, John A., assignor.)						
Kingsland & Ferguson Manufacturing Company. (See Reeder, William S., assignor.)						
Kingsley, Albert E., Saccarappa, Me. Warping-machine	342,210	May 18	1688	450	35	838
Kingsley, Herbert B., Cleveland, Ohio. Oil-cup	336,325	Feb. 16	1788	467	34	771
Kingston, Edward S., Little Falls, N. Y. Coasting-skate	334,954	Jan. 26	2028	541	34	397
Kingwill, John F., Chicago, Ill. Double-pointed tack-sorting machine	354,909	Dec. 28	1833	484	37	1368
Kinkade, James E. (See Mathewson, Sobra R., assignor.)						
Kinley, Joseph R., Chicago, Ill. Grinding-mill	352,135	Nov. 9	607	161	37	579
Kinnard, William M., Dayton, Ohio. Combined tally-sheet and pole-book	340,218	Apr. 20	1610	407	35	300
Kinnear, Peter. (See Loftus, John, assignor.)						
Kinnear, W. R. (See McDougal, James D., assignor.)						
Kinnear, William R., Columbus, Ohio. Gas-stove	346,554	Aug. 3	131	35, 36	36	485
Kinner, Gustave, Paterson, N. J. Pantaloons-protector	334,783	Jan. 26	1815	484	34	359
Kinney, Alpheus A., Paris, Nebr. Windmill	352,875	Nov. 16	1586	428	37	771
Kinney, Charles A., assignor to E. Miller & Co., Meriden, Conn. Lamp-hanger	336,326	Feb. 16	1789	468	34	771
Kinney, Charles A., assignor to E. Miller & Co., Meriden, Conn. Shade-ring for hanging lamps	341,661	May 11	964	255	35	693
Kinney, Francis S., New York, and W. H. Butler, Brooklyn, N. Y., assignors to Kinney Tobacco Company, of New York. Cigarette-bundling machine	353,866	Dec. 7	303	79, 80	37	1062
Kinney, Israel, Windsor, Ontario, Canada. Metal fabric	343,958	June 15	1697	435	35	1331
Kinney, Simon, assignor of one-half to S. H. Pratt, Brownsville, Cal. Saw-tooth	343,713	June 15	1393	347	35	1232
Kinney Tobacco Company. (See Kinney and Butler, assignors.)						
Kinports, Martin, Ephrata, Pa. Cigar-bundling machine	341,487	May 11	717	193	35	645
Kinsfather, Carle L. (See Davis and Kinsfather.)						
Kinsley, John R., Cincinnati, Ohio. Hame-fastener	341,755	May 11	1086	289	35	718
Kinsman, Frank E., New York, N. Y. Safety automatic brake	345,700	July 20	1294	335	36	246
Kinsman, Frank L. (See Sampson, Wright, and Kinsman.)						
Kinsman, John H., Salem, Mass. Individual telephone-call	334,390	Jan. 12	1365	342	34	242
Kinsworthy, Paschal S., Brownstown, Ark. Cultivator	352,413	Nov. 9	977	263	37	648
Kintner, Simon A., Ney, Ohio. Door-bolt	338,640	Mar. 23	2381	627	34	1376
Kinzer, Jacob, Pittsburg, Pa. Apparatus for forming molds	347,940	Aug. 24	2085	553, 554	36	874
Kip, Frederick E., Belleville, N. J. Packing-case	353,226	Nov. 23	2092	560	37	876
Kip, Walter N., Passaic, and A. H. Van Riper, Orange, N. J. Hand-grenade fire-extinguisher	344,319	June 22	2205	567	35	1428
Kipp, Charles, Lehighton, Pa. Delivery-cart	355,177	Dec. 28	2213	584	37	1441
Kipp, Charles M. (See Ferris and Kipp.)						
Kipper, Emil, Adams, Mass. Device for inserting bristles in brush-backs	334,121	Jan. 12	871	239	34	109
Kipper, Emil, Adams, Mass. Collar or cuff	334,590	Jan. 19	1552	415	34	361
Kipper, Emil, Adams, Mass. Pressing and molding articles of plastic material	335,526	Feb. 2	607	158	34	548
Kipper, Emil, Adams, Mass. Manufacture of solid rings from pyroxyline compounds and other plastic materials	335,935	Feb. 9	1201	320	34	663
Kipper, Emil, Adams, Mass. Collar or cuff	344,281	June 22	2159	552, 553	35	1420
Kipper, Emil, Adams, Mass. Manufacture of collars and cuffs	344,282	June 22	2159	553	35	1420
Kipper, Emil, and J. G. Jarvis, Adams, Mass. Collar or cuff	336,521	Feb. 16	2050	538	34	818
Kirby, Dick M., Auburn, N. Y. Steam-boiler	340,327	Apr. 20	1769	452	35	329
Kirby, James A., assignor to L. Mason and W. H. Kirby, Chicago, Ill. Seal-lock	344,049	June 22	1830	470	35	1366
Kirby, James H., Coal Valley, W. Va. Miner's combination-box	342,365	May 25	1946	514	35	892
Kirby, James H., Coal Valley, W. Va. Tether	353,750	Dec. 7	135	37	37	1032
Kirby, John, Jr., Dayton, Ohio, assignor to Dayton Manufacturing Company. Lamp	354,910	Dec. 28	1834	484	37	1368
Kirby, Joe H., Lawler, Iowa. Milking-machine	335,287	Feb. 2	284	75	34	491
Kirby, Josiah, Cincinnati, Ohio. Bung	337,961	Mar. 16	1456	377	34	1201
Kirby, Richard C., Santa Cruz, Cal. Bark-cutter	355,179	Dec. 28	2215	585	37	1441
Kirby, William A. (See Kellogg and Kirby.)						
Kirby, William A., Auburn, N. Y. Mowing-machine	339,192	Apr. 6	105	29	35	22
Kirby, William A., Auburn, N. Y. Steam-boiler	355,178	Dec. 28	2214	584	37	1441
Kirby, William H., *et al.* (See Kirby, James A., assignor.)						
Kirby, William H., Warsaw, Ky. Fence-clamp	353,072	Nov. 23	1873	506	37	832
Kircher, William F., Covington, Ky. Grapple	334,667	Jan. 19	1662	444	34	321
Kirchner, Adolph, Chicago, Ill. Barrel-trimming machine	341,581	May 11	854	237	35	672
Kirchner, Frederick C., and W. H. Washburn, New York, N. Y. Door-securer	350,437	Oct. 5	458	129	37	88
Kirk, Alva H. (See Willis, Charles F., assignor.)						
Kirk, Ferrender, Indianapolis, Ind. Corset	344,969	July 6	236	60	36	43
Kirk, Henry F. (See Cochrane and Kirk.)						
Kirk, Hyland C., Phelps, N. Y. Cards for playing games	354,424	Dec. 14	1119	301	37	1218
Kirk, Joseph A., Pittsburg, Pa. Vegetable-cutter	340,884	Apr. 27	2540	668	35	473
Kirk, Peter, Workington, county of Cumberland, England. Oven or furnace for heating ingots and blooms	343,820	June 15	1519	383	35	1296
Kirk, Peter, Workington, county of Cumberland, England. Rolls for making tram-rails	345,512	July 13	995	252	36	185
Kirkaldy, John, 40 West India Dock Road Poplar, county of Middlesex, England. Donkey-engine pump and condenser	336,522	Feb. 16	2051	538, 539	34	819
Kirkaldy, John, 40 West India Dock Road, county of Middlesex, England. Feed-water heater	351,182	Oct. 19	1549	405, 406	37	297
Kirkbride, Frederick L., Wyandotte, Kans., assignor of one-half to W. C. Duvall, Kansas City, Mo. Vehicle-wheel	333,759	Jan. 5	363	99	34	68
Kirker, Jabez G., Louisville, Ky. Crushing and grinding mill	350,064	Sept. 28	2100	543	36	1463
Kirker, Milton, assignor of one-half to J. D. Long, Pittsburg, Pa. Manufacture of draw-bars	351,382	Oct. 26	1818	478	37	351
Kirkland, James F., Guelph, Ontario, Canada. Carriage-top former	341,662	May 11	965	255, 256	35	693
Kirkpatrick, David M., Kansas City, Mo. Ticket-punch	341,756	May 11	1087	289	35	719

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Kirkpatrick, George W., Macedon, N. Y. Grain and grass seeder	342,209	May 18	1685	449	35	838
Kirkpatrick, Helen M., *et al.* (See Armitage, Albert, assignor.)						
Kirkpatrick, Helen M., *et al.* (See Gallup, Silas N., assignor.)						
Kirkpatrick, Robert W., Glenville, Minn. Air-blast regulator for fanning-mills, &c	344,912	July 6	164	42	36	30
Kirn, U. Grant, *et al.* (See Snowberger, Jacob, assignor.)						
Kirschbaum, John. (See Putnam and Kirschbaum.)						
Kirstein, Edward. (See Frawley, John J., assignor.)						
Kirstein, Henry E., Rochester, N. Y. Eyeglass-frame	336,722	Feb. 23	2339	613	34	877
Kirtley, William F., and C. R. Spurgeon, Laclede, Mo. Copying and printing instrument	342,610	May 25	2296	607	35	955
Kirwan, Thomas, Boston, Mass. Combined lock and latch	353,492	Nov. 30	2475	661	37	954
Kisinger, Frank P. (See Dunham and Kisinger.)						
Kisinger, George W. (See Dunham and Kisinger.)						
Kissel, Albert, Frankfort-on-the-Main, Germany, assignor to Adamanta Manufacturing Company, Boston, Mass. Substitute for india-rubber, caoutchouc, &c	350,459	Oct. 5	493	.....	37	95
Kissel, Albert, assignor to C. Zimmer, Frankfort-on-the-Main, Germany. Hardening resins. (Reissue)	10,714	Apr. 20	2061	.....	35	383
Kissell, Abraham S., Chicago, Ill. Electro-automatic valve	343,642	June 15	1271	329	35	1251
Kissner, Leonard, and J. J. Gromme, assignors to Hocking Valley Manufacturing Company, Lancaster, Ohio. Grain-drill	343,907	June 15	1628	415	35	1318
Kistler, Casper, Sterling, Ill. Watch-case pendant	338,753	Mar. 30	2561	677	34	1413
Kistler, Casper, Sterling, Ill. Stem winding and setting watch	344,838	July 6	58	14	36	11
Kistler, Hiram W. (See Gordon, Davis D., assignor.)						
Kistler, John H., and J. E. Buck, North Lansing, Mich. Warehouse-truck	344,661	June 29	2672	693, 694	35	1524
Kitchel, Lyman B., Rushville, assignor of one-half to Maxwell & Mowry, Rome, N. Y. Halter attachment	348,166	Aug. 24	2400	644	36	933
Kitchen, George H., New York, N. Y. Sign	353,867	Dec. 7	308	80	37	1063
Kitchen, Joseph M. W., New York, N. Y. Exercising-chair	342,020	May 18	1438	385, 386	35	791
Kitson Machine Company. (See Kitson, Richard, assignor.)						
Kitson, Richard, assignor to Kitson Machine Company, Lowell, Mass. Cotton-opener	351,868	Nov. 2	201	56, 57	37	496
Kittell, Ernest A., assignor of five-eighths to B. G. Button, T. N. Kellogg, and W. H. Hartman, Waterloo, Iowa. File	342,831	June 1	81	20	35	1021
Kittell, Ernest A., assignor of five-eighths to B. G. Button, T. N. Kellogg, and W. H. Hartman, Waterloo, Iowa. Powder-case	348,525	Aug. 31	2919	785	36	1037
Kittell, George W., and W. Jackson, Springfield, assignors to Star Automatic Fire Extinguisher Company, Boston, Mass. Automatic sprinkler	337,836	Mar. 16	1283	332	34	1169
Kittinger, Levi, Akron, Ohio. Match-making machine	341,809	May 11	1150	305, 306, 307	35	730
Kittinger, Levi, Akron, Ohio. Making matches	341,810	May 11	1157	308, 309	35	732
Kittle, Stephen Y., Wilkes-Barré, Pa. Saw-holding vise	342,698	May 25	2419	640	35	978
Kittleson, Ole O., Rock Falls, assignor to C. H. Salisbury, De Kalb, Ill. Wire-barbing machine	350,982	Oct. 19	1249	332, 333	37	242
Kitto, John, Llanidloes, county of Montgomery, A. Paul, Devil's Bridge, county of Cardigan, and R. R. Nancarrow, Llanidloes, county of Montgomery, England. Discharging and righting skips or wagons	334,076	Jan. 12	805	221	34	158
Kittredge, Anson O. (See Leavitt and Kittredge.)						
Kittredge, Anson O., Slate Hill, N. Y., and G. A. Ohl; said Kittredge assignor to G. A. Ohl, Jr., Newark, N. J. Cornice-bending machine	338,079	Mar. 16	1612	420	34	1229
Kittredge, Anson O., Slate Hill, and F. M. Leavitt, Brooklyn, N. Y., assignors to Vulcan Company, of Pennsylvania. Squaring-shears	345,639	July 13	1201	311, 312	36	222
Kittredge, Anson O., Slate Hill, and F. M. Leavitt, Brooklyn, N. Y., assignors to Vulcan Company, of Pennsylvania. Sheet-metal-scroll cutter	349,722	Sept. 28	1635	422, 423	36	1374
Kitts, Charles W., Grass Valley, Cal. Fruit-drier	345,701	July 20	1296	336	36	246
Kitts, Willard A., Oswego, N. Y. High and low water alarm for steam-boilers	341,852	May 11	1212	325	35	742
Kizer, Isaac H., Riverside, Cal. Fruit-bag holder	335,076	Jan. 26	2203	585, 586	34	427
Kizziar, James W., Lipan, Tex. Smoke-generator	341,335	May 4	512	141	35	598
Kjellstrom, Nils J., East Cambridge, Mass. Buckle	342,110	May 18	1574	420	35	816
Klaber, Augustus D., New York, N. Y. Stencil-holder	333,864	Jan. 5	502	137	34	93
Klán, Václav, and R. Seitz, Prague, Bohemia, Austria-Hungary. Construction of sash-windows	355,091	Dec. 28	2089	548, 549, 550	37	1415
Klar, Joseph, Shelbyville, Ill. Check-row corn-planter	351,985	Nov. 2	372	101, 102	37	527
Klassert, Henry. (See Weitz and Klassert.)						
Klaucke, Julius, Solingen, Prussia, Germany. Fountain-pen	337,838	Mar. 16	1286	333	34	1170
Kleckner, Charles C., and J. R. T. Coates, Chester, Pa. Railway-crossing gate	350,750	Oct. 12	913	245	37	173
Kleese, Wilson, assignor of one-half to M. B. Mitchell, G. Beatty, and S. R. Blanchard, Ottawa, Ill. Machine for forming wire coils	347,720	Aug. 17	1761	470	36	806
Klein, Adolph A., Philadelphia, Pa. Elevator-hatchway	333,526	Jan. 5	42	12	34	10
Klein, Adolph A., Philadelphia, Pa. Hoisting-machine	345,309	July 13	709	179	36	133
Klein, George N. (See Meurer and Klein.)						
Klein, John S., Oil City, Pa. Steam-valve gear for duplex steam-pumps	336,924	Mar. 2	57	15	34	937
Klein, Philip H., Jr., assignor to Bergmann & Company, New York, N. Y. Shade for electric lamps	337,336	Mar. 2	611	160	34	1039
Klein, William. (See Schoendelen, Klein, and Schoendelen.)						
Kleinert, Isaac B. (See Janowitz, Julius, assignor.)						
Kleinert, Isaac B., New York, N. Y. Armpit dress-shield	345,595	July 13	1137	290	36	210
Kleinert, Isaac B., New York, N. Y. Armpit-shield	351,269	Oct. 19	1659	435	37	316
Kleinert, Isaac B., New York, and A. C. Squires, Brooklyn, N. Y.; said Squires assignor to said Kleinert. Method of and apparatus for forming articles of flexible material	352,330	Nov. 9	874	235	37	627
Klemann, Peter, New York, N. Y. Picture-exhibitor	343,130	June 1	515	130, 131	35	1099
Klenze, Charles F. (See Roehl, Carl, assignor.)						
Klett, John W., Canton, Ohio. Food-holder for bird-cages	350,310	Oct. 5	280	79	37	57
Klindt, Oswald. (See Dahl, Carl A., assignor.)						
Kline, George H., Pamrapo, N. J., assignor of one-half to A. C. Henderson, Brooklyn, N. Y. Distilling petroleum	353,362	Nov. 30	2284	610	37	917
Kline, James N. (See Hinckley, Hermon, assignor.)						
Kline, Henry, assignor of one-half to J. H. Snyder, Canton, Ohio. Swinging and reclining chair	347,428	Aug. 17	1323	332, 333	36	724

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Kline, O. S., administrator. (See Morgan, Robert.)						
Kline, William, Piqua, Ohio. Table-leaf support	334,239	Jan. 12	1061	282	34	205
Kline, William D. (See Solt and Kline.)						
Kline, William O. (See Donohue, James S., assignor.)						
Klinefelter Brothers. (See Williams and Klinefelter, assignors.)						
Klinefelter, Victor H. (See Williams and Klinefelter.)						
Kling, Isaac, Louisville, Ky. Car-coupling	349,655	Sept. 21	1517	392	36	1347
Kling, Peter M., St. Louis, Mo. Street and station indicator	351,270	Oct. 19	1660	436	37	316
Kling, William L., St. Cloud, Minn. Device for converting motion	337,962	Mar. 16	1458	378	34	1201
Klinkermann, Friedcrich, Dillsborough, Ind. Striking mechanism for clocks	348,915	Sept. 7	510	135 / 136	36	1141
Klinkner, John H., Cascade, assignor to T. Crowley, Bernard, Iowa. Neck-yoke retainer	343,037	June 1	366	94	35	1073
Klippert, Charles, assignor of one-half to J. F. Farber, Rochester, N. Y. Microscopist's turn-table	334,530	Jan. 19	1469	394	34	285
Klopp, Hans F., Chicago, Ill. Operating gates	333,865	Jan. 5	503	137	34	93
Klose, Karl A., Des Plaines, Ill. Upright double water-gage boiler	354,710	Dec. 21	1553	411	37	1303
Klostermann, Friedrich, Vienna, Austria Hungary. Electric-arc lamp	335,459	Feb. 2	515	135	34	534
Klotts, Samuel R. (See Qurin, Georges, assignor.)						
Klotz, Joseph, Pittston, Pa. Wheel	344,118	June 22	1933	494	35	1380
Klueber, John, Sandusky, Ohio. Guitar	337,337	Mar. 2	611	160	34	1039
Kluge, Oskar, Berlin, Germany. Rolling-curtain	346,999	Aug. 10	705	187	36	603
Knapp, Charles E., Homesdale, Pa. Device for supporting pipes	351,640	Oct. 26	2238	579	37	428
Knapp, Charles H., Paterson, N. J., assignor of one-half to G. Draper & Sons, Hopedale, Mass. Shuttle-binder for looms	344,450	June 29	2387	615	35	1469
Knapp, Edward Y., assignor of one-half to G. W. B. Yocum, Arcata, Cal. Automatic railway switch and signal	339,305	Apr. 6	273	68	35	51
Knapp, George W., Baltimore, Md. Metal package or can	339,063	Mar. 30	3005	794	34	1491
Knapp, John H., New York, N. Y. Fishing-rod ferrule	337,589	Mar. 9	968	248	34	1107
Knapp, John I., J. C. McKenzie, and W. Humphrey, Adrian, Mich. Brick and tile kiln	348,916	Sept. 7	515	136	36	1141
Knapp, Joseph, Coloma, Mich. Water-wheel	347,810	Aug. 24	1888	504	36	838
Knapp, Riley I., Platteville, Wis. Pump	345,384	July 13	808	204	36	151
Knapp, Samuel S., and E. Browne, Abington, Mass. Shoe-fastener	355,092	Dec. 28	2095	550	37	1417
Knebel, Herman, Birmingham, Ala. Steam-engine	349,888	Sept. 28	1861	480	36	1419
Kneedler, John A., Grant, Pa. Thill-coupling	345,148	July 6	485	124	36	88
Kneedler, Lewes, Caledonia, assignor to C. B. Morris, G. S. Allyn, J. C. Askren, and J. T. Merrill, Mount Ayr, Iowa. Balanced valve	342,444	May 25	2055	542	35	911
Kneedler, Lewis, Caledonia, Iowa, assignor to F. F. Leathers, F. Offenhauser, Sr., and J. N. Limeburg, trustees. Balanced slide-valve	349,048	Sept. 14	705	180	36	1180
Kneeland, Sylvanus R., Boston, Mass. Air-brake	351,383	Oct. 26	1819	478	37	351
Kneen, William, Barrow-in-Furnace, county of Lancaster, England. Consuming smoke	340,918	Apr. 27	2583	681	35	482
Knell, James W., Boston, Mass. Advertising device	346,924	Aug. 10	611	164	36	586
Knetzger, Leonard, Duquoin, Ill. Machine for stretching and finishing crimped uppers	340,445	Apr. 20	1922	494	35	358
Knetzger, Leonard, Duquoin, Ill. Crimping-machine for boots or shoes	350,065	Sept. 28	2101	544	36	1463
Knickerbocker Company. (See Morse, Orville M., assignor.)						
Kniese, Frederick C., Baltimore, Md. Carburetor to be used in the manufacture of water-gas	348,917	Sept. 7	517	137	36	1142
Kniese, Frederick C., assignor of two-thirds to A. Ross, Baltimore, Md, and H. F. Attrill, Goderich, Canada. Manufacture of gas from crude petroleum	352,620	Nov. 16	1246	337	37	706
Kniffler, Bruno, Cleveland, Ohio. Bolting-reel	340,446	Apr. 20	1923	494	35	358
Knight, Charles A., Glasgow, county of Lanark, Scotland. Steam-boiler	333,956	Jan. 5	628	171 / 172	34	118
Knight, Edgar, New York, N. Y., assignor of one-half to W. Reynolds and A. W. Butler, Brookville, Ind. Knob-latch	340,048	Apr 13	1361	341	35	249
Knight, George H., Providence, R. I. Jeweler's stock	346,661	Aug. 3	268	73	36	513
Knight, George W., assignor of one-half to J. R. Addison, Butler, Ala. Indicator for post-office boxes	342,021	May 18	1441	386	35	791
Knight, Harry E., *et al.* (See Johnston, George W., assignor.)						
Knight, John A., assignor to W. N. Abbott, New York, N. Y. Pillow-sham holder	336,053	Feb. 9	1363	360	34	691
Knight, John L., assignor to A. Nicholson, New York, N. Y. Pneumatic tube	339,105	Mar. 30	3068	812	34	1502
Knight, Lenis D. (See Bailey and Knight.)						
Knight, Leonard T. (See Bailey and Knight.)						
Knight, Lewis, Lancaster, Pa. Reamer	346,111	July 27	1863	481	36	357
Knight, Octavius. (See Mason, George W., assignor.)						
Knight, Octavius, *et al.* (See Johnston, George W., assignor.)						
Knight, Samuel I. (See Hood, Gustave, assignor.)						
Knight, Samuel I. (See Meeker, Edwin C., assignor.)						
Knight, Walter H., New York, N. Y. Electric railway	338,080	Mar. 16	1616	421	34	1229
Knight, Walter H., New York, N. Y. Electric railway	338,081	Mar. 16	1617	421	34	1230
Knight, Walter H., New York, N. Y. Electric railway	338,082	Mar. 16	1618	421	34	1230
Knight, Walter H., New York, N. Y. Electric railway	338,083	Mar. 16	1619	421	34	1230
Knight, Walter H., New York, N. Y. Safety-catch for electrical translating devices	338,084	Mar. 16	1620	422	34	1230
Knight, Walter H., New York, N. Y. Electric motor	338,085	Mar. 16	1622	422	34	1231
Knight, Walter H., New York, N. Y. Electric railway	338,175	Mar. 16	1748	457	34	1256
Knight, Walter H., Cleveland, Ohio. Electric railway	338,174	Mar. 16	1746	457	34	1255
Knight, Walter H., Cleveland, Ohio. Electric motor for railways	354,793	Dec. 21	1668	441	37	1325
Knight, William W., Jersey City, N. J. Clamp for stopping leaks and bursts in pipes	334,873	Jan. 26	1928	513	34	379
Knighton, Charles J., Birmingham, Ala. Elevator and carrier	348,329	Aug. 31	2636	711	36	984
Knipe, William A., Haverhill, Mass. Heel-burnishing tool	345,063	July 6	373	94	36	68
Knipe, William A., and L. Day, Haverhill, Mass. Boot or shoe sole	354,668	Jan. 19	1662	444	34	321
Knipe, William A., and G. C. Wadleigh, Haverhill, Mass. Boot or shoe and making the same	341,920	May 18	1308	350	35	768
Knodell, George A., *et al.* (See Save, James R., assignor.)						
Knollin, Thomas H., Syracuse, N. Y. Gate for railway-crossings	351,325	Oct. 19	1733	456	37	329
Knoop, Josiah, Casstown, Ohio. Grain harvesting and binding machine	347,617	Aug. 17	1599	424	36	777
Knopp, George L., *et al.* (See Hill, Charles S., assignor.)						
Knorn, Gustave A. (See Johnson, James G., assignor.)						
Knorr, Jacob F., Orange, N. J. Hame	337,338	Mar. 2	612	160	34	1039
Knous, John, assignor to Pope Manufacturing Company, Hartford, Conn. Bearing for velocipedes	354,511	Dec. 14	1251	334	37	1241
Knowles, Edward R., Brooklyn, N. Y. Application of secondary batteries to electric lighting	353,142	Nov. 23	1977	528	37	853
Knowles, Eli W., Francisco, assignor of one-half to F. M. Knowles, Owensville, Ind. Land-roller	335,077	Jan. 26	2204	586	34	427

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Knowles, Franklin M. (See Knowles, Eli W.; assignor.)						
Knowles, J. Henry. (See Proctor and Knowles.)						
Knowles, John A., Jr., deceased; S. M. Knowles, executrix, and assignor to W. H. Thompson, Lowell, Mass. Weighing-scale	337,772	Mar. 9	1189	309	34	1146
Knowles, Lawrence D. (See Barrows and Knowles.)						
Knowles, Lewis G., deceased, New York, N. Y., C. T. Gifford, Aberdeen, Miss., administrator. Permutation-lock	347,618	Aug. 17	1602	425	36	778
Knowles' Loom Works. (See Fifield, Levi W., assignor.)						
Knowles' Loom Works. (See Hutchins, George F., assignor.)						
Knowles, Mortimer L., assignor of two-thirds to J. J. Banford and C. A. Zimmerman, Union City, Mich. Two-wheeled vehicle	347,490	Aug. 17	1422	378	36	743
Knowles, Susan M., executrix. (See Knowles, John A., Jr.)						
Knowlton, Agustus, *et al.* (See Knowlton, Henry C., assignor.)						
Knowlton, Alec E., *et al.* (See Knowlton, Henry C., assignor.)						
Knowlton, Charles D. (See Devore, Levi M., assignor.)						
Knowlton, Daniel C., and J. E. Harris, Boston, Mass. Car-brake	336,120	Feb. 16	1467	387	34	716
Knowlton, Henry C., assignor to A., H. C., and A. E. Knowlton, West Gardner, Mass. Cutter-head	341,149	May 4	244	73	35	550
Knowlton, Mark D., *et al.* (See Howe, Warren B., assignor.)						
Knowlton, Mark D. (See Howe and Knowlton.)						
Knowlton, Mark D., Chicago, Ill. Machine for making paper tubes	337,165	Mar. 2	376	98	34	995
Knowlton, Mark D., Chicago, Ill. Machine for making paper tubes	350,830	Oct. 12	1036	276	37	196
Knowlton, Mark D., Chicago, Ill. Box-making machine	354,866	Dec. 21	1763	466	37	1344
Knowlton, William H. H., Chicago, Ill. Feed-water heater	344,913	July 6	166	42	36	31
Knox, David, Lynn, Mass. Sole-molding machine for boots and shoes	347,429	Aug. 17	1324	353	36	725
Knox, George A., Lynn, Mass. Molding machine for boots or shoes	352,760	Nov. 16	1431	386	37	741
Knox, John L. L., Allegheny, Pa., assignor to Knox Rock Blasting Company. Blasting rock	342,366	May 25	1947	515	35	892
Knox, John R., *et al.* (See Black, Henry, assignor.)						
Knox, John R., *et al.* (See Black and Miller, assignors.)						
Knox, Julia A., Burr Oak, Kans. Remedy for hog and chicken cholera	345,788	July 20	1426	.....	36	269
Knox, Oscar F., Watertown, Mass. Machine for shaping shoe-soles	347,050	Aug. 10	786	209	36	618
Knox Rock Blasting Company. (See Knox, John L. L., assignor.)						
Knudson, Adolphus A., Brooklyn, N. Y. Conductor for telephones	351,704	Oct. 26	2318	602	37	444
Kobelke, Charles F. A., Chicago, Ill. Rat trap	334,443	Jan. 19	1345	364	34	264
Koch, August W., Peoria, Ill. Bracket	350,934	Oct. 19	1172	312	37	227
Koch, Charles, assignor to Le Société Anonyme des Usines Franco-Russes, Paris, France. Compound motive-power engine	347,619	Aug. 17	1604	425	36	778
Koch, Edouard A. (See Patin, Justin, assignor.)						
Koch, Edouard A., assignor of one-half to G. Stambaugh, Waterloo, La. Cutting-share for plows	335,936	Feb. 9	1203	320	34	663
Koch, Frederic. (See Crebb, Koch, and Miller.)						
Koch, Frederick W., and S. Garrett, Steelton, Pa. Slicing-machine	343,587	June 15	1201	302	35	1239
Koch, George, Burlington, Iowa. Seal-lock	336,925	Mar. 2	59	16	34	937
Koch, John C., Berlin, Germany. Binder for music, periodicals, &c	338,350	Mar. 23	1986	523	34	1307
Koch, Julius J., assignor to F. Wichard, St. Louis, Mo. Pressure-regulator for brick-machines	340,049	Apr. 13	1362	341	35	249
Koch, Julius J., and V. Theu, St. Louis, Mo. Brick-machine	351,780	Nov. 2	69	19, 20	37	472
Koch, Morris F., New York, N. Y. Automatic weighing-scale	346,852	Aug. 3	497	137, 138	36	557
Koch, William, New York, N. Y. Quilting-machine	334,955	Jan. 26	2029	541, 542	34	397
Koch, William, New York, N. Y. Shuttle carrier and race mechanism	346,853	Aug. 3	500	138	36	558
Koch, William, New York, N. Y. Cash-register	354,867	Dec. 21	1767	466, 467	37	1344
Koch, William, assignor to Kruse Check and Adding Machine Company, New York, N. Y. Adding-machine	346,925	Aug. 10	612	164	36	587
Koch, William, and C. Kruse, assignors to Kruse Check and Adding Machine Company, New York, N. Y. Check printing and adding machine	348,496	Aug. 31	2873	773	36	1029
Kochendorfer, George, assignor of one-half to J. Roth, Marysville, Ohio. Cuspidor	347,354	Aug. 17	1227	327	36	707
Kochs, Theodore A., Chicago, Ill. Foot-rest	335,594	Feb. 9	714	190	34	575
Kochsmeier, Henry P., and G. M. Waldorf, Freeport, Ill. Spring-hinge	340,790	Apr. 27	2413	636	35	451
Kochsmeier, Henry P., and G. M. Waldorf, Freeport, Ill. Spring-hinge	345,905	July 20	1586	409	36	298
Koeber, Charles, Chicago, Ill. Corned-beef press	354,512	Dec. 14	1251	334	37	1241
Koeberle, John, assignor to T. Devlin & Co., Philadelphia, Pa. Meat-hook	340,050	Apr. 13	1364	342	35	249
Koehlinger, Gustav. (See Gabet and Koehlinger.)						
Koelkebeck, Carl W. A., Camden, N. J., assignor to J. Evans, Philadelphia, Pa., and D. H. Burrell, Little Falls, N. Y. Centrifugal liquid-separator	349,106	Sept. 14	789	200	36	1195
Koelkebeck, Charles W. A., Camden, N. J. Automatic speed-regulator	335,460	Feb. 2	518	135	34	534
Koeller, Hermann H., St. Louis, Mo. Hitching-post	341,488	May 11	718	193	35	645
Koeller, Hermann H., Quincy, Ill. Combined foot rest and scraper attachment for hitching-posts	345,149	July 6	486	124	36	88
Koerber, Rudolph C., Austin, Tex. Nut-cracking machine	353,143	Nov. 23	1979	528	37	853
Koerner, Alfred C., assignor to Hotchkiss & Co., Paris, France. Apparatus for protecting vessels against torpedo attacks	338,241	Mar. 16	1833	478, 479, 480, 481, 482	34	1273
Koerner, Christian, Rochester, N. Y. Combination-ladder	353,868	Dec. 7	309	81	37	1063
Kohl, Lea J. (See Cooper and Kohl.)						
Kohl, W. C. (See Clark, William R., assignor.)						
Kohler, Albert, Waconia, Minn. Case for lead pipe	341,663	May 11	966	256	35	693
Köhler, Arthur, Chemnitz, Saxony, Germany. Button or glove fastener	334,669	Jan. 19	1663	444	34	322
Kohler, Frederick E., Canton, Ohio. Cuff-holder	334,391	Jan. 12	1271	343	34	243
Kohler, Frederick E., Canton, Ohio. Hay-tedder	336,723	Feb. 23	2339	613	34	877
Kohler, Frederick E., Canton, Ohio. Tree-protector	338,158	Mar. 16	1725	450	34	1251
Kohler, Magnus. (See Meyer and Kohler.)						
Kohlsaat, James. (See Seiler, Philipp, assignor.)						
Kohn, Alois, and F. Watzlawik, Vienna, Austria-Hungary. Manufacturing imitation Turkey carpets and chenille weft therefor	353,869	Dec. 7	310	81	37	1063
Kohn, Ignaz, assignor of one-fourth to J. Zuber, New York, N. Y. Clothes-line fastener	338,159	Mar. 16	1726	450	34	1252
Kohn, Jacob W., Newark, N. J. Shutter-fastener	336,054	Feb. 9	1364	360	34	691
Kohn, Samuel, *et al.* (See Jacobs, Charles A., assignor.)						
Kohn, William. (See Christy and Kohn.)						
Kokernot, Alexander B., New Orleans, La. Rocking-seat mechanism for operating churn-dashers, &c	346,926	Aug. 10	615	165	36	587

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drs.	Official Gazette. Vol.	Official Gazette. Page.
Kolbe, Carl. (See Schmitt and Kolbe.)						
Koll, Benjamin S., Salem, Ohio. Safety-tank and automatic filler	339,106	Mar. 30	3068	812	34	1502
Kölzer, Joseph, Duisburg-on-the-Rhine, Prussia, Germany. Telegraphic repeater	337,590	Mar. 9	969	248 / 249	34	1107
Komp, John F., assignor to D. J. Davis and T. Rankin, Chicago, Ill. Cream-testing churn	346,051	July 20	1787	460 / 461	36	333
Komp, John F., assignor to Davis & Rankin, Chicago, Ill. Test-churn	354,065	Dec. 7	600	165	37	1116
Konold, Christian, Ross, Pa. Die for making vise-jaws	337,339	Mar. 2	613	161	34	1039
Konold, Christian, Ross, Pa. Machine for making vise-jaws, &c.	337,340	Mar. 2	614	161	34	1039
Konold, Christian, and W. H. Hays, Pittsburg, Pa. Gas-combustion apparatus	344,385	June 29	2305	594	35	1454
Kookogey, William P., Brooklyn, N. Y. Incandescent lamp	351,869	Nov. 2	203	57	37	496
Koons, Charles W., and W. H. Metzger, Canton, Ohio. Saw-setting device	340,585	Apr. 27	2133	551	35	403
Koontz, John E., *et al.* (See Savre, Reuben H., assignor.)						
Kopecky, Joseph L., Summitville, Iowa. Gate	347,620	Aug. 17	1605	426	36	778
Kopp, George F., South Egremont, Mass. Pole or shaft supporter	346,290	July 27	2119	545	36	406
Korfhage, Charles, Brooklyn, N. Y. Electric alarm-clock	337,067	Mar. 2	243	65	34	971
Kornacher, William, Scranton, Pa. Composition to attract dissolved crystals	351,870	Nov. 2	203	57	37	496
Korsmeyer, Ernest H., Evansville, Ind. Corn-planter	351,925	Nov. 2	285	79	37	510
Korsmeyer, Ernest H., Evansville, Ind. Seed-planter	351,926	Nov. 2	286	79, 80	37	510
Korte, Frank J., Zanesville, Ohio. Boiler	348,918	Sept. 7	518	137	36	1142
Korthaus, Charles, Cologne, Prussia, Germany. Bottle-stopper	342,519	May 25	2171	575	35	930
Körting, Ernst, Hanover, Prussia, Germany. Apparatus for elevating liquids	339,663	Apr. 13	833	205	35	153
Körting, Ernst, Hanover, Prussia, Germany. Regulator for gas-engines	346,374	July 27	2235	573	36	428
Körting, Ernst, Hanover, Prussia, Germany. Apparatus for mixing gases	351,835	Dec. 21	1724	456	37	1336
Kosinski, Wladyslaw T., Brooklyn, N. Y. Device for converting reciprocating into rotary grip and slip motion	334,392	Jan. 12	1271	343	34	243
Kosiol, Edward. (See Byrne and Kosiol.)						
Koskul, Frederick, New York, N. Y. Trimming for windows and doors	344,742	June 29	2779	720	35	1542
Kosminski, Martin, London, England. Muff	347,879	Aug. 24	1994	528	36	856
Koss, Ludwig, New York, N. Y. Plate-holder for cameras	342,014	June 1	192	49	35	1040
Koster, John L., San Francisco, Cal. Heater for barrels	336,239	Feb. 16	1674	435	34	749
Kouns, Wesley, Solomon City, Kans. Water-tube	351,781	Nov. 2	75	21	37	472
Kourian, Michael, Chicago, Ill. Bridge-gate	345,150	July 6	487	124	36	89
Kraemer, David. (See Baer and Kraemer.)						
Kraft, Augustus C. H. (See Kraft, Charles J. F. and A. C. H.)						
Kraft, Charles J. F. and A. C. H., Joliet, Ill. Barbed wire	341,921	May 18	1310	350	35	763
Kraft, Louis. (See Lovejoy and Kraft.)						
Krag, William A., Indianapolis, Ind. Coffee or tea can	352,195	Nov. 9	701	187	37	595
Krajewski, Thomas F., New York, assignor, by mesne assignments, of one-half to J. L. Cochrane, Brooklyn, N. Y. Machine for breaking and cutting cane	349,503	Sept. 21	1327	345	36	1308
Kramer, Henry, Grant Park, Ill. Washing-machine	350,685	Oct. 12	835	225	37	158
Kramer, John M., Maria Stein, Ohio. Leveling apparatus for steam-boilers	339,790	Apr. 13	1011	249 / 250	35	185
Kramer, William R., Fairmount, Ind. Gate-hinge	341,423	May 4	628	171	35	619
Kramme, C. (See Krantz, Paul, assignor.)						
Kranich, Hellmuth, and J. Bach, New York, N. Y. Piano music-rack	344,485	June 29	2437	636	35	1478
Krantz, Fredrich W., assignor to Michigan Lubricator Company, Detroit, Mich. Lubricator	342,753	May 25	2503	666	35	994
Kranz, Howard L., Providence, R. I. Flower-pin	341,105	May 4	179	56	35	537
Kranz, John A., assignor of one-half to E. McArthur, Waukegan, Ill. Thill-coupling	352,469	Nov. 9	1047	282	37	662
Krater, Fredrick, assignor of one-half to J. W. Leslie, Altoona, Pa. Coffee-mill	350,139	Oct. 5	55	15	37	13
Kratzer, Wayne, Allentown, Pa. Anti-friction journal-bearing	334,670	Jan. 19	1664	445	34	322
Kratzer, Wayne, Allentown, Pa. Anti-friction bearing	335,527	Feb. 2	499	159	34	549
Kratzer, Wayne, assignor of one-half to T. Schadt, Allentown, Pa. Band-saw guide	334,175	Jan. 12	954	259	34	184
Kraus, Anthony. (See De Lano, Frank S., assignor.)						
Kraus, Leopold. (See Welton, Frank T., assignor.)						
Kraus, Samuel, assignor to Eagle Pencil Company, New York, N. Y. Lead-pencil	333,638	Jan. 5	186	50	34	37
Kraus, Samuel, assignor to Eagle Pencil Company, New York, N. Y. Pen-holder	333,639	Jan. 5	186	50	34	37
Krause, Ernest E., Rio Vista, Cal. Gang-plow	347,721	Aug. 17	1762	470	36	806
Krause, Ernest E., Rio Vista, Cal. Cultivator	347,722	Aug. 17	1763	470	36	806
Krause, Henry C., Lake Linden, Mich. Ore-separator	349,504	Sept. 21	1329	345	36	1309
Krauser, August, *et al.* (See John, August, assignor.)						
Krautz, Paul, assignor to C. Kramme, Berlin, Germany. Suspending device for electric lamps	340,512	Apr. 20	2026	519	35	377
Kranz, Hugo, *et al.* (See Young, William A., assignor.)						
Kraver, J. Frederick, Philadelphia, Pa. Hand-tool	341,664	May 11	967	256	35	693
Krebs, George L. (See Solter, John, assignor.)						
Kregel, Louis G., St. Louis, Mo. Fastener for lids, covers, &c.	343,245	June 8	687	170	35	1140
Krehbiel, John, assignor to Globe Drug and Capsule Company, Detroit, Mich. Capsule-machine	334,240	Jan. 12	1063	282	34	205
Krebbiel, John, assignor to Globe Drug and Capsule Company, Detroit, Mich. Capsule-filling machine	336,010	Feb. 9	1300	346	34	680
Krehbiel, John, assignor to Globe Drug and Capsule Company, Detroit, Mich. Making gelatine capsules	338,754	Mar. 30	2563	677	34	1414
Krehbiel, John, assignor to Globe Drug and Capsule Company, Detroit, Mich. Capsule-machine	347,941	Aug. 24	2087	554	36	871
Krehbiel, John, assignor to G. W. Bullis, Detroit, Mich. Capsule-machine	344,783	June 29	2837	734	35	1553
Krehbiel, John, Detroit, assignor to G. W. Bullis, Ann Arbor, Mich. Capsule-stripping machine	347,274	Aug. 10	1101	294	36	675
Kreicker, William. (See Kade, Charles, assignor.)						
Krein, Frank, Jr. (See Herman, John C., assignor.)						
Kremer, Franklin W., Wadsworth, Ohio. Injector	335,227	Feb. 2	204	53	34	476
Kremer, Fredrick P., Marietta, Ohio. Motor	340,586	Apr. 27	2134	551	35	403
Krengel, Ernest E., Buena Vista, Oreg. Car-axle	352,761	Nov. 16	1434	386	37	742
Krepp, John. (See Lennox and Krepp.)						
Krick, Irwin S., Conneautville, Pa. Animal-trap	334,784	Jan. 26	1816	484	34	359
Kriebel, Hosea K., assignor of one-half to F. Light, Jr., West Point, Pa. Hot-water heater	337,068	Mar. 2	245	65	34	971
Krieg, John K., New York, N. Y. Needle	354,018	Dec. 7	536	146	37	1104
Krieger, Andrew, assignor to J. Ohlen, Columbus, Ohio. Insertible saw-tooth	334,241	Jan. 12	1064	282	34	206
Krieger, Andrew, assignor to J. Ohlen, Columbus, Ohio. Saw-tooth	340,051	Apr. 13	1364	342	35	250
Kriete, Henry C., Chicago, and W. Gillies, South Chicago, Ill. Machine for stamping rails	337,837	Mar. 16	1285	333	34	1170
Krispin, Edward, Chicago, Ill. Manufacture of bas-reliefs for ceilings, walls, &c.	336,055	Feb. 9	1365	361	34	[illegible]
Kritch, Jacob, Cleveland, Ohio. Die for forging axles	337,504	Mar. 9	863	218	34	1087
Kritch, Jacob, Cleveland, Ohio. Railway-axle journal-bearing	352,876	Nov. 16	1588	428	37	[illegible]

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Kriz, William J., St. Louis, Mo. Breech-loading fire-arm	345,789	July 20	1426	369	36	269
Kroeber, Frederick W., St. Helena, Cal. Safety-rail and rein-grip for vehicles	335,288	Feb. 2	286	75	34	491
Kroeger, Henry, New York, N. Y. Capodastro-bar for piano-frames	351,326	Oct. 19	1734	456	37	329
Kroeninger, Charles. (See Husemann, Gottlieb D., assignor.)						
Kroenke, E. August, New York, N. Y. Refrigerator	349,396	Sept. 21	1181	306	36	1280
Krob, Victor, Kruman, Bohemia, Austria-Hungary. Traction-engine	351,112	Oct. 19	1451	880	37	275
Krom, Stephen R., Plainfield, N. J. Screen for ores and mineral substances	338,847	Mar. 30	2688	709	34	1437
Krom, Stephen R., Plainfield, N. J. Roller ore-crusher	339,664	Apr. 13	835	205, 206	35	154
Krom, Stephen R. Plainfield, N. J. Ore-crusher	340,720	Apr. 27	2333	611, 612	35	434
Kromer, Otto, Sandusky, Ohio. Lathe for turning irregular forms	336,813	Feb. 23	2457	644, 645	34	899
Kromer, Otto, Sandusky, Ohio. Friction-coupling	344,320	June 22	2206	567	35	1429
Krones, Ernest A., assignor to himself and J. D. Eisenstein, New York, N. Y. Shirt	337,341	Mar. 2	616	162	34	1040
Kronsberg, August. (See Nahrung, William, assignor.)						
Kroupa, Joseph, St. Louis, Mo. Brake-lever	349,941	Sept. 28	1926	498	36	1431
Krucker, Jacob E. (See Gulath, Charles, assignor.)						
Krucker, Jacob E., assignor of one half to C Gulath, St. Louis, Mo. Safety-envelope, &c	354,066	Dec. 7	602	165	37	1116
Krueger, August C., assignor to Chicago Raw Hide Manufacturing Company, Chicago, Ill. Leather-stretching machine	335,595	Feb. 9	715	190	34	576
Kruegermann, Friedrich, Scranton, Pa. Wrench	338,419	Mar. 23	2087	547	34	1325
Kruesi, John, Brooklyn, and J. Langton, Jr., New York, N. Y. Underground electrical cable	334,708	Jan. 19	1716	457	34	331
Kruesi, John, Brooklyn, and J. Langton, Jr., New York, N. Y. Machine for making electrical cables	334,709	Jan. 19	1717	458	34	332
Kruger, Fritz, Fürstenberg, assignor to Leipziger Anilin Fabrik, Beyer & Kegel, Lindenau, Germany. Production of betanaphthol-disulpho acids	351,056	Oct. 19	1377	.....	37	264
Krull, William F., Springfield, Ohio. Clothes-support	341,022	May 4	65	18	35	518
Krum, David C., Grand Rapids, Mich. Presser-bar for planing-machines	336,860	Feb. 23	2514	663	34	910
Krum, Edward M., Old Chatham, N. Y. Seat for harvesters and other machines	341,922	May 18	1311	350	35	768
Krure, William M., Hartford, Dak. Ter. Bag-holder	339,665	Apr. 13	837	206	35	154
Kruse, Charles. (See Koch and Kruse.)						
Kruse, Charles. (See Weiss, Charles W., assignor.)						
Kruse Check and Adding Machine Company. (See Koch, William, assignor.)						
Kruse Check and Adding Machine Company. (See Koch and Kruse, assignors.)						
Kruse Check and Adding Machine Company. (See Weiss, Charles W., assignor.)						
Kruse Check and Adding Machine Company (See Weiss, Louis T., assignor.)						
Krusi Hermann, San Francisco, Cal. Bridge	338,755	Mar. 30	2564	677	34	1414
Krüsi, John, St. Gall, Switzerland. Making embroidery-laces	337,687	Mar. 9	1082	.....	34	1127
Krutsch, Willis W. (See Gilfillan and Krutsch.)						
Krutzsch, Herman, assignor of one-half to St. Louis Iron and Machine Works, St. Louis, Mo. Brick-machine	345,513	July 13	996	252, 253	36	185
Krutzsch, William, assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Oil-cup	334,710	Jan. 19	1719	458	34	332
Kuehn, August P. (See Henderson, Thomas A., assignor.)						
Kuehn, Herman. (See Tull, Kuehn, and Beers.)						
Kuehnle, John, Cincinnati, Ohio. Frizzing-machine	345,514	July 13	998	253	36	185
Kuehnle, Matthew, St. Louis, Mo. Automatic sliding shelf for cook-stoves	355,180	Dec. 28	2216	585	37	1442
Kuestner, Ferdinand, Brooklyn, N. Y. Smoking-pipe	341,150	May 4	246	73	35	550
Kugler, George, Cleveland, Ohio. Remedial appliance	349,649	Sept. 28	1815	469	36	1409
Kugler, Henry, assignor of two-thirds to J. Ebben and H. Kaack, Chicago, Ill. Thill-coupling	344,050	June 22	1832	470	35	1361
Kuhlman, David D., assignor to J. Seaton, Atchison, Kans. Automatic grain-weighing machine	354,911	Dec. 28	1837	485	37	1369
Kuhn, David B., Norwalk, Ohio. Belt-reel	337,002	Mar. 2	163	41	34	954
Kuhn, Henry, St. Louis, Mo. Drying-frame for sensitized paper	339,666	Apr. 13	838	206	35	154
Kuhn, Jean G., Degersheim, Switzerland. Woven embroidery fabric	336,861	Feb. 23	2515	663	34	910
Kuhn, Michael G., New York, N. Y. Lock-hinge	349,850	Sept. 28	1816	469	36	1409
Kuhn, William F. (See Johnson, William H. and O. B., assignors.)						
Kuhne, Edward, *et al.* (See Douglas, Edward J., assignor.)						
Kühne, Felix, assignor to Rudolph & Kühne, Berlin, Germany. Cloth-pressing machine	349,436	Sept. 21	1232	319, 320	36	1289
Kühne, Paul, Stapleton, N. Y. Stall-floor	343,821	June 15	1520	383	35	1296
Kuhns, Benjamin. (See Kuhns and Bollinger, assignors.)						
Kuhns, Edgar A., assignor of one-half to A. C. East, Dayton, Ohio. Oiler for loose pulleys	348,919	Sept. 7	519	137	36	1142
Kuhns, George F. and W. N., and P. S. Bollinger, assignors to B. Kuhns, Dayton, Ohio. Corn-planting machine	345,640	July 13	1204	312, 313	36	222
Kuhns, William N. (See Kuhns and Bollinger.)						
Kulage, Joseph J., St. Louis, Mo. Brick-machine	347,355	Aug. 17	1229	327	36	707
Kulich, Anton, Brooklyn, N. Y. Bureau-bed	349,723	Sept. 28	1641	423	36	1375
Kulich, Anton, assignor to C. Kulich, Brooklyn, N. Y. Bureau-bed	351,450	Oct. 26	1947	507	37	373
Kulich, Charles. (See Kulich, Anton, assignor.)						
Kullig, Rudolf, Elberfeld, Prussia, Germany. Steam-trap	350,253	Oct. 5	211	61	37	44
Kunkle, Erastus B., assignor to himself and W. D. Bostwick, Fort Wayne, Ind. Pressure-gage	339,559	Apr. 6	660	160	35	119
Kunstädter, Jacob J., New York, N. Y. Propelling and steering vessels	345,702	July 20	1299	336	36	217
Kuntz, Emanuel, *et al.* (See Boyer, Thomas J., assignor.)						
Kuntz, Franz, New York, N. Y. Lantern	343,461	June 8	1027	256	35	1200
Kuntzsch, George N., *et al.* (See Ellis, Richard E., assignor.)						
Kunze, Charles, Newark, N. J. Clasp for cigar-boxes	333,640	Jan. 5	187	50	34	37
Kupferle, John C., St. Louis, Mo. Hydrant	338,756	Mar. 30	2565	677	34	1414
Kupferle, John C., St. Louis, Mo. Door-hanger	344,914	July 6	167	42, 43	36	31
Kupferle, John C., St. Louis, Mo. Fire-hydrant	345,790	July 20	1428	370	36	269
Kupferle, John C., St. Louis, Mo. Air-vent for water-pipes	352,093	Nov. 2	529	141	37	558
Kürten, Hubert C., Aix-la-Chapelle, Prussia, Germany. Water-closet	334,176	Jan. 12	956	259	34	184
Kurtz, Friedrich, Nieder-Marsberg, Westphalia, Prussia, Germany. Machine for grinding paper-stock	343,714	June 15	1394	348	35	1272
Kurtz, William B., assignor to Crowell Manufacturing Company, Greencastle, Pa. Traction-engine boiler	349,889	Sept. 28	1862	480	36	1419
Kurtz, William E., *et al.* (See Thompson, William H., assignor.)						
Kutzner, John D., Wilkes-Barré, Pa. Pill-roller	337,342	Mar. 2	617	162	34	1040
Kuykendall, John H., and J. K. Elkins, Sedalia, Mo. Weather-board gage	338,233	Mar. 16	1824	477	34	1251
Kuyl, John L., and E. D. Cundell, Paterson, N. J. Gas-regulator	353,227	Nov. 23	2092	560	37	876

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Kyle, Edward E., Newville, assignor of three-fourths to M. H. Wagoner, G. W. North, and T. Cornman, Cumberland County, Pa. Nut-lock	349,724	Sept. 28	1642	424	36	1375
Kyle, Oscar N. (See Goodell and Kyle.)						
Kyle, Robert J., New York, N. Y. Button	346,112	July 27	1864	481	36	357
Kynoch, Charles, and E. Courtright, St. Ignace, Mich. Apparatus for cleaning steam-pipes	345,434	July 13	890	221	36	165
Kyte, Thomas J., Deckertown, N. J. Sled-brake	333,957	Jan. 5	629	173	34	118
L'Africain, Joseph R., Lowell, Mass. Dress-maker's table	346,481	Aug. 3	42	11	36	468
La Banister, William, assignor of one-half to J. A. Wieck, Boston, Mass. Boot or shoe	354,555	Dec. 21	1317	350	37	1260
La Bar, David, and H. W. Patton, Waterville, Ohio. Bag-holder	343,276	June 8	733	182	35	1148
La Bau, John H., assignor to New Haven Clock Company, New York, N. Y. Telegraph call-box	334,785	Jan. 26	1817	484	34	359
La Bau, John H., assignor to New Haven Clock Company, New York, N. Y. Attaching composition letters to composition surfaces	334,786	Jan. 26	1818	484	34	359
La Bauve, Odelon J., Edna, Tex. Wire-stretcher	341,251	May 4	390	108	35	577
La Baw, George W., Railway, N. J. Thill-coupling	335,289	Feb. 2	287	76	34	491
La Boiteaux, Frank M., assignor to H. Varwig, Cincinnati, Ohio. Vent-bung	347,723	Aug. 17	1765	471	36	806
La Dow, Charles, Albany, N. Y. Eraser	337,505	Mar. 9	864	218	34	1088
La Dow, Charles, Albany, N. Y. Wheel-harrow	337,773	Mar. 9	1190	309, 310	34	1146
La Dow, Charles, Albany, N. Y. Spring-tooth harrow	338,176	Mar. 16	1752	458	34	1257
La Dow, Charles, Albany, N. Y. Disk-harrow	338,982	Mar. 30	2874	760, 761, 762	34	1470
La Dow, Charles, Albany, N. Y. Harness	339,902	Apr. 13	1156	287, 288	35	213
La Dow, Charles, Albany, N. Y. Horse hay-rake	343,131	June 1	516	131	35	1100
La Dow, Charles, Albany, N. Y. Disk-harrow	343,132	June 1	519	132	35	1100
La Dow, Charles, Albany, N. Y. Horse-rake	349,942	Sept. 28	1927	499	36	1431
La Dow, Charles, Albany, N. Y. Cultivator and seeder	354,556	Dec. 21	1318	350	37	1260
La Dow, Charles, Albany, N. Y. Spring-tooth harrow	354,557	Dec. 21	1322	351	37	1260
La Dow, Charles, Albany, N. Y., J. J. Budlong and L. P. Hoyt, Aurora, Ill. Wheel-harrow	338,086	Mar. 16	1623	422	34	1231
La Dow, John, assignor to Gregg & Co., Trumansburg, N. Y. Baling-press	335,290	Feb. 2	287	76, 77	34	492
La Dow, John, assignor to Gregg & Co., Trumansburg, N. Y. Hay-press	352,546	Nov. 16	1139	307, 308	37	686
La Fave, Joseph H., assignor to A. V. Bowker, Miller's Falls, Mass. Handle for cutlery and other articles	348,330	Aug. 31	2637	711	36	984
La Grassa, Salvadore, New York, N. Y. Key-bottom for pianos	340,219	Apr. 20	1612	408	35	300
La Grassa, Salvadore, New York, N. Y. Key-bottom for pianos	347,356	Aug. 17	1230	327	36	707
La Grassa, Salvadore, assignor to Hardman, Peck & Co., New York, N. Y. Upright-piano case	354,323	Dec. 14	905	264	37	1194
La River, Joseph, assignor of one-fourth to B. Haas, Haywards, Cal. Washing-machine	353,073	Nov. 23	1874	506	37	832
La Roche, Alfred, *et al.* (See Amouroux, Elie, assignor.)						
La Rose, Anthine F. (See Dubé, Louis, assignor.)						
La Rue, Abrom, Danville, Pa. Car-coupling	345,977	July 20	1685	435	36	316
Laass, Emil. (See Hey and Laass.)						
Laass, Emil. (See Peckham and Laass.)						
Labelle, Felix. (See Cook and Labelle.)						
Lacaillade, Charles, *et al.* (See Bonneau, Nelson, assignor.)						
Lacey, Albert R. (See Ludlow, Charles A., assignor.)						
Lacey, Asa P., Minneapolis, Minn. Ironing-table	339,193	Apr. 6	106	30	35	22
Lachner, Conrad, New York, N. Y. Machine for cutting the down from feathers	345,515	July 13	1000	254	36	126
Lackersteen, Mark H., Chicago, Ill. Manufacturing soap and glycerine	353,566	Nov. 30	2500	.....	37	976
Lacourse, Octave, Putnam, Conn. Sash-cord-pulley frame	348,979	Sept. 14	605	159	36	1164
Ladd, Edward O., Everett, Mass. Door-bolt	341,489	May 11	719	193	35	646
Ladd, Levi. (See Stinson, Charles K., assignor.)						
Ladd, William J., New York, N. Y. Apparatus for electrotyping	339,431	Apr. 6	453	110	35	84
Ladrière, Louis. (See Brochu and Ladrière.)						
Lafever, Minard, Battle Creek, Mich. Traction engine	339,194	Apr. 6	107	30	35	22
Lafferty, Hugh W., Gloucester, N. J. Utilizing refuse of breweries	345,703	July 20	1299	337	36	247
Lafferty, Hugh W., Gloucester, N. J. Apparatus for utilizing refuse of breweries	345,704	July 20	1301	337	36	247
Lafit, Carlos M. P., Brighton, county of Sussex, England. Cock and tap	334,787	Jan. 26	1819	485	34	359
Lafrenz, John C., assignor of one-half to C. Einfeldt, Rock Island, Ill. Harrow	339,432	Apr. 6	455	111	35	85
Lagel, Benjamin F. (See Applegate and Lagel.)						
Lagerquist, Gust, Minneapolis, Minn. Hatchway	353,951	Dec. 7	436	119	37	1086
Lagerquist, Oscar F., Macon, Ga. Attachment for measures	343,908	June 15	1630	415	35	1318
Lagosse, Etienne, and J. Bouché, Paris, France. Multitubular steam-boiler	337,506	Mar. 9	865	219, 220	34	1088
Lagowitz, Jacob. (See Frankel, Alexander C., assignor.)						
Lagowitz, Jacob. (See Heilman, Frederick W., assignor.)						
Lahey, Thomas. (See Lahey, William, assignor.)						
Lahey, William, Stoneham, assignor of one-half to T. Lahey, Haverhill, Mass. Journal-bearing	351,606	Oct. 26	2188	565	37	419
Lahue, Moses M. (See Sawyer, Orren A., assignor.)						
Laidlau, John, Glasgow, county of Lanark, Scotland. Centrifugal machine	337,166	Mar. 2	380	99	34	996
Laidlaw, William A., Cherokee, Kans. Device for pressing hay	347,811	Aug. 24	1890	504	36	839
Laidlaw, William A., Cherokee, Kans. Machine for making wire bale-ties	351,517	Oct. 26	2050	532	37	394
Laing, Andrew, Glasgow, county of Lanark, Scotland. Apparatus for ventilating stoke-holes, &c	346,755	Aug. 3	376	102, 103, 104	36	534
Laing, James M., Bay City, Mich. Pump	337,167	Mar. 2	382	99	34	996
Laing, Walter W., and S. S. Hutchins, Paola, Kans. Pump	341,923	May 18	1312	351	35	768
Lake, Abraham E., Wooster, and J. C. Lake, Big Prairie, assignors to Square Hole Auger Company, Wooster, Ohio. Square-hole-boring machine	339,195	Apr. 6	108	30	35	22
Lake, Alfred, Leavenworth, Kans. File for bills, music-sheets, &c	341,252	May 4	392	108	35	577
Lake, George N., North Lawrence, Kans. Combined clod-crusher and land-roller	353,952	Dec. 7	437	119	37	1086
Lake, Jesse S., Pleasantville, N. J. Broom-corn-sizing machine	348,677	Sept. 7	201	53	36	1063
Lake, Jesse S., Pleasantville, N. J. Grip for traction-cars	354,479	Dec. 14	1198	320	37	1232
Lake, John C. (See Lake, Abraham and J. C.)						
Lake, Stephen D. (See Frost and Lake.)						
Lake, Stephen D., Rochester, and J. D. Haines, Sandy Hill, N. Y. Register for fares	345,151	July 6	488	125	36	89
Lake, Vincent F., Pleasantville, N. J., assignor, by mesne assignments, to American Writing Machine Company, of New York. Type-writing machine	344,839	July 6	59	14, 15	36	12
Lakin, James A., and C. J. Emerson, Jr., Westfield, Mass.; said Emerson assignor to said Lakin. Cyclometer	348,851	Sept. 7	414	112	36	1124

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Lakin, Rinaldo S., Boston, assignor to S. S. Higgins, Somerville, Mass. Tooth-brush	334,729	Jan. 19	1743	465	34	337
Lakin, Rinaldo S., Boston, assignor to S. S. Higgins, Somerville, Mass. Folding tooth-brush	345,517	July 13	1003	254	36	186
Lakin, Wilber F. (See Badger and Lakin.)						
Lalance, Auguste. (See Farmer and Lalance.)						
Lalance & Grosjean Manufacturing Company. (See Le Page, Matthew, assignor.)						
Lalley, Michael and T. J., W. A. Lang, West Covington, and A. J. Stephens, Covington, assignors to M. Lalley, West Covington, Ky. Peanut-roaster	339,433	Apr. 6	456	111	35	85
Lalley, Thomas J. (See Lalley, Lang, and Stephens.)						
Lalonde, Maurice, Oscoda, Mich. Combined saw-set, gage, and raker-guide	345,791	July 20	1430	370	36	270
Lamal, Edmond, and S. Duprat, Paris, France. Stamped roofing-tile	349,227	Sept. 14	950	242, 243	36	1226
Lamb, A. B. Lewis, assignor of two-thirds to G. H. and J. M. Shoudy, Kalamazoo, Mich. Compensating-gear for traction-engines	340,220	Apr. 20	1613	408	35	301
Lamb, Charles A., Deer Creek, Mich. Railway-signal	335,821	Feb. 9	1037	274	34	633
Lamb, George B., assignor to Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Hydraulic valve	336,724	Feb. 23	2311	613	34	877
Lamb, Jesse M., Nettle Creek, assignor of one-half to N. F. Canaday, Hagerstown, Ind. School desk and seat	352,762	Nov. 16	1434	387	37	742
Lamb, John. (See Sintzenich, Horace H. C., assignor.)						
Lamb, John W. (See Lowe and Lamb.)						
Lamb, Richard, assignor to Thompson Gas Kiln and Oven Company, New York, N. Y. Baker's oven	345,906	July 20	1598	410	36	298
Lamb, Salem T., New Albany, Ind. Caster	355,020	Dec. 28	1984	522	37	1396
Lamb, Thomas, Philadelphia, Pa. Sewing-machine	335,365	Feb. 2	392	101	34	512
Lamb, Thomas, Philadelphia, Pa. Feeding device for sewing-machines	338,420	Mar. 23	2088	547	34	1325
Lambert, Catholina. (See Müller, Andrew, assignor.)						
Lambert, Henry E., Logansport, Ind. Tool for clinching fence-wires	341,665	May 11	968	256	35	694
Lambert, Richard, *et al.* (See Kelly, John J., assignor.)						
Lambert, William F., San Francisco, Cal. Bath apparatus	347,430	Aug. 17	1326	354	36	725
Lambertson, Spafford W., Newark, N. J. Filter	339,791	Apr. 13	1012	250	35	185
Lambeth, Alexander C., Denver, Colo., assignor to S. W. Lambeth, Philadelphia, Pa. Riding-saddle	342,111	May 18	1574	420	35	817
Lambeth, Samuel W. (See Lambeth, Alexander C., assignor.)						
Lambing, Isaac P., Ione, Cal. Vertical shaft-bearing	347,431	Aug. 17	1328	354	36	726
Lamborn, Wilmer W., assignor of one-half to C. D. Preston, Peoria, Ill. Road-machine	341,151	May 4	247	73	35	550
Lamline, Charles M., *et al.* (See Philippi, Jacob, assignor.)						
Lamm, Friedrich L., Eau Carrass, Wis. Water-wheel	348,400	Aug. 31	2736	734	36	1003
Lamont, Hugh, Blissfield, Mich., assignor of three-eighths to W. Hubbard, Elgin, Ill. Mechanical telephone	338,983	Mar. 30	2881	762, 763	34	1471
Lamoreaux, Jeremiah. (See Slater and Lamoreaux.)						
Lamoreaux, Jeremiah, Fremont, Mich. Button-attaching machine	353,791	Dec. 7	191	52	37	1042
Lamoureux, Sylvain, Paris, France. Baker's oven	347,181	Aug. 10	976	260, 261	36	653
Lampert, Michael J., New York, N. Y. Watch-movement holder	351,871	Nov. 2	204	57	37	496
Lamplugh, James A., Birmingham, England. Luggage-carrier for bicycles	343,909	June 15	1631	416	35	1318
Lamplugh, James A., Birmingham, England. Luggage-carrier for velocipedes	352,331	Nov. 9	876	236	37	627
Lampson, Daniel, Rockford, Ill. Wringer-roll	334,956	Jan. 26	2032	542	34	397
Lamson, Ebenezer G., Shelburne Falls, Mass. Tool-receptacle	353,419	Nov. 30	2371	632	37	934
Lamson, Warren H., Lynn, Mass. Pencil-sharpener	334,242	Jan. 12	1065	282	34	296
Lamson, Warren H., Lynn, Mass. Writing and drawing book	339,196	Apr. 6	110	31	35	23
Lanback, H. H. (See Schmidt, Theodore F. W., assignor.)						
Lancaster, Charles P., Fairmount, Ind. Painting and whitewashing machine	352,332	Nov. 9	878	236	37	628
Lancaster, Elias H., Marion, Ind. Corn-planter	352,923	Nov. 23	1653	444	37	792
Lancaster, James H. (See Hudson, Rowe, and Heslop, assignors.)						
Lance, William L., Philadelphia, Pa. Utilizing oil-cloth waste	354,711	Dec. 21	1554	411	37	1304
Land, James P., assignor of one-half to C. P. Ring, Philadelphia, Pa. Apparatus for carbonizing and destroying vegetable-matter in wool	336,121	Feb. 16	1462	387	34	717
Landaker, Peter. (See Rice and Landaker.)						
Landelle, Ernest, assignor to N. Blum, Paris, France. Screw-cutting machine	342,520	May 25	2172	575	35	931
Lander, Harris P., Kingfield, Me. Rake	334,444	Jan. 19	1346	365	34	264
Landers, Frary & Clark. (See Gérard and Smith, assignors.)						
Landes, Jacob M., Gehman, Pa. Agricultural implement	354,324	Dec. 14	997	264, 265	37	1194
Landfear, William R., Brooklyn, N. Y. Stop-motion mechanism for machines for doubling and spinning silk, &c	336,570	Feb. 23	2124	556, 557	34	837
Landfear, William R., Brooklyn, N. Y. Rotary printing-machine	346,592	Aug. 3	176	47 48	36	494
Landgraf, Casper, Chicago, Ill. Saw-setting machine	335,596	Feb. 9	716	191	34	576
Landgraf, Sepastian, New York, N. Y. Lock	342,611	May 25	2296	607	35	955
Landgraf, Sepastian, New York, N. Y. Lock for boxes, trunks, &c	350,371	Oct. 5	359	103	37	73
Landis, Abraham B., Waynesborough, Pa. Feed mechanism for saw-mills	337,507	Mar. 9	867	220	34	1088
Landis, Ezra F., Lancaster, Pa. Steam-radiator	351,271	Oct. 19	1665	436	37	317
Landis, Frank F., Waynesborough, Pa. Traction and other engines	337,840	Mar. 16	1288	334	34	1170
Landis, Frank F., Waynesborough, Pa. Traction-engine	337,841	Mar. 16	1290	334	34	1171
Landis, Frank F., Waynesborough, Pa. Grate and grate-bar	341,924	May 18	1313	351	35	769
Landis, Frank F., Waynesborough, Pa. Gang-plow	352,196	Nov. 9	702	187, 188	37	595
Landis, Israel L. (See Denney, Samuel L., assignor.)						
Landis, Israel L., Lancaster, Pa. Fence	339,434	Apr. 6	460	111	35	85
Landis, Israel L., Lancaster, Pa. Gate	339,903	Apr. 13	1158	288	35	213
Landis, Israel L., Lancaster, Pa. Slicing-machine	339,904	Apr. 13	1160	288	35	214
Landis, Jeremiah, Brookville, Ohio. Swinging gate	335,937	Feb. 9	1204	320	34	663
Landis, Samuel E., Philadelphia, Pa. Machine-belt fastener	346,113	July 27	1865	482	36	357
Landolt, Henry J., assignor to Sargent & Co., New Haven, Conn. Meat-cutter	352,414	Nov. 9	978	263	37	649
Landon, Albert, Rutland, Vt. Sand and water feeding mechanism	345,976	July 20	1684	435	36	315
Landon, William L., Jersey County, Ill. Tongue-support	352,197	Nov. 9	704	188	37	595
Lane, Alexander O., *et al.* (See Sturgis, Charles M., assignor.)						
Lane, Almeron M., Meriden, Conn. Escapement-lever for time-pieces	348,980	Sept. 14	606	160	36	1164
Lane, Almeron M., Meriden, Conn. Calendar-clock	348,981	Sept. 14	606	160	36	1164
Lane, Almeron M., Meriden, Conn. Calendar-clock	348,982	Sept. 14	607	160	36	1164
Lane, Andrew W., Janesville, Cal. Wheel-hub	350,254	Oct. 5	212	61	37	44
Lane, Charles C., San Francisco, Cal. Expanding drill-bit for Artesian-well boring	345,385	July 13	809	204	36	151
Lane, David T., Franklin, Pa. Pumping apparatus for oil-wells	342,112	May 18	1575	420	35	817
Lane, Fred. A., assignor to New Haven Clock Company, New Haven, Conn. Clock-movement	344,584	June 29	2569	665, 666	35	1502

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lane, George. (See Braithwaite, Lane, and Herring.)						
Lane, George M., Asbury Park, N. J. Electric-arc light	350,140	Oct. 5	56	16	37	13
Lane, Henry M., Cincinnati, Ohio. Tension apparatus for cable railways	342,367	May 25	1949	515	35	892
Lane, Henry M., Norwood, Ohio. Cable railway	342,368	May 25	1950	515, 516	35	893
Lane, Henry M., Norwood, Ohio. Grip-cable railway	344,533	June 29	2511	647	35	1491
Lane, Henry M., Cincinnati, Ohio. Curve-pulley construction for cable railways	352,763	Nov. 16	1436	387	37	742
Lane, Henry M., Cincinnati, Ohio. Cable railway	353,313	Nov. 30	2217	594	37	905
Lane, James B., *et al.* (See McCallister and Hoagland, assignors.)						
Lane, John G., *et al.* (See Lane, William J., assignor.)						
Lane, M. Henry, Kalamazoo, Mich. Road-cart	346,555	Aug. 3	132	36	36	485
Lane, M. Henry, and J. H. Cloves, Kalamazoo, Mich. Two-wheeled vehicle	344,186	June 22	2025	518	35	1397
Lane, Martin O., Altoona, Pa. Sash-fastener	341,152	May 4	249	73, 74	35	550
Lane, Mary, Hot Springs, Ark. Hose-nozzle holder	352,697	Nov 16	1356	366	37	726
Lane, Robert P., *et al.* (See McCallister and Hoagland, assignors.)						
Lane, William J., Poughkeepsie, N. Y. Harrow	338,531	Mar. 23	2232	586	34	1350
Lane, William J., Poughkeepsie, N. Y. Stay-roller	350,751	Oct. 12	914	246	37	174
Lane, William J., assignor of two-thirds to J. G. Lane, Poughkeepsie, N. Y., and W. H. Field, Greenwich, Conn. Steam-engine	351,986	Nov. 2	375	102, 103	37	528
Lane, William N., and E. E. Hale, Dexter, Me. Carpet-stretcher	343,462	June 8	1029	256	35	1200
Lane, Zenas M., Rockland, Mass. Machine for arranging shoe-blanks	338,277	Mar. 23	1887	495, 496	34	1289
Lang, Alfred. (See Brent and Lang.)						
Lang, Alois, and T. W. Talbot; said Talbot assignor to said Lang, Florence, S. C. Sash-balance	352,415	Nov. 9	979	263	37	649
Lang, Edward M., Jr., Falmouth, Me. Soldering-tool	337,842	Mar. 16	1292	335	34	1171
Lang, Frederick C., Jersey City, N. J. Liquid-bedded keel-block	341,582	May 11	856	227	35	672
Lang, Henry, and C. A. Gracter, Andover, Mass. Extension device for lamps	334,243	Jan. 12	1066	283	34	206
Lang, John C., Boston, Mass. Paper-file	353,953	Dec. 7	439	120	37	1086
Lang, Lewis H., and J. W. Hart, Stockton, Cal. Blow-gun	344,915	July 6	168	43	36	31
Lang & Shepard. (See Shepard, Stephen A., assignor.)						
Lang, William, New York, N. Y. Car-brake	339,905	Apr. 13	1161	289	35	214
Lang, William, Brooklyn, N. Y. Metal-feeding roll	345,386	July 13	811	204, 205	36	151
Lang, William, Brooklyn, N. Y. Machine for straightening and cutting wire	346,291	July 27	2119	545, 546	36	406
Lang, William, Brooklyn, N. Y. Pneumatic wall-bracket	355,021	Dec. 28	1986	523	37	1396
Lang, William A. (See Lalley, Lang, and Stephens.)						
Lang, William H., Burlington, Vt. Metallic packing for pistons	350,004	Sept. 28	2017	521	36	1447
Langau, John B., Chicago, Ill. Pan for packing candy	345,907	July 20	1589	410	36	298
Langdon-Davies, Charles, London, England. System of telephony and telegraphy	351,367	Oct. 26	1797	473	37	347
Langdon, Frank E., assignor to J. C. Rice, Grundy Centre, Iowa. Draft-equalizer	342,612	May 25	2297	607	35	955
Langdon, Joseph A., Pittsburg, Pa. Furnace	341,253	May 4	393	108	35	578
Lange, John H., New York, N. Y. Compound for producing color on wall-paper, cloth, &c.	343,378	June 8	908	.....	35	1179
Lange, John H., New York, N. Y. Ornamenting the surface of paper, cloth, &c.	343,379	June 8	909	.....	35	1179
Lange, Philipp, assignor to E. W. Moore, New York, N. Y. Electric-clock movement	343,976	June 15	1720	440	35	1335
Langham, Thomas, assignor of one-half to T. A. Pearce, Philadelphia, Pa. Knitting-machine	341,254	May 4	395	109	35	578
Langhorne, John S., Lynchburg, Va. Device for picking fruit, flowers, &c.	337,168	Mar. 2	383	100	34	996
Langley, William E. (See Seeley and Langley.)						
Langlot, Adam G., La Grange, Mo. Corn-planter attachment	345,387	July 13	812	205	36	152
Langmaid, Charles E., *et al.* (See Langmaid, George A., assignor.)						
Langmaid, George A. (See Bullard and Langmaid.)						
Langmaid, George A., Portsmouth, N. H., assignor, by mesne assignments, to G. A. and C. E. Langmaid, Middleborough, Mass. Shoe or gaiter-boot	349,164	Sept. 14	863	221	36	1210
Langston, Henry J., Garrettsville, Ohio. Table-corner	353,144	Nov. 23	1981	529	37	854
Langston, Joseph M., Berlin, Ill. Draft-equalizer	334,874	Jan. 26	1929	514	34	379
Langstrom, Albert, Council Bluffs, Iowa. Transom-lifter	339,435	Apr. 6	461	111	35	85
Langstrom, Albert, Council Bluffs, Iowa. Wrench	343,038	June 1	366	94	35	1074
Langton, John, Jr. (See Kruesi and Langton.)						
Langworthy, Fred B. (See Cramer and Langworthy.)						
Lanier, Thomas W., Guyton, Ga. Self cooler and strainer for sirup and sugar	335,706	Feb. 9	870	230	34	602
Laning, George, La Salle, Ill. Corn-planter	350,752	Oct. 12	915	246	37	174
Lanner, Charles, assignor of one-half to G. Starks, Minneapolis, Minn. Harrow	336,415	Feb. 16	1913	501	34	795
Lanning, James. (See Alston, Samuel W., assignor.)						
Lanton, Peter. (See Lynch and Lanton.)						
Lantz, Anthony W., Cambridge, Mass. Liniment	354,425	Dec. 14	1121	.....	37	1219
Lantz, Isaac, Lane, Kans. Gate	352,417	Nov. 9	981	264	37	649
Lantz, John A., assignor to G. T. Oliver, Pittsburg, Pa. Coupling for electrical wires	349,397	Sept. 21	1182	306	36	1280
Lantz, John A., assignor to G. T. Oliver, Pittsburg, Pa. Coupling for electrical wires	349,398	Sept. 21	1183	306	36	1280
Lantz, Menno S., Chestnut Hill, Pa. Carpet-tack tool	352,416	Nov. 9	980	264	37	649
Lanz, Charles, Pittsburg, Pa. Brick-kiln	336,328	Feb. 16	1792	468	34	771
Lapeyre, Antoine, Paris, France. Adding-machine	346,927	Aug. 10	616	165	36	587
Lapham, Joseph H. and O. T., Cleveland, Ohio. Wash-board plate	339,667	Apr. 13	838	206	35	154
Lapham, Owen T. (See Lapham, Joseph H. and O. T.)						
Lapham, Winfield S., Clemmons, Colo. Saddle-fastening	350,255	Oct. 5	213	61	37	44
Lapp, John. (See Dann and Lapp.)						
Lappin, Frank, Wilmington, Del., assignor, by mesne assignments, to E. M. and G. W. Marter. Safety-door for railway-car platforms. (Reissue)	10,709	Apr. 6	759	187, 188	35	134
Lapsley, John B., *et al.* (See Wright, W. Abram, assignor.)						
Lapsley, John W., *et al.* (See Wright, W. Abram, assignor.)						
Laraway, George W., Boston, Mass., assignor, by mesne assignments, to himself and J. Seiberling, Akron, Ohio. Mechanism for preventing a molded barrel-body from shrinking	339,064	Mar. 30	3006	795	34	1491
Laraway, George W., Boston, Mass., assignor, by mesne assignments, to himself and J. Seiberling, Akron, Ohio. Mechanism for use in supporting the paper-pulp molded heads of barrels while being dried	345,705	July 20	1302	337	36	248
Largent, James J., assignor of two-thirds to T. R. Daniels and M. Wilz, Peoria, Ill. Car-coupling	337,508	Mar. 9	870	221	34	1088
Largiader, Anthony P., Strasburg, Germany. Exercising apparatus	339,668	Apr. 13	839	207	35	155
Larish, Joseph W., Buffalo, N. Y., assignor to Baltimore and Ohio Telegraph Company, Baltimore, Md. Quadruplex telegraph	340,130	Apr. 20	1473	372, 373	35	275
Larkin, John D., *et al.* (See Robbins, Arthur C., assignor.)						
Larkin, Mathew, Jr., *et al.* (See O'Riordan, James, assignor.)						
Larmay, George, Chazy, N. Y. Car-coupling	345,152	July 6	492	126	36	89

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Larsen, August L., and C. E. Winterros, Liege, Belgium. Magazine fire-arm	334,244	Jan. 12	1068	283, 284	34	206
Larsen, Hans A., Minneapolis, Minn. Wrench	334,077	Jan. 12	806	221	34	158
Larsh, James A. (See Brown and Larsh.)						
Larson, Chris, assignor to Larson, Torgerson & Co., Chicago, Ill. Desk	333,760	Jan. 5	364	99	34	68
Larson, Torgerson & Co. (See Larson, Chris, assignor.)						
Larsson, Anders, Chesterton, Ind. Transposing key-board for musical instruments	339,906	Apr. 13	1162	289	35	214
Lasar, Godfrey H. (See Baldrige and Lasar.)						
Lasar, Godfrey H., St. Louis, Mo. Locking device for key-boards of type-writing machines	336,725	Feb. 23	2343	614	34	878
Lasar, Godfrey H., St. Louis, Mo. Telegraph-transmitter	338,757	Mar. 30	2566	678	34	1414
Lash, Horace W. (See Matthes and Lash.)						
Lash, John F., Toronto, Ontario, Canada. Paper-cutting machine	354,641	Dec. 21	1458	386	37	1285
Lash, John F., Toronto, Ontario, Canada. Hand-rest	354,712	Dec. 21	1554	412	37	1304
Lash, John F., Toronto, Ontario, Canada. Letter-copying machine	354,794	Dec. 21	1670	442	37	1326
Lashell, Ralph M. (See Williams and Lashell.)						
Lasher, Charles W., Davenport, Iowa. Stove-pipe damper	341,023	May 4	66	18	35	518
Lasher, Frank. (See Brown and Lasher.)						
Lasher, Lemuel A. (See Stephenson and Lasher.)						
Lasher, Morgan E., Champaign, Ill. Metallic sweat-pad for horse-collars	351,272	Oct. 19	1662	436	37	317
Laska, Mathias A., New Orleans, La. Automatic water-works	336,327	Feb. 16	1790	468	34	771
Laska, Mathias A., New Orleans, La. Coffee-roaster	340,328	Apr. 20	1770	452	35	329
Laskey, John H., assignor to I. F. Dobson, J. F. and E. E. Reynolds, Boston, Mass. Lasting-machine	353,145	Nov. 23	1981	529, 530, 531	37	854
Laskey, Philip B., Marblehead, Mass. Candy-crimping machine	337,509	Mar. 9	871	221	34	1089
Lassiter, Nannie M. (See Rodes, Florida M., assignor.)						
Lasswell, John, Augusta, Kans. Churn	348,331	Aug. 31	2638	711	36	984
Latch, Arthur, Westminster, county of Middlesex, England. Manufacture of metal tubes	334,531	Jan. 19	1470	394	34	286
Latchford, William J., assignor of one-third to H. T. King and M. I. McKusick, Stillwater, Minn. Rafting-wedge	345,153	July 6	493	126	36	90
Lateulére, Albert A., assignor to himself and G. F. Beutner, London, England. Music-box	350,256	Oct. 5	214	61	37	44
Latham, Albert, Waltham, Mass. Machine for forming counterbores, reamers, and counter-sinks	339,197	Apr. 6	111	31, 32, 33	35	23
Latham, Albert, Waltham, Mass. Counterbore-facing machine	344,283	June 22	2160	553	35	1420
Latham, Albert, Waltham, Mass. Machines for facing counterbores	350,141	Oct. 5	57	16, 17	37	13
Latham, E. Austin, assignor to Carver Cotton Gin Company, East Bridgewater, Mass. Leather-skiving machine	350,753	Oct. 12	917	246, 247	37	174
Latham, Ephraim, Washington, D. C., assignor of two-thirds to T. J. Powell, Brooklyn, N. Y., E. A. Sawyers, Brownsville, Oreg., and L. W. Perkins, New Orleans, La. Car-coupling	353,146	Nov. 23	1984	531	37	855
Latham, Ernest. (See Poore, Ingrey, and Latham.)						
Latham, W. F. (See Hawley, Henry, assignor.)						
Latham, William, South Cleveland, Ohio. Smoke-preventing furnace	341,255	May 4	396	109	35	578
Lathrop, Elias, assignor to Fleming Manufacturing Company, Fort Wayne, Ind. Road-scraper	334,177	Jan. 12	957	260	34	185
Lathrop, Florence L. (See Jones, Charles T., assignor.)						
Lathrop, Frank L., Brooklyn, N. Y. Galvanic battery	334,788	Jan. 26	1820	485	34	359
Lathrop, Levi B., Hollister, Cal. Mail-pouch	348,678	Sept. 7	203	53, 54	36	1084
Lathrop, Peter H., *et al.* (See Linindoll, Charles C., assignor.)						
Latimer, Harry I., Cranford, assignor of one-half to R. I. Sloan, Asbury Park, N. J. Elevated railway	354,558	Dec. 21	1323	351	37	1261
Latimer, Lewis H., New York, N. Y. Apparatus for cooling and disinfecting	334,078	Jan. 12	807	222	34	158
Latimer, Lorenzo D., *et al.* (See Kelly, John J., assignor.)						
Latimer, William G. (See Davis and Latimer.)						
Latta, Adrian C. (See Latta, Emmit G., assignor.)						
Latta, Adrian C. (See Latta, Emmit G. and A. C.)						
Latta, Emmit G., assignor of one-half to A. C. Latta, Friendship, N. Y. Velocipede	337,271	Mar. 2	520	136	34	1022
Latta, Emmit G., assignor of one-half to A. C. Latta, Friendship, N. Y. Velocipede	346,292	July 27	2121	546	36	406
Latta, Emmit G., assignor of one-half to A. C. Latta, Friendship, N. Y. Velocipede	347,357	Aug. 17	1231	328	36	708
Latta, Emmit G., assignor of one-third to A. C. Latta, Friendship, N. Y. Velocipede	341,811	May 11	1159	309	35	732
Latta, Emmit G., assignor of one-third to A. C. Latta, Friendship, N. Y. Velocipede	343,959	June 15	1698	435	35	1331
Latta, Emmit G. and A. C., Friendship, N. Y. Velocipede	339,436	Apr. 6	462	112	35	85
Latulip, Frederick, assignor to R. E. Hover, Syracuse, N. Y. Chair seat and back	335,461	Feb. 2	519	135	34	534
Latulip, Frederick, assignor of one-fourth to J. P. Aumond, Syracuse, N. Y. Tanning process	341,583	May 11	856	228	35	672
Latulip, Frederick, assignor of one-fourth to J. P. Aumond, Syracuse, N. Y. Tanning process. (Reissue)	10,792	Dec. 21	1789	471	37	1348
Laubach, Isaac H., Pen Argyl, Pa. Washing-machine	333,074	Nov. 23	1875	506	37	832
Laube, Godfried, Huron, Dak. Ter. Egg-beater	346,375	July 27	2237	574	36	428
Laube, Godfried, Huron, Dak. Ter. Cigar-tray	347,182	Aug. 10	978	261	36	653
Laubscher, Alexander. (See Marsh and Laubscher.)						
Läuchli, Henri, St. Imier, Switzerland. Dial for speed-measures	333,641	Jan. 5	188	50, 51	34	37
Lauderholm, Andrew F. (See Nelson and Lauderholm.)						
Lauer, Jean P., Buffalo, N. Y. Handsaw	346,482	Aug. 3	43	11	36	468
Lauer, John E., New York, N. Y. Preparing gluten flour and bread	334,245	Jan. 12	1072	.....	34	207
Lauer, Joseph W., Mountain View, Cal. Liniment	344,051	June 22	1833	.....	35	1361
Laufer, Charles, Lee, assignor of one-half to S. Van Dresar, Rome, N. Y. Wire-stretcher	354,153	Dec. 14	747	200	37	1149
Laufer, Elizabeth, Cincinnati, Ohio. Sewing-machine table	347,358	Aug. 17	1233	328	36	708
Lauffer, Simon D., C. F. Bilhimer, and W. Williams, Irwin, Pa. Burglar-alarm	343,314	Nov. 30	2219	594	37	906
Laughlin, Alexander W., Brookville, Iowa. Grip for stretching wire	345,154	July 6	494	126	36	90
Laughlin, Henry A., Pittsburg, Pa. Regenerative hot-blast stove	355,181	Dec. 28	2217	585	37	1442
Laughlin, Hugh B. (See Leyburn and Laughlin.)						
Laughton, Joseph B., Brooklyn, N. Y. Bath-rubber	351,927	Nov. 2	288	80	37	510
Laughton, Joseph B., Brooklyn, N. Y. Color or ink pad	351,928	Nov. 2	289	80	37	511
Laughton, Joseph B., Brooklyn, N. Y., assignor to himself, A. F. Bishop, and J. H. Aiken, Norwalk, Conn. Buffer and polisher	334,671	Jan. 19	1665	445	34	322
Lauhoff, Frank, Detroit, Mich. Roller-mill	333,866	Jan. 5	505	138	34	94
Lauhoff, Frank, Detroit, Mich. Machine for flattening tobacco-stems	333,867	Jan. 5	507	138, 139	34	94
Lauhoff, Joseph, Detroit, Mich. Lubricating device	333,868	Jan. 5	508	139	34	94
Launins, Charles A., assignor of one-half to T. G. Launius, High Shoals, Ga. Device for transmitting power	348,022	Aug. 24	2195	585	36	894

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Launius, Thomas G. (See Launius, Charles A., assignor.)						
Laurie, John G., South Chicago, Ill. Rolling-mill	343,643	June 15	1276	321	35	1252
Lauth, Bernard, Howard, Pa. Reducing old steel railway-rails to steel plates	335,938	Feb. 9	1206	321	34	663
Lauth, Bernard C., *et al.* (See McCarty, William F. M., assignor.)						
Lauth, Bernard C., *et al.* (See McCarty, William F. C. M., assignor.) (Reissue.)						
Lauth, Joseph H., Fremont, Nebr. Spring tug-link	347,812	Aug. 24	1892	505	36	939
Lauth, Philippe, Carcassonne, France. Malt-drier	341,256	May 4	396	109, 110	35	578
Lautner, William C., Detroit, Mich. Coffin	336,416	Feb. 16	1914	502	34	795
Lavaggi, John C., Lancaster, Pa. Hat, bonnet, and apparel rack or stand	346,293	July 27	2124	547	36	407
Lavering, Morgan, and E. H. Anspaugh, Columbia City, Ind. Grain-separator	343,822	June 15	1521	383	35	1297
Lavering, Morgan, and E. H. Anspaugh, Columbia City, Ind. Traction wheel	344,346	June 29	2307	594	35	1454
Laverty, Charles E., Allegheny, assignor to J. C. Dilworth, Pittsburg, Pa. Bung-pan	336,486	Feb. 16	2007	526	34	811
Lavery, George L., East Boston, Mass. Mouth-piece for telephone-transmitters	336,329	Feb. 16	1793	469	34	772
Lavery, Richard. (See Bennett, Edwin, assignor.)						
Lavigne, Joseph P., assignor to J. Halliwell, New Haven, Conn. Combined ruffler and scalloper for sewing-machines	343,463	June 8	1029	256	35	1200
Lavigne, Joseph P., assignor to J. Halliwell, New Haven, Conn. Tuck-marker	343,464	June 8	1032	257	35	1201
Law, James A., New York, N. Y. Cabinet for holding spools of thread, &c.	354,912	Dec. 28	1840	486, 487	37	1370
Law, Robert, Toledo, Ohio. Mortar-hod	333,527	Jan. 5	43	12	34	11
Law, Thomas, Manhattan, Kans. Weather-strip for doors	335,939	Feb. 9	1207	321	34	664
Law, Thomas, Moulton, Iowa. Plastic compound to be used in the manufacture of burial-caskets, furniture, &c.	336,726	Feb. 23	2344		34	878
Lawless, John H., Jersey City, N. J. Self-acting supply-tank	338,984	Mar. 30	2884	763	34	1471
Lawlor, William V., San Francisco, Cal. Washing-machine	339,065	Mar. 30	3007	795	34	1492
Lawrence, Alvin, assignor of one-half to C. Whitaker and C. H. Fisher, Lowell, Mass. Speed-governor	335,228	Feb. 2	206	53, 54	34	476
Lawrence, Arthur B., New Haven, Conn. Laundry fork or washer	336,122	Feb. 16	1470	387	34	717
Lawrence, David G., New York, N. Y. Daubing-brush	346,662	Aug. 3	269	74	36	513
Lawrence, Eva M., *et al.* (See Lawrence, John R., assignor.)						
Lawrence, Franklin M. (See Gibson and Lawrence.)						
Lawrence, George C., Brooklyn, N. Y. Manufacture of vulcanized fiber and similar materials	336,330	Feb. 16	1794	469	34	772
Lawrence, John H., Sterling, Ill. Track for barn-door hangers	350,538	Oct. 12	612	159	37	118
Lawrence, John R., assignor to M. H. Baker and E. M. Lawrence, Highland Park, Ill. Watch-maker's eyeglass	350,005	Sept. 28	2018	521	36	1447
Lawrence, Joseph A., Sherman, Tex. Band-stretcher	336,571	Feb. 23	2125	557	34	838
Lawrence, Joseph M., Houston, Tex. Coffee-pot	349,505	Sept. 21	1332	345	36	1309
Lawrence, Robert M. and W. J., Bradford, Ontario, Canada. Fifth-wheel	343,639	June 1	367	95	35	1074
Lawrence, Robert S., Washington, D. C. Carburetor	340,221	Apr. 20	1614	408	35	301
Lawrence, Robert S., Washington, D. C. Carburetor	342,445	May 25	2056	542	35	911
Lawrence, Robert S., Washington, D. C. Apparatus for mixing air and gas and delivering the mixture to carburetors	354,067	Dec. 7	602	165	37	1116
Lawrence, Russell F., Buffalo, N. Y. Bouquet-holder	349,107	Sept. 14	791	200	36	1195
Lawrence, Samuel E., Utica, N. Y. Smoker's appliance	338,421	Mar. 23	2089	547	34	1325
Lawrence, William, and H. V. Dibble, Bethel, Conn. Hat-brim	346,593	Aug. 3	179	48	36	494
Lawrence, William E., New York, N. Y. Curry-comb	339,437	Apr. 6	464	112	35	86
Lawrence, William E., New York, N. Y. Curry-comb	345,155	July 6	495	127	36	90
Lawrence, William J. (See Lawrence, Robert M. and W. J.)						
Lawrenz, William F., Duluth, Minn. Rotary steam-engine	349,108	Sept. 14	792	200	36	1195
Lawrie, Jefferson, Boston Mass. Check-rein holder	333,528	Jan. 5	44	13	34	11
Lawry, Ira F., Taunton, Mass. Machine for condensing warps for being dyed	334,122	Jan. 12	873	239	34	169
Laws, William. (See Barnes and Laws.)						
Lawshe, John. (See Leede, Julius, assignor.)						
Lawshe, John. (See Leede and Lawshe.)						
Lawson, Benjamin S., Brooklyn, N. Y. Grinding-mill	346,854	Aug. 3	501	138	36	558
Lawson, David T. (See Fernald and Lawson.)						
Lawson, Edward D., New York, N. Y. Coat and hat hook	353,567	Nov. 30	2590	691	37	976
Lawson, Fred M., Cambridge, Mass. Upright piano action	350,006	Sept. 28	2019	521	36	1448
Lawson, George W., *et al.* (See Reynolds, Perry E., assignor.)						
Lawson, Henry, assignor to V. S. Lawson, Baltimore, Md. Oyster-dredge windlass	355,271	Dec. 28	2349	618	37	1468
Lawson, Henry J., Coventry, county of Warwick, England. Velocipede	345,851	July 20	1514	392	36	283
Lawson, Ishmael, Butte, Mont. Ter. Knife-cleaner	333,761	Jan. 5	365	99	34	68
Lawson, James, Denver, Colo. Lawn-sprinkler	347,359	Aug. 17	1234	329	36	708
Lawson, Thomas F., and W. K. Burton, Athens, Ga. Basket	354,713	Dec. 21	1555	412	37	1304
Lawson, Thomas F., and T. Bailey, assignors of one-third to L. Schevenell, Athens, Ga. Car-coupling	344,387	June 29	2307	595	35	1454
Lawson, Virginia S. (See Lawson, Henry, assignor.)						
Lawson, William, Dublin, Ireland. Bottle-capsule	353,751	Dec. 7	136	38	37	1032
Lawtenslager, Albert. (See Adams, Felthousen, and Lawtenslager.)						
Lawton, Arthur W., *et al.* (See McMurray, Louis, assignor.)						
Lawton, Edwin R. (See Jeralds and Lawton.)						
Lawton, George W., New York, N. Y. Pressure-regulator	347,118	Aug. 10	888	235	36	636
Lawton, William, *et al.* (See O'Riordan, James, assignor.)						
Laxton, George H., Jersey City, N. J. Soap-dish	349,890	Sept. 28	1863	481	36	1419
Lay, William, Omaha, Tex. Steam-plow	348,401	Aug. 31	2737	734, 735	36	1003
Lay, William, Omaha, Tex. Motor	350,257	Oct. 5	215	62	37	45
Laylander, John. (See Benner, Daniel G., assignor.)						
Layman, Stephen D., and H. C. Hansen, Boston, Mass. Perforating-machine	354,913	Dec. 28	1841	487	37	1370
Lazelle, Henry C., Woonsocket, R. I. Compression-roll for slasher-dressers for cotton-warps	342,613	May 25	2298	608	35	955
Le Clair, George, Mexico, assignor to C. Moulter and M. D. Griffin, Syracuse, N. Y. Tobacco-cutting machine	348,402	Aug. 31	2738	735	36	1004
Le Compte, Joseph, Troy, N. Y. Sleigh	350,373	Oct. 5	361	104	37	73
Le Duke, Jeremiah, Berea, Ohio. Derrick	352,333	Nov. 9	879	236	37	628
Le Furge, A. W., *et al.* (See Smith, James E., assignor.)						
Le Gay, Edward J., Boston, Mass. Combined sole and heel	350,539	Oct. 12	613	169, 170	37	118
Le Gay, Edward J., Boston, Mass. Uniting the sole and heel of boots or shoes	350,540	Oct. 12	614	170	37	119
Le Grande, William W., assignor of eleven twenty-fourths to H. R. and W. W. Dering and T. H. Upperman, Louisville, Ky. Railway-signal	341,666	May 11	969	257	35	694
Le Grande, William W., assignor of eleven twenty-fourths to H. R. and W. W. Dering and T. H. Upperman, Louisville, Ky. Galvanic battery	346,207	July 27	2006	517	36	384

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Le Grande, William W., assignor to H. R. and W. W. Dering, T. H. Upperman, Louisville, Ky., and G. E. Rockwell, Indianapolis, Ind. Electro mechanical signal apparatus	351,384	Oct. 26	1822	479 / 480	37	351
Le Grande, William W., and G. W. Burton; said Le Grande assignor to said Burton, Louisville, Ky. Watchman's electric signal-box	352,549	Nov. 16	1143	309	37	687
Le Grande, William W., assignor of one-half to H. R. and W. W. Deering, T. H. Upperman, Louisville, Ky., and G. E. Rockwell, Indianapolis, Ind. Electro-mechanical signal apparatus	352,903	Nov. 16	1622	436 / 437	37	778
Le Page, Matthew, Woodhaven assignor to Lalance & Grosjean Manufacturing Company, New York, N. Y. Coffee mill	333,870	Jan. 5	511	139	34	95
Le Page, Matthew, Woodhaven, assignor to Lalance & Grosjean Manufacturing Company, New York, N. Y. Press for the manufacture of sheet-metal goods	333,871	Jan. 5	512	140	34	95
Le Page, William N., Gloucester, Mass. Making fish-glue	351,607	Oct. 26	2189	.....	37	419
Le Roy, Charles J., St. Louis, Mo. Horseshoe	337,844	Mar. 16	1294	335	34	1171
Le Roy, Charles J., St. Louis, Mo. Automatic knife-grinder	348,753	Sept. 7	293	78	36	1102
Le Société Anonyme des Usines Franco-Russes. (See Koch, Charles, assignor.)						
Le Valley, John M., Easton, Mich. Seed-drill	342,522	May 25	2174	575	35	931
Lea, Samuel J., assignor to J. H. Lincoln, Chattanooga, Tenn. Dental drill	348,131	Aug. 24	2345	629	36	922
Leach, Henry B., Boston, Mass. Self-closing faucet	340,329	Apr. 20	1771	452	35	329
Leach, Joseph B., Roberts, Ill. Baking and roasting pan	352,136	Nov. 9	609	161	37	579
Leach, Leander, Joliet, Ill. Windmill	334,445	Jan. 19	1347	365	34	264
Leadley, James E., Nyack, N. Y. Making sheet-metal pipe	340,330	Apr. 20	1772	452	35	330
Leak, Elias, Trenton, N. J. Spinning-ring	343,151	June 1	545	138	35	1106
Leake, Albert Y., Marietta, Ga. Sash-fastener	354,914	Dec. 28	1843	487	37	1370
Leake, Albert Y., assignor of one-half to G. C. and G. S. Burnap, Marietta, Ga. Flour-bolt	334,246	Jan. 12	1073	284	34	207
Leake, Frank, Philadelphia, Pa. Terry-cloth	350,372	Oct. 5	360	104	37	73
Leaman, Robert F., assignor to Globe Files Company, Cincinnati, Ohio. Distributing-file	334,532	Jan. 19	1471	394	34	286
Leaman, Thomas, Erie, Pa. Shaft-coupling	350,631	Oct. 12	755	207	37	145
Learnard, Heber F., assignor of one-half to P. B. Learnard, Fort Collins, Colo. Blasting-plug	351,273	Oct. 19	1663	437	37	317
Learnard, Perry B. (See Learnard, Heber F., assignor.)						
Learned, William B., Boston, Mass. Attaching hubs to gear-wheels and pinions	344,321	June 22	2207	567	35	1429
Leary, Daniel, Greenville, N. J., assignor of one-half to S. Scheuer, New York, N. Y. Mandrel for circular saws	347,942	Aug. 24	2088	554	36	875
Lease, George M., Centralia, Mo. Cutter-bar for reapers and mowers	349,311	Sept. 21	1045	267	36	1254
Lease, Jesse A., Blue Grass, Ind. Farm-gate	342,113	May 18	1576	421	35	817
Leasure, James W., Bradford, Pa. Hotel-register	353,075	Nov. 23	1876	506	37	832
Leathers, Fernando F., *et al.*, trustees. (See Kneeller, Lewis, assignor.)						
Leavenworth, Frank H. (See Combs, Hiram S., assignor.)						
Leavitt, Charles, Cleveland, Ohio. Gripping device for cable railways	336,245	Feb. 16	1679	437	34	750
Leavitt, Frank M. (See Kittredge and Leavitt.)						
Leavitt, Frank M., Brooklyn, and A. O. Kittredge, Slate Hill, N. Y. Pricking-machine	343,180	June 8	595	148	35	1124
Leavitt, Frank M., Brooklyn, and A. O. Kittredge, Slate Hill, N. Y. Malleting-machine	343,540	June 8	1124	283 / 284	35	1218
Leavitt, Frank M., assignor to E. W. Bliss Company, Brooklyn, N. Y. Drop-hammer	350,007	Sept. 28	2020	522	36	1448
Leavitt, Frank M., Brooklyn, assignor to F. Haberman, New York, N. Y. Automatic car-bending machine	353,261	Nov. 23	2134	573 / 574	37	884
Leavitt, John L. (See Baca and Leavitt.)						
Lebanon Pump Company. (See Stevens, Frank M., assignor.)						
Leber, Luther H. (See Wahler and Leber.)						
Lebherz, Heinrich. (See Reinhardt and Lebherz.)						
Lechler, Anthony J., assignor to J. F. Hope, Philadelphia, Pa. Machine for rolling plastic material	343,523	June 8	1400	276	35	1213
Lechner, Francis M. (See Lechner, Van Amburg and S. C., assignors.)						
Lechner, Francis M., Columbus, Ohio. Furniture-caster	338,985	Mar. 30	2884	763	34	1471
Lechner Manufacturing Company. (See Pederson, Ole, assignor.)						
Lechner, Samuel C. (See Lechner, Van Amburg and S. C.)						
Lechner, Van Amburg and S. C., assignors of two-thirds to F. M. Lechner, Columbus, Ohio. Coal-mining machine	340,791	Apr. 27	2415	636 / 637	35	452
Leckie, James B., Chicago, Ill. Copying-roller	336,926	Mar. 2	60	16	34	937
Lecouteux, Hippolyte, and E. Garnier, Paris, France. Flexible joint or connection-pipe	338,848	Mar. 30	2690	709	34	1437
Ledan, John T. (See Manners, Stephen H. and C. E., assignors.)						
Ledbetter, William H., Dallas, Tex. Spark-arrester	341,336	May 4	513	141	35	598
Leddell, Charles S., Morristown, N. J. Velocipede	342,915	June 1	193	50	35	1040
Lederer, B. B., *et al.* (See Peck, William A., assignor.)						
Lederer, Jacob, New York, N. Y. Shirt	341,153	May 4	250	74	35	551
Lederle, Edward E., assignor of one-half to I. Stein & Co., Austin, Tex. Dinner-bucket	353,147	Nov. 23	1986	531	37	855
Ledlie, John. (See Peters, Carl A. F., assignor.)						
Leduc Tule Improvement Company. (See Hendry, Charles J., assignor.)						
Lee, A. Virgil, Chicago, Ill. Street-car	334,591	Jan. 19	1553	415	34	301
Lee, Andrew C., Gallatin, Tenn. Device for releasing animals	352,547	Nov. 16	1141	308	37	687
Lee, Arthur M. (See Hargrave and Lee.)						
Lee, Arthur M., Pomona, Ill. Combination blacking-box	348,468	Aug. 31	2834	762	36	1022
Lee, C. Smith, New York, N. Y. Torpedo-boat	333,762	Jan. 5	366	99	34	69
Lee, Charles C. (See Bryan, Louis W., assignor.)						
Lee, E. D. (See Morse, Henry T., assignor.)						
Lee, Everett D., Boston, Mass. Jack for boots and shoes	340,331	Apr. 20	1773	453	35	330
Lee, George P., Manchester, England. Vehicle-body	347,621	Aug 17	1607	426	36	778
Lee, Henry A. (See Thompson and Lee.)						
Lee, Homer, New York, N. Y. Numbering device	352,137	Nov. 9	610	161	37	579
Lee, Homer, New York, N. Y. Inking apparatus for printing-machines	353,792	Dec. 7	193	53	37	1042
Lee, James. (See Lee, John and J.)						
Lee, James H., Canandaigua, N. Y. Lawn-tennis-net support	337,591	Mar. 9	972	249	34	1007
Lee, James J., Worcester, Mass. Apparatus for coating wire	335,135	Feb. 2	51	14	34	449
Lee, James R. (See Torsch and Lee.)						
Lee, John, Sterling, Ohio. Soldering-iron	339,907	Apr. 13	1163	290	35	214
Lee, John and J., Hepperholme, county of York, England. Machine-belting	352,548	Nov. 16	1142	309	37	687
Lee, John E., Chicago, Ill. Show-case	352,828	Nov. 16	1521	410	37	757
Lee, John H. (See Lieb and Heins, assignors.)						
Lee, Louis S. (See Phipps and Burman, assignors.)						
Lee, Orange S., assignor to Clinton Wire Cloth Company, Clinton, Mass. Compression-roller for wire-warping machines	352,138	Nov. 9	612	162	37	580
Lee, Peyton A., Coushatta, La. Fertilizer-distributer	350,258	Oct. 5	217	63	37	45
Lee, Thomas, Cincinnati, Ohio. Combined strainer and trap for water-pipes, &c	335,366	Feb. 2	393	101	34	512
Lee, William D., assignor to T. E. Unks, Pittsburg, Pa. Pipe-coupling	343,246	June 8	688	170	35	1140
Lee, William J., Newport, Ky. Magazine-holder	338,758	Mar. 30	2568	678	34	1415

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Leech, Charles, Oakland, Cal. Automatic gas cut-off	344,916	July 6	168	43	36	31
Leech, William A., and J. Little, Lamar, Mo. Attachment for harrows	337,592	Mar. 9	973	249	34	1107
Leede, Julius, Washington, D. C., assignor to J. Lawshe, Colton, Cal. Automatic carbureting-lamp	336,572	Feb. 23	2126	557	34	838
Leede, Julius, Washington, D. C., assignor to J. Lawshe, Colton, Cal. Automatic carbureting-lamp	336,574	Feb. 23	2128	558	34	838
Leede, Julius, Washington, D. C., and J. Lawshe, Colton, Cal.; said Leede assignor to said Lawshe. Attachment for gas-service conduits	336,573	Feb. 23	2128	558	34	838
Leeds, Barclay R. (See Bassett, Nathan, assignor.)						
Leeds, Lewis W., London, England. Breakwater	334,032	Jan. 26	2142	569, 570	34	416
Leeds, Pulaski, Louisville, Ky., assignor to Railway Speed Recorder Company, Kent, Ohio. Balance slide-valve	339,438	Apr. 6	465	113	35	86
Leeland, Henry C., Hartford, Conn. Type-distributing machine	342,916	June 1	197	50, 51, 52	35	1041
Leermo, Eric O., Gold Hill, Nev. Cane-stool	345,852	July 20	1515	392	36	283
Lees, Robert, Providence, R. I. Condenser for steam-engines	333,763	Jan. 5	367	100	34	69
Leeson, Joseph R., *et al.* (See Brown, Edward L., assignor.)						
Leeson, Silas O. (See Bales and Leeson.)						
Leet, C. S. (See Huntley, Perry, assignor.)						
Lefavour, Fred G., Beverly, Mass. Hand-weeder	335,182	Dec. 28	2219	585	37	1442
Lefeber, Henry, Philadelphia, Pa. Bobbin-winder for sewing-machines	351,113	Oct. 19	1453	380	37	278
Lefever, Daniel M., Syracuse, N. Y. Breech-loading fire-arm	343,040	June 1	369	95	35	1074
Lefevre, John W., Mooney, Ind. Writing-teacher's cabinet	345,435	July 13	890	221, 222	36	165
Lefferts, Henry D. B., New Brunswick, N. J. Device for suspending curtains	352,953	Nov. 23	1694	455	37	799
Lefferts, Marshall C., New York, N. Y., assignor to Celluloid Manufacturing Company. Printing upon or decorating the surface of celluloid	346,376	July 27	2238	.....	36	428
Lefferts, Marshall C., New York, N. Y., and J. W. Hyatt, Newark, N. J., assignors to Celluloid Manufacturing Company, New York, N. Y. Printing on pyroxyline compounds	348,222	Aug. 31	2498	.....	36	956
Leflingwell, John G., Newark, N. J. Mitering-machine	334,247	Jan. 12	1076	285	34	208
Leffler, Charles. (See Thorn and Leffler.)						
Leffler, James. (See Barber, Alonzo, assignor.)						
Lehmann, Julius F. W., *et al.* (See McAllister, Daniel, assignor.)						
Lehmann, William, *et al.* (See McAllister, Daniel, assignor.)						
Leftwick, John T., Greensburg, Ky. Steam-pump	350,632	Oct. 12	756	207	37	145
Legg, Benjamin A., assignor to J. A. Jeffrey, Columbus, Ohio. Cutter for mining and other machines	340,792	Apr. 27	2418	637	35	453
Legg, Benjamin A., assignor to J. A. Jeffrey, Columbus, Ohio. Mining-machine	342,614	May 25	2299	608, 609	35	955
Legg, Benjamin A., assignor to J. A. Jeffrey, Columbus, Ohio. Mining-machine	347,813	Aug. 24	1893	505	36	839
Legg, George W., Edgbaston, near Birmingham, county of Warwick, England. Fastening for satchels, &c	351,183	Oct. 19	1550	407	37	297
Leggett, Clinton H., New York, N. Y. Package for liquid glue and other substances	334,592	Jan. 19	1554	413	34	302
Leggett, David T., and W. S. Sanders, Fishersburg, Ind. Shingling-bracket	336,727	Feb. 23	2344	614	34	878
Leggitt, John W., Sharon, Miss. Meat-hook	336,123	Feb. 16	1470	388	34	717
Lehman, Otto A., Brooklyn, N. Y. Clasp for satchels and pocket-books	338,351	Mar. 23	1987	523	34	1307
Lehmann, Charles, Jersey City, N. J. Starching-machine	344,662	June 29	2674	694	35	1524
Lehmann, Fred A. (See Denney, Mifflin P., assignor.)						
Lehmann, Frederick A., Washington, D. C., and W. C. Nye; said Lehmann assignor to said Nye and J. B. Duffey, Bradford, Pa. Sad-iron	342,615	May 25	2305	609	35	956
Lehmann, Hermann, Offenbach-on-the-Main, Germany. Fastening for pocket-books	351,327	Oct. 19	1735	456	37	329
Lehnbeuter, Joseph. (See Boulicault and Lehnbeuter.)						
Lehr, George, New York, N. Y. Pocket-metronome	342,446	May 25	2057	542	35	911
Lehr, J. W., *et al.* (See Funk, Daniel D., assignor.)						
Lehr, Joseph W. (See Lehr, Nicholas P. and J. W.)						
Lehr, Nicholas P. and J. W., Fremont, Ohio. Cultivator	353,148	Nov. 23	1987	531, 532	37	855
Lehy, Geoffrey B., Boston, Mass. Box-fastening	335,822	Feb. 9	1038	274	34	633
Leib, John. (See Price and Leib.)						
Leib, John, Sandy Run, Pa. Pipe-wrench	348,751	Sept. 7	292	78	36	1101
Leib, John, Sandy Run, Pa. Pipe-wrench	354,197	Dec. 14	814	216	37	1162
Leibfried, Levin F., Bethlehem, Pa. Sleigh-shaft	342,521	May 25	2173	575	35	931
Leidl, Josef, Nuremberg, Germany. Making tracing, reprinting, and transfer paper	355,022	Dec. 28	1986	.....	37	1397
Leidgen, Niclaus, Milwaukee, Wis. Door-closer	346,294	July 27	2124	547	36	407
Leidigh, Christian. (See Scott and Leidigh.)						
Leigh, Edwin, and T. Townend, Fall River, Mass. Electrical stopping device for motors	342,872	June 1	138	34	35	1031
Leigh, Evan A., Manchester, county of Lancaster, England. Carding-engine	335,760	Feb. 9	948	250, 251	34	617
Leigh, Evan A., Manchester, county of Lancaster, England. Carding-machine	335,761	Feb. 9	953	251, 252, 253	34	618
Leigh, James, Orono, Ontario, Canada. Traction-engine	343,910	June 15	1632	416, 417	35	1319
Leighton, James F., St. Louis, Mo. Combined shirt-stud and magnifying-glass	353,688	Dec. 7	49	13	37	1016
Leighton, William, Jr., Wheeling, W. Va. Glass-crimping machine	344,585	June 29	2572	666	35	1503
Leighton, William, Jr., and W. F. Russell, assignors to Hobbs, Brockunier & Co., Wheeling, W. Va. Manufacture of opalescent glassware	343,123	June 1	522	132	35	1101
Lelièvre, Ernest L. P., Caen, France. Nursing-bottle	345,518	July 13	1004	255	36	186
Leinbach, Felix W., *et al.* (See Honiss, William H., assignor.)						
Leinbach, Felix W., *et al.* (See Lorenz, William A., assignor.)						
Leinbach, Felix W., *et al.* (See Lorenz and Honiss, assignors.)						
Leineweber, Karl H. H., South Chicago, Ill. Automatic car-brake	340,587	Apr. 27	2134	551, 552	35	403
Leineweber, Karl H. H., Chicago, Ill. Automatic car-brake	354,915	Dec. 28	1844	488	37	1370
Leipziger Anilin Fabrik, Beyer & Kegel. (See Krüger, Fritz, assignor.)						
Leist, Andrew. (See Leist, William, assignor.)						
Leist, William, assignor of one-half to A. Leist, Cincinnati, Ohio. Automatic feed mechanism for power-presses	354,480	Dec. 14	1200	321	37	1232
Leistner, Paul, St. Louis, Mo. Garden-table	338,986	Mar. 30	2886	763	34	1471
Leitelt, Adolph, Grand Rapids, Mich. Machine for sawing stumps	341,667	May 11	971	257, 258	35	694
Leiter, Josef, Vienna, Austria-Hungary. Device for applying heat or cold to the body	341,584	May 11	857	228	35	672

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Leiter, Josef, Vienna, Austria-Hungary. Attaching handles to cutlery	343,665	June 15	1301	327	35	1256
Leizure, Enoch H. (See Russell, George, assignor.)						
Leland, Edwin J., Worcester, Mass. Galvanic battery	352,877	Nov. 16	1589	429	37	771
Lemaire, Jean T., assignor to J. Carty, Philadelphia, Pa. Feeding mechanism for carding-machines	333,869	Jan. 5	509	139	34	95
Leman, Frank, Elgin, Ill. Pinion-cutting machine	350,142	Oct. 5	60	17, 18, 19, 20	37	14
Lemassena, Lillian. (See Lemassena, Theodore F., assignor.)						
Lemassena, Theodore F., assignor to L. Lemassena, Newark, N. J. Polishing and grinding wheel	341,925	May 18	1314	351	35	769
Lemen, Lewis E., Denver, Colo. Nut-lock	350,143	Oct. 5	60	20	37	15
Lemman, John, Wakefield, Mass. Reversible car-seat	334,957	Jan. 26	2032	543	34	397
Lemos, Leon, San Francisco, Cal. Necktie-fastener and reversible scarf-band holder	333,642	Jan. 5	189	51	34	37
Lemos, Leon, San Francisco, Cal. Spice and dredging box	348,752	Sept. 7	293	78	36	1102
Lemp, Hermann. (See Wightmann and Lemp.)						
Lemp, Hermann, and M. J. Wightman, Hartford, Conn., assignors to Schuyler Electric Light Company. Cut-out for incandescent lamps	352,621	Nov. 16	1248	337	37	703
Lemp, Hermann, and M. J. Wightman, Hartford, Conn., assignors to Schuyler Electric Light Company. Thermostatic cut-out for incandescent lamps	352,622	Nov. 16	1249	338	37	706
Lempert Leon H., Rochester, N. Y. Door-check	354,559	Dec. 21	1325	352	37	1261
Lenaerts, Leon, Brussels, Belgium. Operating the stop-cocks of gas-meters	349,109	Sept. 14	793	201	36	1196
Lenaerts, Leon, and H. L'Olivier, Brussels, Belgium. Gas electric advertiser-cock	341,926	May 18	1315	352	35	769
Lenan, Gustavus, assignor to S. E. Fisher & Co., Attleborough, Mass. Bracelet	345,310	July 13	710	179	36	134
Lenan, Louis, North Attleborough, assignor to E. Whitney & Co., Attleborough Falls, Mass. Bracelet	349,603	Sept. 28	1749	451	36	1395
Lencauchez, Alexandre, Paris, France. Feeding locomotives with hot water	340,222	Apr. 20	1616	409, 410	35	301
Lencke, Henry, Reading, Pa. Furnace-grate	353,689	Dec. 7	50	13	37	1016
Lenhart, John, Fremont, Iowa. Plow	349,506	Sept. 21	1333	345	36	1309
Lenk, Carl P. (See Derham, Samuel G., assignor.)						
Lennon, William F., New York, N. Y. Sash-balance	346,663	Aug. 3	270	74	36	513
Lennox, Andrew J., and J. Krepp, Allegheny, Pa. Furnace	335,367	Feb. 2	395	101, 102	34	512
Lennox, David. (See Merrell and Lennox.)						
Lennox, John T., *et al.* (See Cooke, William, assignor.)						
Lenoir, Etienne J. J., Paris, France. Gas-engine	345,596	July 13	1138	290, 291	36	210
Lenoir, Jean J. E., Paris, France. Gas-engine	335,462	Feb. 2	521	136	34	535
Lenox, Edwin S., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Wire-rod-rolling mill	351,836	Nov. 2	145	40, 41	37	485
Lenox, Edwin S., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Wire-rod-rolling mill	351,837	Nov. 2	148	41, 42	37	486
Lenox, Edwin S., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Overfeed receiver for wire-rod-rolling mills	351,838	Nov. 2	150	42	37	486
Lenox, Edwin S., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Apparatus for coiling wire rods	351,839	Nov. 2	153	42, 43	37	487
Lenox, Edwin S., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Wire-rod-rolling mill	351,840	Nov. 2	155	43	37	487
Lenox, Edwin S., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Rowing-mill for making wire rods	351,841	Nov. 2	158	43, 44	37	488
Lent, Addison, assignor of one-half to L. G. Davis, Sleepy Eye, Minn. Grain-separator	336,246	Feb. 16	1681	438	34	751
Lentz, John G., assignor of one-half to L. Helmer, Colorado Springs, Colo. Riding-saddle	353,454	Nov. 30	2424	647	37	944
Leonard, Charles H., and C. G. Gray, Grand Rapids, Mich.; said Gray assignor to said Leonard. Refrigerator-shelf	335,136	Feb. 2	52	11	34	450
Leonard, Charles L. (See Jewett, Frederic A., assignor.)						
Leonard, Charles N., assignor of one-half to C. Bradford, Indianapolis, Ind. Straw-stacker	334,402	Jan. 12	1288	347, 348	34	216
Leonard, George H., Landisburg, Pa. Hat	340,793	Apr. 27	2421	637	35	453
Leonard, Henry W., Syracuse, and J. Stevens, Port Byron, assignors to Syracuse Fibre Ware Company, Syracuse, N. Y. Machine for trimming the ends of paper vessels	335,078	Jan. 26	2205	586	34	428
Leonard, Henry W., Syracuse, and J. Stevens, Port Byron, assignors to Syracuse Fibre Ware Company, Syracuse, N. Y. Machine for bending pail-bottoms	335,079	Jan. 26	2206	586, 587	34	428
Leonard, John G., Plymouth, Ind. Cord-holder for grain-binders	339,994	Apr. 13	1288	321, 322	35	236
Leonardson, John M., Ludington, Mich. Insulator for electric wires	347,943	Aug. 24	2089	554	36	875
Leonardt, Frederick. (See Tickle and Leonardt.)						
Leonhard, Emil A., Dayton, Ohio. Quarter-boot for horses	339,995	Apr. 13	1290	322	35	237
Leonhardt & Co., A. (See Bernhard, Fritz, assignor.)						
Leonhardt, William, Waverly, Md. Carriage-curtain fastener	337,843	Mar. 16	1293	335	34	1171
Leopold, Charles F., Philadelphia, Pa., assignor to Lloyd & Supplee Hardware Company. Meat-cutting machine	340,794	Apr. 27	2421	638	35	453
Leopold, Charles F., assignor to American Manufacturing Company, Philadelphia, Pa. Can-opener	333,764	Jan. 5	368	100	34	69
Leopold, Charles F., assignor to American Manufacturing Company, Philadelphia, Pa. Transom-lifter	345,238	July 6	605	153	36	109
Leopold, Charles F., assignor to American Manufacturing Company, Philadelphia, Pa. Meat-cutter	348,132	Aug. 24	2346	630	36	923
L'Epine, Maurice, assignor to Société de Laminage du Nickel, Paris, France. Forming compound plates of nickel and silver or platinum	340,223	Apr. 20	1620	.....	35	302
Leprévost-Bourgerel, Georges O. L., Paris, France. Pipe-coupling	347,461	Aug. 17	1383	367, 368	36	735
Lequire, Pinkney H., Greenwood, Ark. Plow	353,455	Nov. 30	2425	647	37	945
Lerch, Karl, and K. Seidl, Grätz, Austria-Hungary. Stove	346,756	Aug. 3	377	104	36	534
Lerchen, William, Montrose, Colo. Safety-stirrup	350,144	Oct. 5	70	20	37	16
Lermond, Delvin S., Delphi, Ind. Railway cattle-guard	355,183	Dec. 28	2220	586	37	1412
Leschziner, Siegfred, Jersey City, N. J. Extension-table, &c.	341,585	May 11	859	223, 229	35	674
Lesher, John T., Jordan, Pa. Fence	340,795	Apr. 27	2424	638	35	454
Leslie, Benjamin J., Butler, Ky. Baling-machine	344,486	June 29	2438	627	35	1478
Leslie, Charles L. (See Angell and Leslie.)						
Leslie, Edward, Orangeville, Ontario, Canada, assignor to Rotary Steam Snow Shovel Manufacturing Company, Paterson, N. J. Snow-plow	338,759	Mar. 30	2570	678	34	1415

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Leslie, Jacob W. (See Krater, Fredrick, assignor.)						
Leslie, James G., Oregon, Ill. Sash-lock	350,460	Oct. 5	494	138	37	95
Leslie, James G., Oregon, Ill. Wrench	350,935	Oct. 19	1173	312	37	828
Leslie, Joseph C., St. Albans, Vt. Toboggan	350,006	Sept. 28	2103	544	36	1464
Lester, Harry B., Waterbury, Conn., assignor to Blake and Johnson. Wire-nail machine	334,248	Jan. 12	1077	285 / 286	34	208
Lester, Milton, Jr., Suffield, Conn. Paper-holder	340,224	Apr. 20	1621	410	35	302
Lester, Milton, Jr., Suffield, Conn. Picture-frame hanger	341,024	May 4	67	18	35	518
Lester, Milton, Jr., Suffield, Conn. Sling-shot frame	344,840	July 6	63	15	36	12
Letchworth, Josiah, Buffalo, N. Y. Hame	349,891	Sept. 28	1864	481	36	1419
Letchworth, Josiah, Buffalo, N. Y. Hame attachment	349,892	Sept. 28	1865	481	36	1419
Letton, Raphael E. (See Wells, Clarence L., assignor.)						
Letton, Raphael E., Quincy, Ill. Upright-piano action	345,706	July 20	1303	337	36	248
Letz, Charles M., assignor of one-half to A. Zeese & Co., Chicago, Ill. Machine-table gage	336,814	Feb. 23	2459	645	34	899
Letzing, Christian J., Boston, Mass. Lock	341,025	May 4	68	19	35	518
Leuchsenring, Herman H. (See Randall, Alfred H., assignor.)						
Leuenberger, John, Camden, Ohio. Washer or gasket cutter	352,139	Nov. 9	613	162	37	580
Levalley, Christopher W., St. Paul, Minn. Seeder	338,987	Mar. 30	2886	764	34	1472
Levalley, Nelly P., Milwaukee, Wis. Drive-chain	345,707	July 20	1305	338	36	248
Levan, Thaddeus P., Ness City, Kans. Windmill	338,532	Mar. 23	2233	586	34	1351
Levanseler, Frank E., St. Cloud, Minn. Step-ladder chair	353,313	Nov. 30	2220	594	37	906
Levanseler, Frank E., St. Cloud, Minn. Step-ladder chair	353,316	Nov. 30	2221	594	37	906
Levanseler, Frank E., St. Cloud, Minn. Shoe-blacking stand and stool combined	353,317	Nov. 30	2222	595	37	906
Levasseur, Jules C., Milianah, Algeria. Watch-regulator	355,093	Dec. 28	2096	550	37	1417
Leve, Gustave, New York, N. Y., assignor, by mesne assignments, to A. B. Harris, Springfield, Mass. Sleeping-car. (Reissue)	10,703	Mar. 30	3091	817	34	1506
Leve, Gustave, assignor to F. S. M. Blum, New York, N. Y. Chair-fitting for drawing-room cars	347,758	Aug. 17	1810	482	36	815
Levenguth, John, Bloomington, assignor of one-half to F. Haitz, Towanda, Ill. Cabinet for exhibiting wares	346,295	July 27	2126	547	36	408
Levering, Franklin W., Baltimore, Md. Support for shaving-mirrors	340,968	Apr. 27	2052	699	35	494
Levey, Edgar J., New York, N. Y. Playing-card	339,066	Mar. 30	3007	795	34	1492
Levi, Louis, *et al.* (See Boehm, Alexander, assignor.)						
Levi, Louis, New York, N. Y. Cigar-box	339,792	Apr. 13	1013	250	35	185
Levi, William T., Charleston, W. Va. Boiler-sweeper	343,765	June 15	1462	366	35	1285
Levier, David M., Millerstown, Pa. Pipe-coupling	354,560	Dec. 21	1326	352	37	1262
Levinson, John, San Francisco, Cal. Embroidery-frame	335,762	Feb. 9	956	253	34	618
Levis, O. D. (See Rogers, Charles, assignor.)						
Levison, Chancellor G., assignor to T. B. Mills, Brooklyn, N. Y. Fly-book	337,593	Mar. 9	973	249	34	1108
Levison, Tinne. (See Morgenroth and Levison.)						
Levison, W. Goold, Brooklyn, N. Y. Electric lamp	335,368	Feb. 2	397	102	34	513
Levy, Bernard, New York, N. Y. Combined cape and jacket	336,124	Feb. 16	1471	388	34	717
Levy, Bernard S., *et al.* (See Guastavino, Rafael, assignor.)						
Levy Bros. *et al.* (See Borgfeldt, Nicholas H., assignor.)						
Levy Bros. *et al.* (See Borgfeldt and Schutz, assignors.)						
Levy, Isaac, Chicago, Ill. Folding bed	339,439	Apr. 6	466	113	35	86
Levy, James W., Clinton, Mo. Fly-trap	353,076	Nov. 23	1877	507	37	832
Levy, Julius, Cincinnati, Ohio. Coffee-roaster	344,388	June 29	2309	595	35	1455
Levy, Max, New Albany, Miss. Lifting-jack	344,841	July 6	64	15	36	12
Lewin, George W., assignor of one-fourth to C. P. Haskins, Fall River, Mass. Combined window-spring and weather-strip	336,575	Feb. 23	2129	558	34	838
Lewis, Alfred. (See Mobbs and Lewis.)						
Lewis, Alfred D., and C. S. Irish, Jordan, N. Y. Measuring-can	348,564	Sept. 7	42	12	36	1055
Lewis, Alfred N., *et al.* (See Murray, Peter, Jr., assignor.)						
Lewis, Arthur W., Bradford, Pa. Manufacture of pipe	351,987	Nov. 2	379	103	37	529
Lewis, Augustus S. (See Harrison, Huntress, and Lewis.)						
Lewis, Charles P., Sweet Springs, W. Va. Knockdown crate	343,588	June 15	1202	303	35	1239
Lewis, Elliott W., Bridgeport, Conn. Oil-can fitting	341,337	May 4	514	141	35	598
Lewis, Everett C., assignor of one-half to S. W. Wardwell, Jr., Woonsocket, R. I. Shaft-reversing mechanism	343,465	June 8	1034	257	35	1201
Lewis & Fowler Manufacturing Company. (See Conklin, Joseph I., Jr., assignor.)						
Lewis, Francis S. (See Lewis, Miles K. and F. S.)						
Lewis, George T. (See Clerc, Frank L., assignor.)						
Lewis, George T., Philadelphia, Pa. Reducing refractory silver and gold bearing ores	343,589	June 15	1204	.....	35	1239
Lewis, George T., Philadelphia, Pa. Manufacture of white pigments	346,114	July 27	1866	482	36	358
Lewis, George W., *et al.* (See Davis, Ellery C., assignor.)						
Lewis, Henry, New Liberty, Ill. Fire-escape	337,594	Mar. 9	975	250	34	1108
Lewis, Henry F., *et al.* (See Elliott, Page, and Lewis.)						
Lewis, James H., Detroit, Mich. Potato-digger	337,169	Mar. 2	385	100	34	997
Lewis, John C., and W. H. Rainey, Decatur, Tex. Gate	346,483	Aug. 3	44	11	36	468
Lewis, John G. (See Adams and Lewis.)						
Lewis, Joseph, South Evanston, Ill. Pneumatic grain-elevator	351,782	Nov. 2	77	21	37	472
Lewis, Joseph, South Evanston, Ill. Pneumatic apparatus for transferring grain	351,783	Nov. 2	78	21, 22	37	473
Lewis, Leonidas H., and P. M. Guerrant, Danville, Va. Adding-machine	353,318	Nov. 30	2223	595	37	906
Lewis, Leroy S., East Hartford, assignor of one-half to G. S. Miller, Hartford, Conn. Fire-extinguisher	345,908	July 20	1591	410	36	299
Lewis, Maris E., and C. A. Dodge, Orange City, Iowa. Rail-joint	354,426	Dec. 14	1122	301	37	1219
Lewis, Miles K. and F. S., Hastings, Nebr. Automatic grain-weigher	344,663	June 29	2675	694 / 695	35	1524
Lewis, Miles K., Hastings, and A. B. Starky, Minden, Nebr. Well-boring machine	344,389	June 29	2311	595	35	1455
Lewis, Paulinus A., Galveston, Tex. Blind-slat adjuster	341,338	May 4	514	142	35	598
Lewis, Richard, Newport, R. I. Machine for washing flower-pots	344,842	July 6	65	16	36	13
Lewis, Richard G., Chillicothe, Ohio. Button-attaching device	349,022	May 18	1442	386	35	793
Lewis, Russell H., assignor to R. S. Cutting, Providence, R. I. Button	344,743	June 29	2781	720	35	1542
Lewis, Russell H., assignor to R. S. Cutting, Providence, R. I. Lever-button	354,068	Dec. 7	603	166	37	1116
Lewis, Samuel T., and J. H. Babb, Midway, Tex. Corn and cotton sweep	349,725	Sept. 28	1643	424	36	1375
Lewis, Thomas W., *et al.* (See Rodebaver, Oscar F., assignor.)						
Lewis, W. T. (See Tracy, Patrick J., assignor.)						
Lewis, Wilfred. (See Bancroft and Lewis.)						
Lewis, Wilfred, assignor to W. Sellers & Company, (incorporated,) Philadelphia, Pa. Machinery for transmitting and arresting motion	352,623	Nov. 16	1251	338	37	706
Lewis, William, Dawn, Mo. Planter	350,686	Oct. 12	836	225	37	159

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lewis, William H. (See Anthony and Lewis.)						
Lewis, William H. (See Blackwell, Richard C., assignor.) (Reissue.)						
Lewis, William H., assignor to E. & H. T. Anthony & Co., New York, N. Y. Photographic camera	342,212	May 18	1691	450	35	839
Lewis, William H., assignor to E. & H. T. Anthony & Co., New York, N. Y. Photo-developing box	353,493	Nov. 30	2476	661	37	954
Lewis, William H., and E. B. Barker, assignors to E. & H. T. Anthony & Co., New York, N. Y. Stand for photographic cameras	336,815	Feb. 23	2461	646	34	900
Lewis, William H., and E. B. Barker, assignors to E. & H. T. Anthony & Co., New York, N. Y. Case for photographic sensitized paper	337,963	Mar. 16	1459	378	34	1201
Lewis, William H., and E. B. Barker, assignors to E. & H. T. Anthony & Co., New York, N. Y. Photographic camera	342,211	May 18	1689	450	35	838
Lewis, William J., Pittsburg, Pa. Rolling-mill	351,608	Oct. 26	2190	566	37	419
Lewis, William L., Sweet Springs, W. Va. Sheep-protector	340,332	Apr. 20	1774	453	35	330
Lewis, William P., Oroville, Cal. Pneumatic dredging-machine	355,094	Dec. 28	2098	550, 551	37	1417
Lewis, William W., Cincinnati, Ohio. Balanced steam-valve	337,688	Mar. 9	1063	286	34	1127
Lewis, William W. D., Camden, N. J. Paper box	333,643	Jan. 5	190	51	34	37
Lewy, Henry, Montgomery, Ala. Door-spring	346,296	July 27	2128	548	36	408
Lewyn, Adolph, *et al.* (See Borgfeldt, Nicholas H., assignor.)						
Lewyn, Adolph, *et al.* (See Borgfeldt and Schutz, assignors.)						
Lexington Manufacturing Company. (See Gaynor, Thomas F., assignor.)						
Leyburn, Edward J., Lexington, Va. Bottle-washing implement	337,595	Mar. 9	976	250	34	1108
Leyburn, Edward J., and H. B. Laughlin, Lexington, Va. Combined hair-brush and comb	341,664	June 29	2676	695	35	1224
Leyden, Austin, Atlanta, Ga. Bag-fastener and tag-holder	353,456	Nov. 30	2426	647	37	945
Leydig, Jacob V., Greene, Iowa. Sheaf-carrier for harvesters	341,668	May 11	972	258	35	695
Leydorf, Henry C., Haskins, Ohio. Cultivator	337,596	Mar. 9	976	250	34	1108
Lhoest, Emile and J., Paris, France. Velocipede	352,698	Nov. 16	1356	366, 367	37	726
Lhoest, Jules. (See Lhoest, Emile and J.)						
Libbey, Edward D. (See Locke, Joseph, assignor.)						
Libbey, Edward D., Winchester, Mass. Glassware	337,170	Mar. 2	388	101	34	997
Libbey, Edward D., Winchester, Mass. Glassware	343,823	June 15	1522	384	35	1297
Libbey, Hosea W., Boston, Mass. Exercising-machine	335,597	Feb. 9	718	191	34	576
Libbey, Hosea W., Boston, Mass. Combined window screen and ventilator	338,278	Mar. 23	1888	496	34	1290
Libbey, Hosea W., Boston, Mass. Cartridge-shell	339,306	Apr. 6	276	69	35	52
Libbey, Hosea W., Boston, Mass. Hood attachment for bicycles	339,793	Apr. 13	1015	250	35	185
Libbey, Hosea W., Boston, Mass. Gun-wad	341,586	May 11	860	229	35	673
Libbey, Hosea W., Boston, Mass. Compound electric cable	342,523	May 25	2175	576	35	931
Libbey, Hosea W., Boston, Mass. Sectional cartridge-shell	347,051	Aug. 10	787	209	36	618
Libbey, Hosea W., Boston, Mass. Velocipede	351,873	Nov. 2	205	58	37	496
Libbey, Hosea W., Boston, Mass. Nail	354,154	Dec. 14	748	201	37	1149
Libbey, Hosea W., Boston, Mass. Twist-drill and auger-bit	354,155	Dec. 14	748	201	37	1149
Libbey, Hosea W., Boston, assignor of one-fourth to E. Ward, Linden, Mass. Roller-skate	346,664	Aug. 3	271	74	36	513
Libby, A. C. (See Evans, G. Frank, assignor.)						
Libby, Benjamin F., assignor to Norwalk Lock Company, South Norwalk, Conn. Knob attachment	339,440	Apr. 6	467	113	35	87
Libby, Robert H., Boston, Mass. Box-pile	342,447	May 25	2058	543	35	912
Liberty, Oliver, Woonsocket, R. I. Baker's oven	354,198	Dec. 14	814	216	37	1162
Lichtenwalner, Charles, Macungie, Pa. Brake for motors	346,556	Aug. 3	133	36	36	485
Lichtenberger, Homer. (See Owen and Lichtenberger.)						
Lidback, John A., assignor of one-half to J. J. Gerrish, Portland, Me. Railway-gate	345,239	July 6	606	153	36	110
Lidback, John A., assignor of one-half to J. J. Gerrish, Portland, Me. Railway-gate	349,597	Sept. 21	1449	373, 374	36	1332
Liddell, Walter J. F., Charlotte, N. C. Machine for molding pulleys	333,765	Jan. 5	368	100	34	69
Liddell, Walter J. F., Charlotte, N. C. Portable steam-boiler furnace	344,970	July 6	238	60	36	43
Liddell, Walter J. F., Charlotte, N. C. Saw-mill feed mechanism	347,000	Aug. 10	706	187	36	604
Liddle, William H., *et al.* (See Beebe, John S., assignor.)						
Lidke, Fred C., Washington, D. C. Hand-stamp	345,064	July 6	374	94	36	68
Lidren, Christopher, assignor to himself and R. Jackson, Lafayette, Ind. Grain-binder	342,699	May 25	2420	641, 642, 643	35	978
Lidren, Christopher, assignor to himself and R. Jackson, Lafayette, Ind. Harvester-reel	342,700	May 25	2425	643, 644	35	979
Lieb, Charles A., New York, N. Y. Book and pamphlet trimming machine	334,672	Jan. 19	1666	445	34	322
Lieb, Charles A., assignor to Sheridan Book-Binders Sewing Machine Company, New York, N. Y. Book-sewing machine	351,328	Oct. 19	1736	456, 457	37	329
Lieb, Charles A., and C. L. Heins, New York, N. Y., assignors to said Heins and J. H. Lee, Norwalk, Conn. Ironing-machine	340,225	Apr. 20	1622	410	35	302
Liebenroth, Von Auw & Co. (See Petermann, Jean, assignor.)						
Liebreich, Charles E. (See Hahlo, Liebreich, and Hanson.)						
Liedke, Edward L., Sandusky, Ohio. Cheese-cutter	338,533	Mar. 23	2234	586	34	1351
Liemke, Herman H., St. Louis, Mo. Railway-signal	346,484	Aug. 3	45	12	36	468
Lieuke, Herman H., St. Louis, Mo. Railway-signal	346,485	Aug. 3	46	12	36	469
Lifsey, John A., White House, Ga. Combined plow-stock and cultivator	337,069	Mar. 2	246	65, 66	34	971
Ligget, Benjamin, Tucson, Ariz. Ter. Thill-coupling	340,333	Apr. 20	1775	453	35	330
Ligget, Benjamin, Tucson, Ariz. Ter. Rain-water filter	342,616	May 25	2306	609	35	957
Light, Edward B., Denver, Col. Machine for working hides	343,247	June 8	689	171	35	1140
Light, Ezekiel. (See Funk, John B., assignor.)						
Light, Frederick, Jr. (See Kriebel, Hosea K., assignor.)						
Light, James P., *et al.* (See Richter, Peter J., assignor.)						
Light, John C. (See Moore, Stephen J., assignor.)						
Light, Peter, and J. Luscher, Frankfort, Ky. Flue-broom	348,469	Aug. 31	2836	762	36	1022
Lightfoot, John W., Keswick, Iowa. Gate	337,597	Mar. 9	977	250	34	1108
Ligon, William A., assignor to himself and W. O. Allen, Sonora, Ky. Carving implement	342,617	May 25	2307	610	35	957
Ligowsky Clay Pigeon Company. (See Teipel, Benjamin, assignor.)						
Likins, William H., Jackson, assignor of one-half to A. W. Atterbury, Detroit, Mich. Middlings-purifier	348,754	Sept. 7	295	79	36	1102
Likly, Henry, C. A. Carpenter, and F. B. Graves, Rochester, N. Y. Electrical apparatus for working valves	353,637	Nov. 30	2698	721	37	994
Lilienthal, Gustav, Melbourne, Australia. Manufacturing artificial stone	335,707	Feb. 9	870	.....	34	603
Lilley, Alfred, assignor of two-thirds to J. J. Mehle and C. Pardoe, Fremont, Ohio. Composition for blackboards	351,329	Oct. 19	1739	.....	37	330

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Lilley, Charles F., Troy, Pa. Invalid bed-rest	340,334	Apr. 20	1775	453 / 454	35	330
Lillibridge, Freeman, Cedar Rapids, Iowa. Saddle for bicycles	337,171	Mar. 2	388	101	34	997
Lillie, S. Morris, Philadelphia, Pa. Process of and apparatus for drying bone-black	335,137	Feb. 2	53	15	34	450
Lillie, S. Morris, Philadelphia, Pa. Utilizing the waste heat from bone-black-revivifying kilns	337,411	Mar. 9	717	186 / 187	34	1064
Lillie, S. Morris, Philadelphia, Pa. Utilizing the waste heat of furnaces	339,669	Apr. 13	839	207	35	155
Lillie, S. Morris, Philadelphia, Pa. Process of and apparatus for evaporating sugar solutions	341,669	May 11	973	258	35	695
Lillie, S. Morris, Philadelphia, Pa. Apparatus for drying bone-black in sugar-refineries	343,666	June 15	1302	327	35	1256
Lillie, S. Morris, Philadelphia, Pa. Apparatus for evaporating liquids	344,586	June 29	2573	666	35	1504
Lillie, S. Morris, Philadelphia, Pa. Bone-black drier	351,929	Nov. 2	290	80, 81	37	511
Lillgren, John N., Muscatine, Iowa. Screen-door	343,667	June 15	1306	328	35	1257
Lima Machine Works. (See Carnes, Ira P., assignor.)						
Lincoln, Bacon & Co., *et al.* (See Bisbee, Albert, assignor.)						
Lincoln, J. H. (See Lea, Samuel J., assignor.)						
Lincoln, Ward, Little Rock, Ill. Grain-spout for thrashing-machines	339,560	Apr. 6	661	161	35	119
Lind, Frederick, Jr., Paterson, N. J. Suspender attachment	343,715	June 15	1395	348	35	1272
Lindawer, Benjamin. (See Parelius, Christopher B., assignor.)						
Lindell, August, Jefferson, Iowa. Wagon-stake	343,960	June 15	1501	436	35	1332
Lindenberg, Herman, Jersey City, N. J. Hand-sled	353,262	Nov. 23	2143	574	37	886
Lindle, Joseph, Chicago, Ill. Refrigerator	354,916	Dec. 28	1845	488	37	1370
Lindley, Thomas E. (See Rigele, Michael M., assignor.)						
Lindgren, August, assignor to Moline Plow Company, Moline, Ill. Wheel-cultivator	333,766	Jan. 5	370	101	34	69
Lindgren, George A., La Porte, Ind. Compound for preventing window-frost	341,757	May 11	1089	.....	35	719
Lindholm, Peter T., Lindsborg, Kans. Adding-machine	343,770	June 15	1463	366	35	1285
Lindner, Carl A., Louisville, Ky. Reclining-chair couch	340,131	Apr. 20	1476	373	35	275
Lindner, Ferdinand, assignor to himself, E. Melchior, J. Clemens, and C. Finkensieper, Chicago, Ill. Meat-cutting machine	334,789	Jan. 26	1821	485 / 486	34	359
Lindner, Moritz, Meuselwitz, Saxony, Germany. Lubricator	338,067	Mar. 16	1625	423	34	1231
Lindquist, Andrew J., Bertrand, Nebr. Windmill	346,665	Aug. 3	272	74, 75	36	514
Lindsay, John P. (See West, Ella E., assignor.)						
Lindsay, William A., Wilmington, Del. Paper-making machine	340,335	Apr. 20	1777	454	35	330
Lindsey, Edwin F., Bristol, R. I. Chuck	347,491	Aug. 17	1422	378	36	743
Lindsey, Henry K. (See Card, George T., assignor.)						
Lindsey, John M., Crystal Springs, Ga. Fertilizer-distributer	348,023	Aug. 24	2197	585	36	894
Lindsey, William C., New London, Mo. Heating-drum	348,852	Sept. 7	416	113	36	1124
Lindsley, John D., Hiawatha, Kans. Piano-wagon	341,154	May 4	251	74	35	551
Lindsley, Milton F., West Hoboken, N. J. Explosive compound	333,872	Jan. 5	514	.....	34	96
Lindsley, Milton F., North Bergen, N. J. Making explosive compounds	341,155	May 4	253	.....	35	551
Lindsley, William E., Philadelphia, Pa. Water or flush tank for water-closets, &c	340,226	Apr. 20	1623	411	35	302
Lineburg, John N., *et al.*, trustees. (See Kneedler, Lewis, assignor.)						
Lineff, Alexander L., and W. Jones, London, England. Field cooking apparatus for military and other purposes	352,651	Nov. 16	1287	347	37	713
Lines, Daniel, and C. T. Long, Milano, Tex. Churn	343,771	June 15	1465	367	35	1286
Linham, Robert E. (See Hopkins and Linham.)						
Linindell, Charles C., Fort Edward, assignor of one-fourth to P. H. Lathrop, Albany, and B. Mandeville, Valatie, N. Y. Combined cock and coupling for barrels, &c	341,389	May 4	515	142	35	598
Link, J. Joseph, Chicago, Ill. Straw-carrier	349,507	Sept. 21	1333	346	36	1310
Link, Willis E., Radcliffe, Iowa. Detachable coupling	354,256	Jan. 12	1099	294	34	211
Linley, Charles M., and J. Biggs, Southwark, county of Surrey, assignors of one-half to G. G. Tandy, Cedars Road, Clapham, England. Speed and power gearing for velocipedes	351,873	Nov. 2	206	58	37	497
Linley, Charles M., and J. Biggs, Southwark, assignors of one-half to G. G. Tandy, Cedars Road, Clapham, county of Surrey, England. Velocipede	354,642	Dec. 21	1459	386 / 387	37	1285
Linnell, Jonathan E., Norwich, Conn. Bottle-cabinet	346,166	July 27	1946	502	36	373
Linnenbrügge, Adolph. (See Nagel, Kaemp, and Linnenbrügge.)						
Linnroth, Joseph, Galesburg, Ill. Car-brake	339,670	Apr. 13	843	207	35	156
Linscott, George W., trustee. (See Field, Millard F., assignor.)						
Linscott, John M., Lewiston, Me. Piston water-meter	337,845	Mar. 16	1294	336	34	1171
Linsley, Edward B. (See Willits and Linsley.)						
Linsley, Joel, Burlington, Vt. Refrigerator	345,240	July 6	607	154	36	110
Linson, James L. T., Johnson County, Mo. Vehicle-brake	339,794	Apr. 13	1015	251	35	185
Linthicum, Louisa B., Helena, Ark. Attachment for bake-ovens	338,279	Mar. 23	1889	496	34	1290
Linton, August W. (See Swanson and Linton.)						
Linville, Jacob H., Philadelphia, Pa., assignor to International Printing Telegraph Company, Camden, N. J. Printing-telegraph	350,983	Oct. 19	1251	333 / 334 / 335	37	242
Linville, Jacob H., Philadelphia, Pa., assignor to International Printing Telegraph Company, Camden, N. J. Printing-telegraph	350,984	Oct. 19	1265	335 / 336	37	244
Lipe, George H., China Grove, N. C. Car-coupling	340,447	Apr. 20	1924	495	35	358
Lippincott, Jason E., Cincinnati, Ohio. Telegraph-pole	349,649	Sept. 14	706	180	36	1180
Lippincott, John. (See Publ and Mertes, assignors.)						
Lippincott, Thomas W., Rockford, Ill. Siphon oil-can	346,666	Aug. 3	273	75	36	514
Lippincott, Thomas W., Rockford, Ill. Oil-can	349,598	Sept. 21	1451	374	36	1333
Lippitt, Peleg W., Providence, R. I. Furnace-grate	345,792	July 20	1430	370	36	270
Lippy, David, Mansfield, Ohio. Car-coupling	349,726	Sept. 28	1644	424	36	1375
Lips, Godfrey R., Louisville, Ky. Gig-saddle	345,853	July 20	1516	393	36	284
Lister, John T., Cleveland, Ohio. Apparatus for making carbons	347,247	Aug. 10	1060	284 / 285	36	668
Lister, John T., assignor to J. C. O'Neil and C. A. Dainz, Cleveland, Ohio. Telephone attachment	350,203	Oct. 5	150	45	37	32
Lister, Oliver B., and H. Batty, Dudley Hill, near Bradford, county of York, England. Apparatus for actuating dabbing-brushes for combing-machines	342,701	May 25	2427	644	35	979
Liston, Albert L., Pleasant Plains, Ill. Harness-saddle	353,690	Dec. 7	51	14	37	1016
Liston, John, Glasgow, county of Lanark, Scotland. Cork-cutting machine	345,909	July 20	1592	410 / 411	36	299
Litch, Lemuel W. (See Riedell and Litch.)						
Litchfield, Charles T., Silver Cliff, Colo. Ore concentrator and separator	351,957	Oct. 19	1378	362	37	264
Litchfield, Henry T. (See Cheever, John O., assignor.)						
Litchfield, Isaac W., Warwick, assignor of one-half to P. K. Dumaresq, New York, N. Y. Paint-can	340,721	Apr. 27	2325	612	35	434
Litchfield, William H. (See Rakow, Louis, assignor.)						
Litten, Joseph O. (See Newell and Litten.)						
Litterer, Fred, and L. McKinniss, Decatur, Ill. Check-rower for corn-planters	348,470	Aug. 31	2837	763	36	1022

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Little, Arthur D., Providence, R. I., assignor to J. T. Wheelwright, Boston, Mass. Lining for digesters	351,330	Oct. 19	1739	.....	37	330
Little & Co., R. C. (See Champion, John P., assignor.)						
Little, Edgar, Philadelphia, Pa. Machine for rolling tubes	343,325	June 8	814	205	35	1161
Little, Franklin P., and W. H. McDonald, Albany, assignors to J. A. Powers, Troy, N. Y. Cut-out instrument for incandescent lamps	340,448	Apr. 20	1926	495	35	358
Little, Franklin P., and W. H. McDonald, Albany, assignors to J. A. Powers, Troy, N. Y. Rheostat	340,449	Apr. 20	1928	495	35	359
Little Giant Power Converter Company. (See Allen, William P., assignor.)						
Little, James L., Jr. (See Gardner, Ernest M., assignor.)						
Little, James R., assignor, by mesne assignments, to Quincy Metal Wheel Company, Quincy, Ill. Metallic wheel	334,249	Jan. 12	1083	287	34	209
Little, James R., assignor, by mesne assignments, to Quincy Metal Wheel Company, Quincy, Ill. Machine for manufacturing metal wheels	334,250	Jan. 12	1084	287, 288	34	209
Little, James R., assignor, by mesne assignments, to Quincy Metal Wheel Company, Quincy, Ill. Mechanism for manufacturing metal wheels	334,251	Jan. 12	1088	289, 290, 291	34	210
Little, James R., assignor, by mesne assignments, to Quincy Metal Wheel Company, Quincy, Ill. Metallic wheel	334,252	Jan. 12	1092	291	34	210
Little, James R., assignor to Quincy Metal Wheel Company, Quincy, Ill. Making metal wheels	334,253	Jan. 12	1093	292	34	210
Little, James R., assignor to Quincy Metal Wheel Company, Quincy, Ill. Mechanism for the manufacture of metal wheels	334,254	Jan. 12	1095	293	34	211
Little, James R., assignor to Quincy Metal Wheel Company, Quincy, Ill. Machine for upsetting tires	334,255	Jan. 12	1096	293, 294	34	211
Little, James R., assignor to Quincy Metal Wheel Company, Quincy, Ill. Friction-clutch	335,463	Feb. 2	522	137	34	535
Little, James R., assignor to Quincy Metal Wheel Company, Quincy, Ill. Mechanism for the manufacture of metal wheels	337,172	Mar. 2	391	101	34	998
Little, James R., assignor to Quincy Metal Wheel Company, Quincy, Ill. Manufacture of metal wheels	338,988	Mar. 30	2888	765	34	1472
Little, John E., Princeton, Ind. Gate	350,374	Oct. 5	363	104	37	73
Little, John R., and C. T. Stoddard, West Stewartstown, assignors of one-third to J. I. Parsons, Colebrook, N. H. Saw	354,325	Dec. 14	998	265	37	1195
Little, Joseph. (See Leech and Little.)						
Little, Joseph B., Winnipeg, Manitoba, Canada. Safety water-gage	345,156	July 6	496	127	36	90
Little, Robert L., *et al.* (See Morrell, Augustine, assignor.)						
Little, Thomas, Galt, Ontario, Canada. Desk	343,041	June 1	370	96	35	1074
Little, William B., New York, N. Y. Car-coupling	342,967	June 1	270	70	35	1055
Littlefield, Charles W., assignor of three-fourths to F. P. Todd and J. L. Fowler. Amesbury, Mass. Shutter-operator	346,855	Aug. 3	504	138	36	558
Littlefield, Richmond H. (See Marden and Littlefield.)						
Littlefield, William E., *et al.* (See Baird, George D., assignor.)						
Littlejohn, Charles F. (See Nettleton and Littlejohn.)						
Littlejohn, Charles F., assignor to W. A. Nettleton, Bridgeport, Conn. Folder for covering stays	345,793	July 20	1431	370	36	270
Littlejohn, Charles M., Pacolet, S. C. Invalid-bedstead	351,641	Oct. 26	2239	57, 580	37	428
Littlejohn, Fitz Hugh, Broadalbin, N. Y. Lap-robe holder for vehicles	347,944	Aug. 24	2090	555	36	875
Littleton, Charles M., assignor of one-half to H. W. Quinn, Shirley, Ill. Car-coupling	337,598	Mar. 9	978	251	34	1109
Litzelle, John C., Rockford, Ill. Tile-roof	348,920	Sept. 7	520	137	36	1192
Livelsberger, Albert M., Fort Wayne, Ind. Draft-equalizer	355,184	Dec. 28	2221	586	37	1442
Lively, Alexander, Sardis, Ga. Fertilizer-distributer	338,088	Mar. 16	1626	423	34	1232
Liver, Jacob. (See Jeffrey and Liver.)						
Livesey, Joseph H. (See Eaton, Prince, and Livesey.)						
Livezey, John, Jr., *et al.* (See McAneny and Rieley, assignors.)						
Livingston, Alexander B. (See Overing and Livingston.)						
Livingston, Charles L., Aurora, Ill. Door-bell	349,437	Sept. 21	1233	390	36	1289
Livingston, John S., and A. McBride, Orange Springs, Fla. Cotton-gin	334,875	Jan. 26	1930	514	34	379
Livingston, Reason C., Spring Valley, Minn. Grain-measuring apparatus and sack-holder	335,940	Feb. 9	1208	321	34	664
Livingston, William T., Passaic, N. J. Machine for coating textile materials, &c., with coloring or waterproofing compositions	341,758	May 11	1090	290	35	719
Livingstone, Frederick D., assignor of one-half to A. Golt, Springfield, Mass. Sash-fastener	338,534	Mar. 23	2235	587	34	1351
Lizius, James B. (See Daggett, Robert P., assignor.)						
Lloyd, Alvin, Rich Hill, Mo. Combined storm and screen door	342,832	June 1	83	20	35	1022
Lloyd, Andrew J. (See Closs, Peter, assignor.)						
Lloyd, Clinton. (See Chapman, Thomas L., assignor.)						
Lloyd, Cyrus W., assignor to W. A. Warrington & Co., Salisbury, Md. Fruit-crate	335,369	Feb. 2	400	102	34	513
Lloyd, Edwin L., assignor of one-half to C. C. Joly, Philadelphia, Pa. Bottle-stopper	348,910	July 20	1595	411	36	300
Lloyd, George E., Chicago, Ill. Machine for shaving stereotype-plates	333,529	Jan. 5	45	13	34	11
Lloyd, George E., Chicago, Ill. Machine for fitting stereotype-plates and their backing	333,530	Jan. 5	46	13	34	11
Lloyd, George E., Chicago, Ill. Paper folding, pasting, and trimming machine	353,638	Nov. 30	2703	721, 722, 723, 724	37	995
Lloyd, Harlan P. (See Sagendorph, L. Lewis, assignor.)						
Lloyd, Harlan P. (See Sagendorph, Longley L., assignor.)						
Lloyd, Samuel, Washington, D. C. Awning	348,024	Aug. 24	2198	586, 587	36	895
Lloyd & Supplee Hardware Company. (See Leopold, Charles F., assignor.)						
Lloyd, Walter, Chicago, Ill. Lock-up for printers' forms	352,248	Nov. 9	766	204	37	606
Lloyd, Walter J., and W. Priest, Harborne, county of Stafford, England. Tricycle	346,308	July 27	2007	517	36	384
Lloyd, Walter J., and W. Priest, Harborne, county of Stafford, England. Tricycle	353,793	Dec. 7	195	53	37	1042
Lloyd, William A., Macksburg, Ohio. Reaming-tool for use in sinking bored-well casings	344,744	June 29	2784	720	35	1542
Lloyd, William D., Johnson City, Tex. Cultivator	341,106	May 4	180	56	35	538
Lobeck, Paul, Lobtau, near Dresden, Saxony, Germany. Preparing cocoa	341,759	May 11	1092	.....	35	719
Lochbaum, Norbert, Berlin, Germany, assignor to C. Kauffmann and W. Strauss, New York, N. Y. Music-case	353,794	Dec. 7	196	53	37	1043
Locher, James, Decatur, Ill. Hay-stacker	349,804	Sept. 28	1750	451	36	1395
Locher, James, Decatur, Ill. Car-coupling	349,805	Sept. 28	1751	451, 452	36	1395
Locher, James, Decatur, Ill. Corn-planter	352,418	Nov. 9	982	264, 265	37	649
Lochmann, Oskar P., Gohlis, Leipsic, Saxony, Germany. Mechanical musical instrument	350,541	Oct. 12	615	170, 171	37	119

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Lochmann, Paul, Leipsic, Goblis, Saxony, Germany. Air-engine	333,644	Jan. 5	191	51, 52	34	38
Lochmann, Paul, Goblis, near Leipsic, Saxony, Germany. Musical box	3 6,757	Aug. 3	378	104	36	535
Lochner, John, New York, N. Y. Combined table and clothes-rack	338,089	Mar. 16	1627	423	34	1232
Locke, Charles B., Apponaug, R. I. Beer-faucet	352,140	Nov. 9	614	162	37	580
Locke, Joseph, Medford, assignor to E. D. Libbey, Winchester, Mass. Etching on glass and other material	343,961	June 15	1702	436	35	1332
Locke, Joseph, Medford, assignor to E. D. Libbey, Boston, Mass. Ornamental glassware	345,436	July 13	894	222	36	166
Locke, Joseph, Glenwood, (Medford,) and S. O. Richardson, Jr., Wakefield, Mass. Apparatus for making and burning gaseous fuel	349,228	Sept. 14	953	243	36	1226
Locke, Nathaniel C., Salem, Mass. Diaphragm for pressure regulators	335,033	Jan. 26	2143	570	34	416
Locke, Nathaniel C., Salem, Mass. Damper-regulator	335,080	Jan. 26	2208	587	34	428
Locke, Sylvanus D., Hoosick Falls, N. Y. Harvester	339,561	Apr. 6	662	161, 162	35	119
Locke, Sylvanus D., Hoosick Falls, N. Y. Harvester	339,562	Apr. 6	667	162	35	120
Locke, Sylvanus D., Hoosick Falls, N. Y. Harvester-seat	339,563	Apr. 6	668	162, 163	35	120
Locke, Sylvanus D., Hoosick Falls, N. Y. Harvester-reel	339,564	Apr. 6	670	163, 164	35	121
Locke, Sylvanus D., Hoosick Falls, N. Y. Car-coupling	351,385	Oct. 26	1828	480	37	333
Locke, Sylvanus D., Hoosick Falls, N. Y. Railway cross-tie	353,691	Dec. 7	52	14	37	1016
Locke, Sylvanus D., Hoosick Falls, N. Y. Wire and pipe supporting and snow-removing apparatus	355,185	Dec. 28	2222	586	37	1443
Lockhart, Alexander W., Stockton, Cal. Feed-regulator for thrashing-machines	334,024	Jan. 12	730	199	34	144
Lockhart, Frederick T., *et al.* (See Close, Philipp C., assignor.)						
Lockhart, G. D. (See Horton, George T., assignor.)						
Lockwood, Baldwin & Co. (See Baldwin, Willis assignor.)						
Lockwood, Charles A., Haverstraw, N. Y. Iron fence	342,369	May 25	1954	516	35	893
Lockwood, Charles A., Far Rockaway, assignor of one-third to G. W. Lockwood, New York, N. Y. Self-regulating boiler-feeder	351,451	Oct. 26	1949	507, 508	37	373
Lockwood, Edward M. (See Frisbie and Lockwood.)						
Lockwood, George E., Philadelphia, Pa. assignor to Standard Heat and Light Company. Governor for gas	351,642	Oct. 26	2241	580	37	428
Lockwood, George W. (See Lockwood, Charles A., assignor.)						
Lockwood, Henry S., assignor to Lockwood Manufacturing Company, South Norwalk, Conn. Sliding-door lock	346,928	Aug. 10	618	166	36	587
Lockwood, James Y. (See Jacobs and Lockwood.)						
Lockwood, Juliet P. (See Lockwood, Samuel T., assignor.)						
Lockwood Manufacturing Company. (See Lockwood, Henry S., assignor.)						
Lockwood, Samuel M., New York, N. Y. Inclined-wheel earth-excavator	335,229	Feb. 2	210	54	34	477
Lockwood, Samuel M., New York, N. Y. Inclined-wheel excavator	335,230	Feb. 2	211	54	34	477
Lockwood, Samuel T., assignor to J. P. Lockwood, Chicago, Ill. Bag-turning machine	350,204	Oct. 5	152	45, 46	37	32
Lockwood, Samuel T., assignor to D. J. Whiting, Chicago, Ill. Machine for turning bags	350,461	Oct. 5	495	139	37	95
Lockwood, Thomas D., Malden, Mass. Automatic telephone-exchange system	335,708	Feb. 9	871	230	34	603
Lockwood, William C., Hoboken, N. J., assignor of one-half to S. M. Stilwell, New York, N. Y. Telephone	346,377	July 27	2239	574	36	429
Loeb, H. (See Slack, Alfred M., assignor.)						
Loeb, Jacob, *et al.* (See Güttinger, Carl, assignor.)						
Loebe, George F., Philadelphia, Pa. Portable switch for tramways	350,687	Oct. 12	837	225	37	159
Loeffelholz & Co. (See Bowen, Philip A., assignor.)						
Loeffelholz & Co. (See Kersten, Marzell, assignor.)						
Loeffler, Otto (See Müller, Ludwig, assignor.)						
Loeffler, William, Sheboygan, Wis. Lubricator	354,156	Dec. 14	749	201	37	1150
Loehner, August, St. Louis, Mo. Railway-track drill	336,487	Feb. 16	2008	526	34	811
Loeser, Henry, Boston, Mass. Die for cutting leather	346,929	Aug. 10	620	166	36	588
Loesner, Hans, New York, N. Y., and F. B. Persch, Philadelphia, Pa.; said Persch assignor to said Loesner. Stocking	340,132	Apr. 20	1477	373	35	276
Loewenstine, David C. (See Fox, James E., assignor.)						
Loewenthal, Joseph, Newark, N. J. Reversible coat	340,885	Apr. 27	2542	669	35	474
Loewenthal, Rudolph A., *et al.* (See Holt, Albert T., assignor.)						
Loewer, Henry, *et al.* (See Hatfield, Charles B., assignor.)						
Loftus, John, assignor of one-half to P. Kinnear, Albany, N. Y. Stuffing-box	346,378	July 27	2240	574	36	429
Loftus, John, assignor of one-half to P. Kinnear, Albany, N. Y. Injector	348,625	Aug. 24	2290	587	36	895
Logan, Alexander, North Sydney, Nova Scotia, Canada. Stump-extractor	339,565	Apr. 6	672	164	35	121
Logan, Jane, *et al.* (See McCarty, William F. M., assignor.)						
Logan, John, Waltham, Mass. Machine for filing metallic ribbons	337,689	Mar. 9	1085	281	34	1128
Logan, John, Waltham, Mass. Making watch-springs	337,690	Mar. 9	1088	281	34	1128
Logan, John, Waltham, Mass. Machine for polishing metal wire or ribbon	338,603	Mar. 23	2327	609	34	1366
Logan, John, Waltham, Mass. Machine for treating metal ribbon for watch-springs	342,917	June 1	202	52	35	1041
Logan, John B., Baltimore, Md. Umbrella	348,223	Aug. 31	2499	672	36	956
Logan, Leonard, Plymouth, Ind. Wire-fastener for fences	345,516	July 13	1002	254	36	186
Logan, Robert W., assignor to F. M. Simmonds and G. K. Schofield, Indianapolis, Ind. Rail for dash-boards	339,307	Apr. 6	276	69	35	52
Logan, Thomas H., Lowell, assignor of two-thirds to G. A. Brown, Chelmsford, L. T. Trull and J. E. Helme, Lowell, Mass. Spindle and support therefor	345,157	July 6	497	127	36	91
Logan, William B., assignor of one-half to G. W. Maschmeyer, Richmond, Ind. Blanket for animals	352,470	Nov. 9	1048	282	37	662
Logan, William B., assignor of one-half to G. W. Maschmeyer, Richmond, Ind. Bib or apron	352,471	Nov. 9	1048	283	37	662
Loggie, George W., Portland, Oreg. Transfer apparatus for saw-mills	342,918	June 1	203	53	35	1042
Lohmann, Albert C., Akron, Ohio. Paper box	349,165	Sept. 14	864	222	36	1210
Lohmann, Clemens, Cologne-on-the-Rhine, Prussia, Germany. Dyeing wool azodiphenyl blue	354,714	Dec. 21	1556	.....	37	1304
L'Olivier, Henri. (See Lenaerts and L'Olivier.)						
Lomax, George H., Somerville, Mass. Glass-blower's mold	351,784	Nov. 2	80	22	37	473
Lombard, Nathan C. (See Southack, C. Frank, assignor.)						
Lombard, Robert T., Racine, Wis. Horse-collar fastener	349,943	Sept. 28	1931	499	36	1431
Lombard, Walter E., Somerville, Mass. Proportional caliper	345,978	July 20	1686	436	36	316
Lonergan, Thomas. (See Hodges, George H., assignor.)						
Lonergan, William H. (See Beehler, Charles W., assignor.)						
Long, Alexander M., Philadelphia, Pa. Composition for the treatment of the surfaces of bricks	344,390	June 29	2312	.....	35	1455
Long & Allstatter Company. (See Allstatter, Robert, assignor.)						
Long, Alvin A. (See Long, George A. and A. A.)						
Long, Andrew L., and W. S. Barager, Dalton, N. Y. Sash-fastener	348,631	Sept. 7	138	39	36	1072

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Long, Charles R., *et al.* (See Sweney, Charles E., assignor.)						
Long, Charles S., Hinckley, Ill. Machine for pressing plastic material	354,604	Dec. 21	1402	371 / 372	37	1275
Long, Charles T. (See Lines and Long.)						
Long, George A., Northfield, Mass. Tool-holder for grinding	348,407	Aug. 31	2876	774	36	1029
Long, George A. and A. A., Northfield, Mass. Animal-trap	335,081	Jan. 26	2212	387 / 388	34	429
Long, George S., assignor to G. W. Williams, Hartford, Conn. Bicycle	337,774	Mar. 9	1193	310	34	1146
Long, James B., Rochester, N. Y. Combined water filter and cooler	354,795	Dec. 21	1671	442	37	1326
Long, John, Brighton, Iowa. Fifth-wheel anti-rattler	336,927	Mar. 2	62	16	34	937
Long, John M. W., and J. B. Fischer, Hamilton, Ohio. Manufacture of shovels	350,067	Sept. 28	2104	544	36	1464
Long, Joseph D. (See Kirker, Milton, assignor.)						
Long, Malcolm W., Hyde Park, Mass. Railway-signal	345,641	July 13	1208	313	36	223
Long, Malcolm W., Hyde Park, Mass. Electric railway-signal	345,642	July 13	1211	313	36	224
Long, Reginald, Summit, N. J. Skirt-ironing table	354,796	Dec. 21	1672	442	37	1326
Long, Richard, Iowa City, Iowa. Road-grading machine	352,198	Nov. 9	705	188 / 189	37	595
Long, T. Avery, Howard, Pa. Portable or traction engine	354,605	Dec. 21	1405	372	37	1275
Long, Thomas A., *et al.* (See Baker, John, assignor.)						
Long, William, assignor of two-thirds to T. Manwaring and H. Berndt, Covington, Ky. Drawer-pull	337,412	Mar. 9	721	187	34	1065
Long, William H., assignor of one-half to C. L. Nesmith, Washington, Ill. Two-wheeled vehicle	343,134	June 1	523	133	35	1101
Longacre, J. A. S., *et al.* (See Peck, Franklin D., assignor.)						
Longbottom, Christopher, Bradford, county of York, England. Device for securing door-knobs to their spindles	335,824	Feb. 9	1040	275	34	634
Longenecker, John, Pikeville, Ohio. Cabinet	352,940	Nov. 9	767	205	37	606
Longman, Walter, Brooklyn, N. Y. Sealed cap and faucet	339,198	Apr. 6	119	33	35	24
Longsdon, Rufus C., St. Louis, Mo. Feeder for roller-mills	339,566	Apr. 6	673	164	35	121
Longshore, Alfred R., Hazleton, Pa. Window-frame and sash	348,526	Aug. 31	2920	785	36	1037
Longstreet, Aaron, *et al.* (See Coyle, Charles J., assignor.)						
Longview Kelly Plow Manufacturing Company. (See Kelly, George A., assignor.)						
Lonsdale, William and W. H., Grand Crossing, Ill. Curling-tongs	351,331	Oct. 19	1740	457	37	330
Lonsdale, William H. (See Lonsdale, William and W. H.)						
Look, Charles R. (See Davis and Look.)						
Looker, Robert S., Springfield, Ohio. Sewing-machine	349,438	Sept. 21	1234	320 / 321	36	1289
Looker, Robert S., Springfield, Ohio. Sewing-machine	349,439	Sept. 21	1238	321	36	1290
Looker, Robert S., Springfield, Ohio. Spool-box for sewing-machines	349,440	Sept. 21	1240	321	36	1290
Looker, Robert S., Springfield, Ohio. Adjustable oscillating needle-clamp for sewing-machines	349,441	Sept. 21	1241	321	36	1290
Loomer, Henry M., East Douglas, assignor to Douglas Axe Manufacturing Company, Boston, Mass. Dies for making ax-polls	348,921	Sept. 7	521	138	36	1143
Loomis, Benjamin T., Baltimore, Md. Filter	342,755	May 25	2504	667	35	994
Loomis, Burdett, Hartford, Conn. Apparatus for the manufacture of illuminating and heating gas	338,989	Mar. 30	2889	765 / 766	34	1472
Loomis, Burdett, Hartford, Conn. Manufacturing gas	338,990	Mar. 30	2892	766	34	1473
Loomis, Burdett, Hartford, Conn. Apparatus for manufacturing gas	338,991	Mar. 30	2895	766 / 767	34	1473
Loomis, Burdett, Hartford, Conn. Process of and apparatus for manufacturing gas	338,992	Mar. 30	2897	767 / 768	34	1474
Loomis, Francis D. (See Morgan and Becker, assignors.)						
Loomis, John F., and B. E. Wing, Shelby, Iowa. Apparatus for converting motion	352,878	Nov. 16	1589	429	37	771
Loomis, John S., Brooklyn, N. Y. Boiler-furnace	335,825	Feb. 9	1040	275	34	634
Loomis, Loira C., assignor of one-half to T. G. McClure, Doud's Station, Iowa. Neck-yoke	340,952	Apr. 27	2629	692	35	490
Loomis, Lyman U., McPherson, Kans. Wind-wheel gearing	336,651	Feb. 23	2240	584	34	857
Loomis, M. De Witt, Pittsburg, Pa. Cast wheel, pulley, &c	334,178	Jan. 12	960	260	34	185
Loomis, Mahlon, Terra Alta, W. Va. Electrical thermostat	338,090	Mar. 16	1628	424	34	1232
Loomis, Osborn P., and H. W. Cooley, Lynn, Mass. Regulator for dynamo-electric machines	337,775	Mar. 9	1194	310	34	1146
Loomis, Osborn P., and H. W. Cooley, Lynn, Mass. Regulator for dynamo-electric machines	337,776	Mar. 9	1196	311	34	1147
Loomis, Osborn P., and H. W. Cooley, Lynn, Mass. Electric motor	337,777	Mar. 9	1197	311	34	1147
Loomis, Osborn P., and H. W. Cooley, Lynn, Mass. Regulator for dynamo-electric machines	350,754	Oct. 12	918	247	37	174
Looney, John J., assignor to himself, W. T. Andrews, Hazel Green, Wis., and A. West, Galena, Ill. Pipe-wrench	343,668	June 15	1307	328	35	1257
Looney, William, Oxford, Ind. Automatic grain-measure	348,287	Aug. 31	2582	694	36	973
Loop, A. Irwin, assignor of one-half to W. H. Stetson and C. Loop, North East, Pa. Saw-mill set-works	338,684	Mar. 23	2448	646 / 647	34	1387
Loop, Charles, *et al.* (See Loop, A. Irwin, assignor.)						
Loos, August, *et al.* (See Jacobs, Armand M., assignor.)						
Loos, August, *et al.* (See Müller-Jacobs, A., assignor.)						
Loos, Edward J. J., Paris, France. Curing pork	352,094	Nov. 2	530	.....	37	558
Loper, Charles H., Hickory, N. C. Rotary lamp	346,758	Aug. 3	379	105	36	535
Lord, George W., assignor of one-half to H. E. Townsend, Boston, Mass. Acoustic telephone	346,594	Aug. 3	179	48	36	495
Lord, Henry S., assignor to R. E. Day, Hartford, Conn. Water-closet valve	336,523	Feb. 16	2052	539 / 540	34	819
Lord, Jerome D., and J. M. Cheevers, Dover, Mich. Potato-planter	347,275	Aug. 10	1102	295	36	676
Lord, Nathaniel W. (See Murphy and Lord.)						
Lord, Victor, Odessa, Del. Mechanism for preparing rock, &c., for fertilizers and cements	349,229	Sept. 14	954	243	36	1226
Lord, William W., assignor to S. Freeman & Sons, Racine, Wis. Broadcast seed-sower and fertilizer-distributer	351,088	Nov. 2	380	104	37	529
Lorden, Dennis J., Sandwich, assignor of one-half to J. J. Crowley, Boston, Mass. Machine for making glass globes, shades, &c	345,979	July 20	1687	436	36	316
Lorentz, Heinrich, Stettin, Prussia, Germany. Mechanical musical instrument	333,645	Jan. 5	192	52	34	38
Lorenz, Charles A., Rimerton, Pa. Churn	339,308	Apr. 6	278	69	35	52
Lorenz, Richard O. (See Henneberg and Lorenz.)						
Lorenz, Robert, New York, N. Y. Clamp for strings, &c	334,711	Jan. 19	1720	459	34	382
Lorenz, Wilhelm, *et al.* (See Nolte, August, assignor.)						
Lorenz, Wilhelm, *et al.* (See Schmalz, Arthur, assignor.)						
Lorenz, Wilhelm, Carlsruhe, Germany. Manufacture of compound projectiles	335,464	Feb. 2	523	137	34	535
Lorenz, Wilhelm, Carlsruhe, Baden, Germany. Compound projectile	338,849	Mar. 30	2691	709	34	1438
Lorenz, Wilhelm, Carlsruhe, Baden, Germany. Making cartridge-shells	346,759	Aug. 3	381	105	36	535

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lorenz, William A., Hartford, Conn., assignor to F. W. Leinbach and C. A. Wolle, Bethlehem, Pa. Paper-bag machine	333,646	Jan. 5	194	52, 53	34	38
Lorenz, William A., Hartford, Conn., assignor to F. W. Leinbach and C. A. Wolle, Bethlehem, Pa. Paper bag	342,754	May 25	2503	667	35	994
Lorenz, William A., Hartford, Conn., assignor to F. W. Leinbach and C. A. Wolle, Bethlehem, Pa. Paper bag	353,319	Nov. 30	2225	595, 596	37	907
Lorenz, William A., and W. H. Honiss, Hartford, Conn., assignors to F. W. Leinbach and C. A. Wolle, Bethlehem, Pa. Paper-bag machine	333,647	Jan. 5	194	53 54	34	38
Lorenz, William A., and W. H. Honiss, Hartford, Conn., assignors to F. W. Leinbach and C. A. Wolle, Bethlehem, Pa. Paper-bag machine	337,064	Mar. 16	1461	378, 379	34	1201
Lorenz, William A., and W. H. Honiss, Hartford, Conn., assignors to F. W. Leinbach and C. A. Wolle, Bethlehem, Pa. Paper-bag machine	337,065	Mar. 16	1463	379, 380	34	1202
Lorenz, William A., and W. H. Honiss, Hartford, Conn., assignors to F. W. Leinbach and C. A. Wolle, Bethlehem, Pa. Paper-bag machine	337,066	Mar. 16	1466	380, 381	34	1202
Lorenze, Albert H., New York, N. Y. Flooring for balconies	340,796	Apr. 27	2425	638	35	454
Lorenze, Albert H., New York, N. Y. Fire-escape ladder	340,797	Apr. 27	2425	639	35	454
Lorey, William, and J. Braun, Philadelphia, Pa. Loom shuttle-box-operating mechanism	352,419	Nov. 9	984	265	37	650
Lorillard & Co., P. (See Harmon, Orville S., assignor.)						
Lorillard & Co., P. (See Lorillard and Harmon, assignors.)						
Lorillard, Pierre, Jr., New York, and O. S. Harmon, Brooklyn, N. Y., assignors to P. Lorillard & Co., Jersey City, N. J. Machine for trimming and beveling the edges of cards	340,351	Sept. 21	1098	280, 281	36	1264
Lorimer, John H., Philadelphia, Pa. Wool-drying machine	336,928	Mar. 2	62	17	34	938
Lorimer, John H., Philadelphia, Pa. Wool-drier	347,360	Aug. 17	1235	329	36	708
Lorimer, John H., Philadelphia, Pa. Drying apparatus	354,199	Dec. 14	815	217	37	1162
Lorimer, John H., Philadelphia, Pa. Drying apparatus	354,797	Dec. 21	1673	442	37	1326
Lorimer, John H., Philadelphia, Pa. Drying process	354,798	Dec. 21	1675	443	37	1327
Lorimer, William T., Detroit, Mich. Floating bath-house	342,023	May 18	1443	386	35	792
Loring & Blake Organ Company. (See Loring, Elmer H., assignor.)						
Loring, Elmer H., assignor to Loring & Blake Organ Company, Worcester, Mass. Organ-case	349,656	Sept. 21	1519	393	36	1347
Loring, Samuel. (See Morton, Ephraim S., assignor.)						
Lorne, Antoine T., West Hoboken, N. J. Expansible nut and bolt	349,851	Sept. 28	1816	469	36	1409
Lorraine, Madison J., St. Louis, Mo. Car-coupling	341,026	May 4	69	19	35	518
Lorraine, Madison J., St. Louis, Mo. Car-coupling	341,027	May 4	72	20	35	519
Lorraine, Madison J., St. Louis, Mo. Car-coupling	353,320	Nov. 30	2226	596	37	907
Lorton, Alfred H., New York, N. Y. Scuttle	340,722	Apr. 27	2325	612	35	435
Losee, Jacob C., Summit, N. J. Thermostat for incubators	336,125	Feb. 16	1473	388, 389	34	718
Loss, Lewis M. (See Hirt, Louis J., assignor.)						
Lostutter, Peter R., *et al.* (See Walker, William C., assignor.)						
Lothrop, Llewellyn D., Gloucester, Mass. Fishing-tackle	333,648	Jan. 5	198	55	34	39
Lotstrom, Alexander. (See Reindl and Lotstrom.)						
Lott, Charles E. (See Beaman, Andrew J., assignor.)						
Lott, Charles G., assignor to A. Plamondon Manufacturing Company, Chicago, Ill. Belt-tightener	354,836	Dec. 21	1725	456	37	1336
Lott, James D., *et al.* (See Johnson, Delbert E., assignor.)						
Lotter, Fritz, Altena, Westphalia, Prussia, Germany. Reducing ores of nickel and cobalt with oxide of manganese	339,067	Mar. 30	3008	.....	34	1492
Lottridge, William, assignor of twelve-eighteenths to M. V. Nichols and C. H. Cotter, Osage, Iowa. Grain-binder	338,091	Mar. 16	1629	424, 425, 426, 427	34	1232
Loucks, George W. S., *et al.* (See Jarman, George R., assignor.)						
Loucks, George W. S. (See Wheeler, William H., assignor.)						
Loud, Waldo A., Springfield, Mass. Traction-wheel	346,410	July 27	2291	588	36	438
Louden, William, Fairfield, Iowa. Hay-carrier	337,173	Mar. 2	392	102	34	998
Louden, William, Fairfield, Iowa. Hay-elevator	347,052	Aug. 10	787	209, 210	36	618
Louden, William, Fairfield, Iowa. Hay-elevating fork	348,632	Sept. 7	138	39	36	1072
Louderback, Edwin, Philadelphia, Pa. Window-screen	334,876	Jan. 26	1931	514	34	379
Loughlin, Terrence O., Spanish River, Ontario, Canada. Saw	352,624	Nov. 16	1254	338	37	707
Louisville Spirit Cured Tobacco Company. (See Robinson, Goldsborough, assignor.)						
Lounsbury, Fred C., Brooklyn, N. Y. Visiting or fancy card	345,158	July 6	499	127	36	91
Louque, Charles, New Orleans, La. Reciprocating balance for steam-engines	350,068	Sept. 28	2105	544	36	1464
Louvet, John B. (See Mahoney and Louvet.)						
Love, Francis M. (See Love, Samuel C. and F. M.)						
Love, Francis M., assignor of one-half to S. C. Love, Shelbyville, Ind. Wire-fence machine	346,595	Aug. 3	181	49	36	495
Love, Francis M. and S. C., Shelbyville, Ind. Wire-fence machine	352,061	Nov. 2	479	130	37	549
Love, George W., Pere Cheney, Mich. Double strawberry-runner cutter	337,174	Mar. 2	396	102	34	999
Love, Samuel C. (See Love, Francis M., assignor.)						
Love, Samuel C. (See Love, Francis M. and S. C.)						
Love, Samuel C. and F. M., Shelbyville, Ind. Tension device for wire-fence machines	350,542	Oct. 12	616	171	37	119
Lovegrove, Thomas J. (See Huey and Lovegrove.)						
Lovegrove, Thomas J., Philadelphia, Pa. Cable railway	353,321	Nov. 30	2227	597	37	907
Lovejoy, James J., and L. Kraft, Wheeling, W. Va. Privy	349,399	Sept. 21	1184	306	36	1280
Lovejoy, Son & Co. (See Ferguson, James H., assignor.)						
Loveland, Edwin B. (See Smith, Frank B., assignor.)						
Lovelidge, Thomas, Philadelphia, Pa. Nut-lock	335,941	Feb. 9	1209	322	34	664
Lovell, Clinton. (See Parkhurst and Lovell.)						
Lovell, Clinton, Boston, Mass., assignor to Albert Nail Company, New York, N. Y. Die for wire-nail machines	340,886	Apr. 27	2544	669	35	474
Lovell, Clinton, Boston, Mass., assignor to Albert Nail Company, New York, N. Y. Wire-nail machine	340,887	Apr. 27	2545	670	35	474
Lovell, Clinton, Boston, Mass., assignor to Albert Nail Company, New York, N. Y. Rivet-forming die	340,888	Apr. 27	2546	671	35	474
Lovell, David H., Renovo, Pa. Spring-frog	338,177	Mar. 16	1754	458	34	1258
Lovell, John W., New York, N. Y. Guard for books, pamphlets, and other publications	334,446	Jan. 19	1348	366	34	264
Lovell Manufacturing Company. (See Lovell, Melvin N., assignor.)						
Lovell, Melvin N., assignor to Lovell Manufacturing Company, (limited,) Erie, Pa. Clothes-wringer	344,745	June 29	2784	720	35	1543
Lovely, Victor H., Underhill, Vt. Coal and ash sifter	341,340	May 4	516	142	35	599
Lovett, Antoine D., Geneva, assignor to P. S. Hadger, Auburn, N. Y. Seat-lock	353,228	Nov. 23	2093	560	37	876
Lovick, George, Temple, Tex. Seed-planter	335,370	Feb. 2	400	103	34	513

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Lovin, William M., Greenville, Tex. Seeder	335,709	Feb. 9	879	231	34	604
Low, A. Augustus. (See Johnson and Low.)						
Low, Frederick R. (See Clark and Low.)						
Low, Frederick R., Chelsea, assignor to Ashcroft Manufacturing Company, Boston, Mass. Steam-engine indicator	350,069	Sept. 28	2106	545	36	1464
Low, Hamilton F. (See Gazaill and Low.)						
Low, Hamilton F. (See Murphy and Low.)						
Low, Joel B., San Francisco, Cal. Rock crusher	350,494	Oct. 12	556	155	37	109
Low, John F. (See Low, John G., assignor.)						
Low, John G., Chelsea, Mass. Tile-making machine	336,240	Feb. 16	1674	435, 436	34	750
Low, John G., Chelsea, Mass. Making tiles	336,241	Feb. 16	1676	436	34	750
Low, John G., Chelsea, Mass. Tile decoration	336,242	Feb. 16	1677	436	34	750
Low, John G., Chelsea, Mass. Tile decoration	336,243	Feb. 16	1677	437	34	750
Low, John G., Chelsea, Mass. Tile with holes to serve as frames or supports	336,244	Feb. 16	1678	437	34	750
Low, John G., assignor of one-half to J. F. Low, Chelsea, Mass. Clock-case	333,873	Jan. 5	515	140	34	96
Low, John G., and H. E. Streeter, Chelsea, Mass. Plastic article	335,528	Feb. 2	610	159	34	519
Lowcock, Arthur, Shrewsbury, county of Salop, and T. Sykes, Manchester, county of Lancaster, England. Fuel-economizer	334,533	Jan. 19	1472	395	34	286
Lowden, Leonidas C., Lawrence, Ind. Wire-fence machine	346,052	July 20	1789	461	36	333
Lowe, Charles, Reddish, near Stockport, county of Lancaster, England. Manufacture of derivatives of aurin	333,649	Jan. 5	199	.....	34	39
Lowe, Frank W. (See Sullivan, Cornelius F., assignor.)						
Lowe, Frank W., Boston, Mass. Garment-holder and stocking-supporter	341,824	June 15	1523	384	35	1297
Lowe, Harry, Montpelier, Vt. Check-bar for bridles	335,465	Feb. 2	523	137	34	535
Lowe, John, Providence, R. I. Lacing-hook	340,919	Apr. 27	2584	681	35	482
Lowe, Samuel, and J. W. Lamb, Nottingham, county of Nottingham, England. Knitting-machine	349,352	Sept. 21	1103	282, 283, 284, 285, 286	36	1265
Lowe, Samuel B., *et al.* (See Haskin, Uri, assignor.)						
Lowell Faucet Company. (See Hallowell, Albert, assignor.)						
Lowell Machine Shop. (See Canning, William P., assignor.)						
Lowell Machine Shop. (See Cummings, Edwin H., assignor.)						
Lowell Machine Shop. (See Thomas, Edward W., assignor.)						
Lowell Oiler Company. (See Humphrey, Henry P., assignor.)						
Lowenstein, Max. (See Catlin, Frederick, assignor.)						
Lowenthal, Herman, *et al.* (See Powell and Nolan, assignors.)						
Lowman, Jacob B., Virginia City, Mont. Ter. Neck-yoke coupling	350,688	Oct. 12	838	225	37	159
Lowman, Leroy B., assignor of one-half to J. P. Kemp, Kempton, Ind. Nut-lock	354,868	Dec. 21	1772	467	37	1345
Lowrey, Andrew S. (See Armstrong and Lowrey.)						
Lowrie, Harvey C., Denver, Colo. House sewerage or drainage apparatus	343,326	June 8	814	205	35	1161
Lowrie, Harvey C., Denver, Colo. Ball-valve	343,327	June 8	818	205, 206	35	1162
Lowrie, Harvey C., Denver, Colo. Toilet-stand	354,917	Dec. 28	1846	488, 489	37	1371
Lowry, Joseph L., Pittsburg, Pa. Steam pumping-engine	350,755	Oct. 12	919	247, 248, 249	37	175
Lowry, Talman P., Bryan, Tex. Cotton-planter	350,311	Oct. 5	280	80	37	57
Lowther, Charles, New York, N. Y. Driving apparatus	340,513	Apr. 20	2027	520	35	377
Lubin, David, Sacramento, Cal. Clod crusher and leveler	350,205	Oct. 5	157	46	37	32
Lubin, David, Sacramento, Cal. Clod chopper and pulverizer	350,831	Oct. 12	1038	277	37	196
Lubin, David, Sacramento, Cal. Clod-crusher	350,832	Oct. 12	1039	277, 278	37	197
Lubin, David, Sacramento, Cal. Clod crusher, pulverizer, and seeder	354,513	Dec. 14	1232	335	37	1241
Lubs, John S., New York, N. Y. Car brake and starter	344,784	June 29	2839	735	35	1553
Luburg, Charles E., Philadelphia, Pa. Carriage-brake	353,870	Dec. 7	312	81	37	1064
Lucas, Albert G., *et al.* (See De Zeng, Henry L., assignor.)						
Lucas, Charles H., Canton, Me. Watch-maker's screw-driver	341,812	May 11	1161	310	35	733
Lucas, Christian E., Atlanta, Ga. Ventilating cars	338,850	Mar. 30	2692	709	34	1438
Lucas, Heman S., Chester, Mass. Manufacture of compound mica sheets	335,598	Feb. 9	719	192	34	576
Lucas, John, Hastings, Minn. Grain-separating machine	343,999	June 22	1754	452	35	1348
Lucas, John, assignor to W. M. Stewart, trustee, Philadelphia, Pa. Mining-machine	333,960	Jan. 5	632	173, 174	34	119
Lucas, Josiah. (See Harris and Lucas.)						
Lucas, Robert, and W. Dootson, Athens, Ga. Churn	336,011	Feb. 9	1301	346	34	680
Luce, Edward J., New Bedford, Mass. Device for playing games	343,541	June 8	1126	284	35	1218
Luce, Theodore, Detroit, Mich. Filter	347,432	Aug. 17	1329	354	36	726
Lucey, Mary A., Boston, Mass. Skirt-form	340,133	Apr. 20	1478	373, 374	35	276
Lucht, Herman, Englewood, Ill. Door and window casing	354,918	Dec. 28	1848	489	37	1371
Luckey, George E., Paris, Tenn. Pea-thrasher	336,012	Feb. 9	1302	346	34	680
Lucksinger, John, Beaufort, Mo. Wagon-axle	343,772	June 15	1466	367	35	1286
Lucock, John S. (See Williams, Eitemiller, and Lucock.)						
Ludden, George E., East Braintree, Mass. Sail-fastening device	340,588	Apr. 27	2137	552	35	404
Luddington, Daniel L., Grass Valley, Cal. Stove-door	339,309	Apr. 6	278	69	35	72
Luddy, James G., Cambridge, Mass. Brush	349,727	Sept. 28	1646	425	36	1375
Ludlow, Charles A., assignor of one-half to A. R. Lacey, Bridgeport, Conn. Making rugs, fringe, &c., and material therefor	336,524	Feb. 16	2055	540	34	819
Ludlow, Francis M., Sr., St. Louis, Mo. Packing for pistons, plungers, &c.	348,527	Aug. 31	2921	785	36	1037
Ludlow, George M., Chicago, Ill. Crimping-machine	345,241	July 6	608	154	36	110
Ludlow, Josiah A., and D. Carlough, assignors of one-third to J. T. Seely, Paterson, N. J. Hinge	348,133	Aug. 24	2348	630	36	923
Ludlow Toy Manufacturing Company. (See Gibbs, Eugene H., assignor.)						
Ludlum, William, Marion, Ind. Conveyer and elevator for straw, hay, &c	336,126	Feb. 16	1474	389	34	718
Ludlum, William E., Pompton, N. J., and W. A. Stevenson, New Haven, Conn. Vehicle-spring	344,785	June 29	2840	735	35	1553
Ludwig, Charles, Reinbeck, Iowa. Windmill	353,363	Nov. 30	2286	610	37	918
Ludwig, John C., San Francisco, Cal. Polarized telegraphic relay	337,372	Mar. 2	522	136	34	1023
Ludwig, Thomas I., Fremont, assignor of one-half to G. Moore, Ballville, Ohio. Corn-husker	348,528	Aug. 31	2923	785, 7, 6	36	1037
Luedemann, Albert, New York, N. Y. Bottle-stopper	337,003	Mar. 2	165	44	34	955

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lufkin, John W., Chelsea, Mass. Button-hole sewing machine	337,273	Mar. 2	525	136, 137, 138	34	1023
Lufkin, John W., Winchester, Mass. Stop mechanism for sewing and other machines	347,053	Aug. 10	792	210	36	619
Lugo, Orazio, New York, N. Y. Producing solid compounds resembling vulcanite from hair, &c	343,590	June 15	1205	.....	35	1239
Lugo, Orazio, New York, N. Y. Vulcanite and producing the same	343,591	June 15	1205	.....	35	1239
Lugo, Orazio, New York, N. Y. Electric battery	346,053	July 20	1790	461	36	334
Lugo, Orazio, New York, N. Y. Receiving-telephone	348,134	Aug. 24	2349	630	36	923
Lugrin, Henry A., New York, N. Y. Stem winding and setting watch	334,179	Jan. 12	961	260	34	185
Lugrin, Henry A., New York, N. Y. Stop-watch	333,795	Dec. 7	198	53, 54	34	1043
Lugrin, Henry A., assignor to himself and P. Nordmann, New York, N. Y. Stop-watch. (Reissue)	10,770	Sept. 28	2145	555	36	1472
Lührs, Ernst A. (See Schaefer, John C., assignor.)						
Lumber Saving and Dressing Saw Company. (See Proctor, David R., assignor.)						
Lumbert, Daniel, Centreville, Mass. Dish-basin	352,250	Nov. 9	768	205	37	606
Lummus, Franklin H., Brooklyn, N. Y. Cotton-gin	343,380	June 8	910	228	35	1179
Lund, William, Philadelphia, Pa. Wool-combing machine	355,186	Dec. 28	2223	587	37	1443
Lundgren, John, New York, N. Y. Swimming-leggin	349,256	Sept. 14	986	251	36	1233
Lundqvist, Alexius T., Brooklyn, N. Y. Refrigerator for oysters	336,056	Feb. 9	1367	361	34	691
Lundstedt, O. Emil, Brooklyn, N. Y. Galvanometer	338,178	Mar. 16	1755	459	34	1258
Lunze, George, Zurich, Switzerland. Apparatus for treating liquids with gases	344,322	June 22	2208	567	35	1429
Lüngen, Adam, New York, N. Y. Electric bell and alarm	352,472	Nov. 9	1049	282	37	662
Lüngen, Adam, New York, N. Y. Electrical gas-lighter	352,473	Nov. 9	1051	283	37	663
Lüngen, Adam, New York, N. Y. Electric device	352,474	Nov. 9	1052	283	37	663
Lüngen, Adam, New York, N. Y. Electric door-opener	353,263	Nov. 23	2144	575	37	886
Lüngen, Adam, assignor to Edwards & Co., New York, N. Y. Electric cut-out	341,384	May 4	582	160	35	611
Lungren, Charles M., New York, N. Y. Incandescent gas-light	336,576	Feb. 23	2130	558	34	839
Lungren, Charles M., New York, N. Y. Regenerative gas-lamp	347,622	Aug. 17	1607	426	36	778
Lungren, Charles M., New York, N. Y. Gas-regulator	351,387	Oct. 26	1832	481	37	353
Lungren, Charles M., New York, N. Y., assignor, by mesne assignments, to Siemens-Lungren Company. Regenerative gas-lamp	350,438	Oct. 5	459	129, 130	37	88
Lungren, Charles M., New York, N. Y., assignor, by mesne assignments, to Siemens-Lungren Company. Regenerative gas-burner	351,386	Oct. 26	1830	481	37	353
Lunkenheimer, Edmund, assignor to F. Lunkenheimer, Cincinnati, Ohio. Straight-way valve	341,424	May 4	628	172	35	619
Lunkenheimer, Edmund, assignor to F. Lunkenheimer, Cincinnati, Ohio. Straight-way valve. (Reissue)	10,769	Sept. 28	2143	555	36	1472
Lunkenheimer, Edmund, assignor to F. Lunkenheimer, Cincinnati, Ohio. Straight-way valve	354,019	Dec. 7	537	146	37	1104
Lunkenheimer, Frederick. (See Lunkenheimer, Edmund, assignor.)						
Lunt, Edwin, Newburyport, Mass. Shoe	340,052	Apr. 13	1365	342	35	250
Lupton, Thomas M., Winchester, Va. Shutter-worker	351,705	Oct. 26	2319	603	37	444
Luscher, John. (See Light and Luscher.)						
Luscomb, Annie F., *et al.* (See Upham and Fay, assignors.)						
Lusse, Yost, Philadelphia, Pa. Oscillating engine	350,633	Oct. 12	757	207, 208	37	145
Lussier, Joseph, assignor of one-half to W. F. Williams, Minneapolis, Minn. Wrench	333,961	Jan. 5	634	174	34	120
Lusson, Walter C., Philadelphia, Pa. Axle-lubricator	353,229	Nov 23	2094	561	37	876
Lustig, Adolphus J., assignor of one-fifth to L. Kahn, New York, N. Y. Ingot-mold cover	344,451	June 29	2388	615	35	1470
Lustig, Adolphus J., assignor of one-fifth to L. Kahn, New York, N. Y. Manufacturing compound metal plates of precious metals	352,475	Nov. 9	1053	283	37	663
Lustig, Adolphus J., assignor of one-fifth to L. Kahn, New York, N. Y. Mold for casting compound ingots	352,476	Nov. 9	1054	283	37	663
Lustig, Adolphus J., assignor of one-fifth to L. Kahn, New York, N. Y. Soldering tubes of plated metals	352,477	Nov. 9	1055	284	37	663
Luther, Frank, New Carlisle, Ind. Hay-loader	355,187	Dec. 28	2225	587	37	1443
Luther, Jonathan. (See Howe, John C., assignor.)						
Luthy, Charles T., *et al.* (See Luthy, Godfrey, assignor.)						
Luthy, Charles T., Peoria, Ill. Coffee-case	345,242	July 6	610	154	36	110
Luthy, Charles T., Peoria, Ill. Smoke and cinder deflector for cars	350,888	Oct. 12	1113	296	37	210
Luthy, Ferdinand, *et al.* (See Luthy, Godfrey, assignor.)						
Luthy, Godfrey, assignor of two-thirds to C. T. and F. Luthy, Peoria, Ill. Preparing starch	346,820	Aug. 3	449	124	36	547
Luton, Robert M. (See Tracy, William P., assignor.)						
Lüttinger, Adam, New York, N. Y. Washing-machine	339,107	Mar. 30	3071	813	34	1503
Lutz, Albert C., Flint, Mich. Manufacturing cigar-holders and other articles from soluble and non-soluble gums	345,243	July 6	611	155	36	111
Lutz, Charles, Loudonville, Ohio. Nut-lock	346,440	July 27	2338	601	36	446
Lux, John H. and P., and S. Ede, Earlville, Iowa; John H. Lux administrator of said P. Lux, deceased. Hay-loader	341,385	May 4	584	160	35	611
Lux, Philip. (See Lux and Ede.)						
Luysten, William W., New York, N. Y. Hand-grenade extinguisher	338,604	Mar. 23	2329	610	34	1367
Luzenberg, Edward A., and E. Sachs, San Antonio, Tex. Stamp-canceler	341,425	May 4	630	172	35	619
Lycan, Edward, Honolulu, Hawaii. Ramie-machine	340,514	Apr. 20	2028	520	35	377
Lycan, Edward, assignor, by mesne assignments, to Hawaiian Ramie Company, Honolulu, Hawaii. Decorticating-machine	355,188	Dec. 28	2225	587, 588	37	1443
Lyle, William R., Ripon, Wis. Storm-door	339,567	Apr. 6	674	164	35	122
Lyman, Charles H., Ansonia, Conn., assignor to Ansonia Brass and Copper Company and W. A. Hull, New York, N. Y. Suspending device for lamps, &c	350,495	Oct. 12	557	155	37	109
Lyman, Charles H., Ansonia, Conn., assignor to Ansonia Brass and Copper Company and W. A. Hull, New York, N. Y. Suspension device for lamps and other articles	354,514	Dec. 14	1253	335	37	1242
Lyman, Darius, and M. Wheeler, Washington, D. C. Electric lamp	352,625	Nov. 16	1255	339	37	707
Lyman, Fordyce A., Cleveland, Ohio. Vapor-burner	350,439	Oct. 5	461	130	37	89
Lyman, James, *et al.* (See Doubleday, Harry M., assignor.)						
Lyman, James. (See Doubleday and Lyman.)						
Lyman, Nathan R., and A. Morley, Chicago, Ill. Stereotype plate and base with locking device	349,257	Sept. 14	987	252	36	1234
Lyman, William, Middlefield, Conn. Gun-sight	341,426	May 4	630	172	35	619
Lyman, William, Middlefield, Conn. Sight for fire-arms	348,224	Aug. 31	2501	673	36	956
Lynch, Daniel, Glens Falls, N. Y. Mop-wringer	337,374	Mar. 2	528	139	34	1024
Lynch, Edward P., Davenport, Iowa. Lister-plow	347,880	Aug. 24	1994	528	36	857
Lynch, Edward P., Davenport, Iowa. Stalk-cutting machine	348,167	Aug. 24	2401	644	36	933
Lynch, Garry G., and P. Lanton, Illaward, La. Saw-sharpening device	348,168	Aug. 24	2403	644	36	933

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Lynch, Hubbard C. (See Charlton and Lynch.)						
Lynch, Hubbard C., Houston, Tex. Box-car-door fastener and spark-arrester	351,114	Oct. 19	1454	381	37	279
Lynch, John, North Muskegon, Mich. Siding-machine	343,328	June 8	820	206	35	1162
Lynch, John C., Sycamore, Ohio. Work-bench vise	345,244	July 6	612	155	36	111
Lynch, Michael, and W. F. Harrison, Florence, Ala. Permutation-lock	338,234	Mar. 16	1836	477	34	1271
Lynch, Thomas P., New York, N. Y. Spring bed-bottom	333,958	Jan. 5	630	173	34	118
Lynd, William J., Treka, Cal. Speaking and singing doll	351,785	Nov. 2	81	22	37	473
Lynde, Myron, Grundy Centre, Iowa. Draft-equalizer	339,108	Mar. 30	3072	813	34	1503
Lynde, Myron, Grundy Center, Iowa. Draft-equalizer	346,054	July 20	1791	461	36	334
Lyne, Charles, Chicago, Ill. Baby-carriage	337,343	Mar. 2	617	162, 163	34	1040
Lynn, Mirabeau N., Rising Sun, assignor to American Electric Headlight Company, Indianapolis, Ind. Pitman attachment for multiple-cylinder steam-engines	334,025	Jan. 12	731	200	34	144
Lynn, Mirabeau N., Rising Sun, assignor to American Electric Headlight Company, Indianapolis, Ind. Steam-engine	335,530	Feb. 2	612	159, 160, 161	34	549
Lynn, Mirabeau N., Rising Sun, assignor to American Electric Headlight Company, Indianapolis, Ind. Cut-off valve for steam-engines	336,862	Feb. 23	2516	664	34	910
Lyon, Baxter, and W. I. Macomber, assignors to G. L. Vose, Providence, R. I. Machine for making metallic beads	340,515	Apr. 20	2029	520, 521	35	377
Lyon, Charles H., Greeley, Kans. Machine for measuring and winding fabrics	352,478	Nov. 9	1056	284	37	663
Lyon, Edward H. (See Keller and Lyon.)						
Lyon, Edward W. (See Thornton and Hubbard, assignors.)						
Lyon, George W., *et al* (See Post, Charles N., assignor.)						
Lyon, Henrietta J., Newark, N. J. Attachment for pants	338,641	Mar. 23	2382	627	34	1376
Lyon, Henrietta J., Newark, N. J. Attachment for pants	349,657	Sept. 21	1520	393	36	1347
Lyon, James E. (See Whitaker, David W., assignor.)						
Lyon, Lemuel A. (See Davis and Lyon.)						
Lyon, Lewis. (See Robertson and Jonson, assignors.)						
Lyon, Platt, Jr., Jeffersonville, Ind. Sad-iron mold	342,370	May 25	1955	517	35	893
Lyons, Edmund J. (See Collins and Lyons.)						
Lyons, George W., and J. Sheldon, Watertown, N. Y. Can-opener	349,281	Sept. 14	1012	259	36	1239
Lyons, James B., Norway, Mich. Mining-pump	347,724	Aug. 17	1765	471	36	806
Lyons, Thomas, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Meat-cutter	334,123	Jan. 12	874	239	34	170
Lyte, Farnham M., Cotford, county of Surrey, England. Purifying potable and other waters	341,853	May 11	1214	.....	35	743
Lyth, George W., Stockholm, Sweden. Burner and lamp for mineral oils or their equivalents	346,856	Aug. 3	505	139	36	559
Lytle, Albert E., Chicago, Ill. Hand-grenade fire-extinguisher	337,344	Mar. 2	619	163	34	1040
Lytle, Albert E., assignor of one-third to R. B. Smith, Chicago, Ill. Railway water-tank	333,959	Jan. 5	631	173	34	119
Lytle, Andrew J., assignor to O. S. Price and S. P. Scott, Hillsborough, Ohio. Sheep-shears	340,053	Apr. 13	1366	342	35	250
Maas, A. H., *et al.* (See Müller, Armand, assignor.)						
Maas, Blum & Co. (See Scherer, Charles, assignor.)						
Maas, John B., Humboldt, Mich. Rock-drill	343,466	June 8	1036	258	35	1202
Maas, John B., Humboldt, Mich. Steam-actuated valve	343,911	June 15	1633	417	35	1319
Maass, Franz, assignor to H. Reinhold, Berlin, Germany. Cork-core steam-packing	346,598	Aug. 3	188	50	36	497
Mabbett, Truman, Jr., Beideman Station, N. J. Alarm-lock	338,851	Mar. 30	2694	710	34	1438
Mabery, Charles F., assignor to Cowles Electric Smelting and Aluminum Company, Cleveland, Ohio. Producing anhydrous aluminium chloride	351,184	Oct. 19	1551	.....	37	298
Mabie, George W., *et al.* (See Conard, Léon P., assignor.)						
MacDonald, John C., Boston, Mass. Trouser-hanger	351,058	Oct. 19	1379	362	37	265
MacGonigle, John N., Oil City, Pa. Gas-heating furnace	346,297	July 27	2129	548	36	408
MacKenzie, Robert A., New York, N. Y. Outlining-tool	353,077	Nov. 23	1878	507	37	833
MacKusick, Elmer F., assignor to J. S. Conover & Co., New York, N. Y. Gas-burning fire-place	334,877	Jan. 26	1932	54[illegible]	34	379
MacLachlan, Gilbert G. (See Bock, William A., assignor.)						
MacMackin, Bernard. (See Young, William H., assignor.)						
Macaulay, Thomas A., New York, N. Y. Mechanical movement	340,227	Apr. 20	1624	411	35	302
Macbeth, George A., Pittsburg, Pa. Signal-lens	351,609	Oct. 26	2192	566	37	419
Macdonald, David B., and H. W. Woodman, Hamilton, Ontario, Canada. Electric lamp	339,908	Apr. 13	1164	290	35	214
Macdonald, James, Chicago, Ill. Friction-clutch	334 448	Jan. 19	1352	366	34	265
Macdonald, Malcom, Oakland, Cal. Joint marking and dressing tool for cement pavements	334,125	Jan. 12	875	240	34	170
Macdonald, Ranald, Brooklyn, N. Y. Underground conduit	344,843	July 6	66	16	36	13
Macdonald, William. (See Mantion, Macdonald, and Riley.)						
Macdonald, William C., assignor, by mesne assignments, to himself and A. F. Peirce, Reading, Mass. Life-preserver	335,599	Feb. 9	720	192	34	576
Mace, Alonzo M., Needham, Mass. Gas retort and furnace	345,437	July 13	892	222	36	166
Macfarlane, Robert L. (See Rivett and Macfarlane.)						
Macgowan, Robert W., New York, N. Y. Fanning device for railway-cars	333,767	Jan. 5	371	101	34	70
Mack, Frank M. (See Rheubottom, James R., assignor.)						
Mack, Jacob A., and C. Hansen, assignors of one-third to S. Mills, Madison, Wis. Spring-vehicle	342,213	May 18	1692	451	35	839
Mack, Josiah D., and J. G. Newbury, Albany, N. Y. Hat and coat rack	348,983	Sept. 14	608	160	36	1164
Mack, Patrick H. (See Hazelton and Mack.)						
Mack, William A., Norwalk, Ohio. Cabinet-lock	344,844	July 6	68	17	36	13
Mack, William A., and J. T. Ward, Elyria, Ohio, (executors of L. Ward, deceased,) assignors to J. M. Crane, Newark, N. J. Mail-bag catcher	352,479	Nov. 9	1057	284	37	564
Mack, William B., Boston, Mass. Injector	334,124	Jan. 12	874	240	34	170
Mack, William B., Boston, Mass. Elevated railway	336,247	Feb. 16	1682	438	34	751
Mack, William B., Boston, Mass. Car-truck	340,336	Apr. 20	1778	454, 455	35	331
Mack, William B., Boston, Mass. Elevated railway	340,337	Apr. 20	1779	455	35	331
Mack, William B., assignor of two-thirds to National Tube Works Company, Boston, Mass. Machine for bending metallic pipe	343,962	June 15	1703	436	35	1332
Mack, William H. (See Willson and Mack.)						
Mack, William H., Milwaukee, Wis. Lawn-cleaner	336,728	Feb. 23	2346	614	34	878
Mackenzie, James A., Minneapolis, Minn. Hinge-mortising machine	355,272	Dec. 28	2350	618	37	1168
Mackenzie, Philip W., New York, N. Y. Apparatus for producing gas	334,447	Jan. 19	1349	366	34	265
Mackenzie, Oscar C., Chicago, Ill. File-holder	336,577	Feb. 23	2131	559	34	839
Mackenzie, Thomas, Jr. (See Whiteley, James H., assignor.)						
Mackey, David S., Batavia, N. Y. Feed-regulator for roller-mills	348,755	Sept. 7	296	79	36	1102

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Mackie, Albert H. and F. W., Brockton, Mass. Door attachment	352,699	Nov. 16	1358	367	37	727
Mackie, Fred W. (See Mackie, Albert H. and F. W.)						
Mackie, Matthew W. W. (See Brockie and Mackie.)						
Mackie, Robb, Troy, assignor to J. B. Tibbits, Hoosick, N. Y. Circuit for electric lighting	337,005	Mar. 2	167	44	34	955
Mackie, Robb, Troy, and N. McCarty, assignors to J. B. Tibbits, Hoosick, N. Y. System of electric lighting	337,004	Mar. 2	166	44	34	955
Mackie, Simon F. (See Clayton and Mackie.)						
Mackintosh, Edward D., Brooklyn, assignor to P. Pryibil, New York, N. Y. Machine for making compressed bungs	336,652	Feb. 23	2242	585	34	857
Mackintosh, Edward D., Brooklyn, assignor of one-half to P. Pryibil, New York, N. Y. Clutch	339,310	Apr. 6	279	70	35	52
Mackintosh, Edward D., Brooklyn, assignor to P. Pryibil, New York, N. Y. Carving-machine	346,596	Aug. 3	182	49	36	495
Mackley, Carl T., Innspruck, Tyrol, Austria-Hungary. Match	348,679	Sept. 7	205	54	36	1084
Maclay, James G., *et al.* (See Harris, George M., assignor.)						
Macleod, Malcolm, Manchester, county of Lancaster, England, assignor of one-half to E. M. Yelland, Philadelphia, Pa. Asphalt pavement	355,023	Dec. 28	1987	.....	37	1397
Macleod, William A., Boston, Mass. Rubber shoe	352,199	Nov. 9	707	189	37	596
Macmillan, James R., Chicago, Ill. Cartridge-extractor	354,157	Dec. 14	750	201	37	1150
Macnider, Quintin, Belleville, Ontario, Canada. Step-ladder	355,095	Dec. 28	2099	551	37	1417
Macomber, Ellwood G., Portsmouth, R. I. Fertilizer-distributer	338,852	Mar. 30	2696	710	34	1438
Macomber, William I. (See Lyon and Macomber.)						
Macphail, James, Rockford, Ill. Blank for wheel-rims	343,467	June 8	1037	259	35	1202
Macphail, James, Rockford, Ill. Vehicle-wheel	352,141	Nov. 9	615	162	37	580
Macphail, James, and F. M. Needham, Rockford, Ill. Vehicle-wheel	352,924	Nov. 23	1654	445	37	792
Macready, Robert A., New York, N. Y. Electric-telegraph key	340,134	Apr. 20	1479	374	35	276
Macready, Robert A., New York, N. Y. Telegraphic key	346,930	Aug. 10	620	166	36	588
Macrone, William, Glasgow, Scotland. Machine for varnishing or sizing and applying colors to paper, &c	336,331	Feb. 16	1796	470	34	772
Macrone, William, Glasgow, county of Lanark, Scotland. Waterproofing paper and other fabrics and machinery therefor	341,587	May 11	861	229	35	673
Macrone, William, Glasgow, county of Lanark, Scotland. Varnish	344,119	June 22	1934	.....	35	1380
Macy, James, Dublin, and C. M. Gilbert, Straughn, Ind. Wire-fence machine	342,524	May 25	2175	576	35	931
Macy, James, and C. M. Gilbert, Straughn, Ind. Fence-machine	348,888	Aug. 31	2583	694	36	973
Macy, Lemuel, Independence, Kans. Car-coupling	350,756	Oct. 12	921	249	37	175
Macy, Thomas E., Berne, Ind. Churn	338,280	Mar. 23	1890	497	34	1290
Madden, James L., Lewisport, Ky. Hay or cotton press	351,610	Oct. 26	2195	566, 567	37	420
Madden, John, and C. R. Brown, Cleveland, Ohio; said Madden assignor to said Brown. Lock for whip-sockets	337,846	Mar. 16	1295	336	34	1171
Maddock, Frederick R. (See O'Hare, Daniel O., assignor.)						
Madlem, Daniel. (See Tippett and Madlem.)						
Madsen, Christian A., Gunnison, Utah Ter. Churn	344,534	June 29	2514	648	35	1491
Maertens, Emil, Oswego Falls, N. Y. Making textile fabrics	341,927	May 18	1316	.....	35	769
Magee, Edward A., Brooklyn, N. Y. Blower	344,000	June 22	1755	452	35	1349
Magee, Frank A., Chelsea, Mass., assignor to Magee Furnace Company. Cooking stove or range	344,845	July 6	68	17	36	13
Magee, Frank A., Chelsea, assignor to Magee Furnace Company, Boston, Mass. Heating-stove	353,033	Nov. 23	1815	486, 487, 488	37	821
Magee Furnace Company. (See Magee Frank A., assignor.)						
Magee, Gustave H., New Orleans, La. Safety shipping-bag	353,692	Dec. 7	53	14	37	1016
Magee, Nelson, Hoboken, N. J. Bell-crank	345,438	July 13	894	223	36	166
Magill, John W. (See Carter and Magill.)						
Maginnis, Arthur J., Liverpool, England. Steam steering-gear for vessels	334,593	Jan. 19	1556	416	34	302
Maginnis, Arthur J., Liverpool, England. Steam-winch	337,175	Mar. 2	397	103	34	999
Magner, Thomas J., Hornellsville, assignor of part to J. King and G. W. Rockwell, Buffalo, N. Y. Vehicle-spring	335,942	Feb. 9	1210	322	34	664
Magnette, Jules, Long Island City, N. Y. Ratchet-drill	337,599	Mar. 9	980	251	34	1100
Magnolia Laundry Soap Manufacturing Company. (See Broadbent, Charles F., assignor.)						
Magoon, Charles H. (See Fairbanks and Magoon.)						
Magoon, Charles H., Skowhegan, Me. Horse-blanket	342,800	June 1	37	10	35	1013
Maguire, Charles R., Baltimore, Md. Spring-balance scale	338,535	Mar. 23	2236	587	34	1351
Maguire, Charles R., Baltimore, Md. Spring-balance scale-pan	351,274	Oct. 19	1664	437	37	317
Maguire, Felix, and O. L. Billings, Philadelphia, Pa. Cross-walk for streets	341,490	May 11	720	194	35	646
Maguire, Frank W. (See Whitehead and Maguire.)						
Maguire, Michael, New York, N. Y. Fish line reel	335,600	Feb. 9	721	192	34	577
Mahaffey, Charles M., *et al.* (See Tyler, George, assignor.)						
Mahan, Frank M., assignor of one-half to J. Booth, Chicago, Ill. Campaign hat	353,693	Dec. 7	54	14	37	1017
Mahan, William A., and C. Rossetter, Marquette, Mich. Oil-cup	339,441	Apr. 6	468	114	35	87
Mahanay, Sidney C., and B. L. Campbell, near Manchester, Mo. Electric railway-signal	352,700	Nov. 16	1359	367	37	727
Maher, John N., assignor to G. Gogin, Boston, Mass. Vapor-fuel generator	354,643	Dec. 21	1460	387	37	1285
Maher, Michael, Fremont, Nebr. Car-coupling	347,001	Aug. 10	708	187, 188	36	604
Mahin, Mathew T., Grenola, Kans. Corn-shock-compressing device	338,092	Mar. 16	1642	427	34	1235
Mahlon, James W., assignor of one-half to E. R. Martens and F. A. Coombs, Brooklyn, N. Y. Pipe-cutter	344,487	June 29	2440	627	35	1479
Mahaken, Henry, New York, N. Y. Printing-telegraph receiver	345,245	July 6	613	155	36	111
Mahon, Alexander, assignor of one-third to L. W. Sinsabaugh, Washington, D. C. Combined cigar and ash holder	348,471	Aug. 31	2838	763	36	1023
Mahon, David C. and J. G., Chicago, Ill. Bending-block	337,006	Mar. 2	168	45	34	955
Mahon, John G. (See Mahon, David C. and J. G.)						
Mahoney, Patrick F., and J. B. Louvet, Sandwich, Mass. Forming-block for making lamp-shades, &c	334,126	Jan. 12	877	240	34	170
Mahony, Charles A., Philadelphia, Pa. Pendulum	334,958	Jan. 26	2033	543	34	397
Mahony, James, New York, N. Y. Feed-water heater	336,929	Mar. 2	63	17	34	938
Mahony, Michael, Troy, N. Y. Furnace-grate	346,115	July 27	1867	482	36	358
Mahony, Michael, Troy, N. Y. Ash-chute	346,486	Aug. 3	47	12	36	469
Mahrenholz, Carl L., *et al.* (See Stubbs, Jesse, assignor.)						
Mahurin, Amos. (See Paxton and Mahurin.)						
Maidhof, Joachim, New York, N. Y. Dress-trimming	354,715	Dec. 21	1557	412	37	1304
Maier, Theodore G., Camden, N. J. Bottle-stopper	355,096	Dec. 28	2099	551	37	1418

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Mailloux, James A. (See Robin, Theodule, assignor.)						
Main, George M. (See Suplee and Main.)						
Main, Samuel A. (See Main, Samuel M., assignor.)						
Main, Samuel M., Brooklyn, N. Y., assignor of one-half to S. A. Main, Danbury, Conn. Lubricator	336,578	Feb. 23	2132	559	34	839
Main, Thomas, New York, N. Y. Steam-boiler	332,142	Nov. 9	616	163, 164	37	580
Main, Thomas, New York, N. Y. Balanced compound engine	354,644	Dec. 21	1462	388	37	1286
Main, William, Brooklyn, N. Y. Incandescent electric lamp	336,729	Feb. 23	2347	614	34	879
Maine Corn Husking Machine Company. (See Cummings, Perley D., assignor.)						
Maines, Patrick M., Le Claire, Iowa, and D. E. Nugent, Milton, Ind. Automatic cylinder-cock	342,801	June 1	38	10	35	1013
Mains, John F., assignor of one-half to C. W. Gray, Jeffersonville, Ohio. Roller-skate	336,579	Feb. 23	2133	559	34	839
Mains, John F., Jeffersonville, and B. C. Converse, Springfield, assignors of one-half to C. W. Gray, Jeffersonville, Ohio. Roller-skate	338,993	Mar. 30	2901	769	34	1474
Mair, Robert, Bridesburg, assignor to Bridesburg Manufacturing Company, Philadelphia, Pa. Loom	340,589	Apr. 27	2138	552, 553	35	404
Maish, Calvin H., Carson, Nev. Lamp-burner	349,110	Sept. 14	794	201	36	1196
Maitland, George, *et al.* (See Tomlinson, James, assignor.)						
Maize, George W. (See Thompson, Robert A., assignor.)						
Major, Charles G. (See Stevens and Major.)						
Major, Charles G., assignor of one-half to J. Drew, London, England. Lift or hoist	338,536	Mar. 23	2236	587, 588	34	1351
Major, Emanuel, Rochester, N. Y. Elastic coupling for steam-pipes	335,371	Feb. 2	401	103	34	513
Majors, Joseph D., Bragg's, Ala. Automatic car-coupling	351,332	Oct. 19	1741	458	37	330
Makin, John, Glossop, county of Derby, England, assignor to C. C. Springer, Boston, Mass. Boiler for treating wood, &c., for paper-pulp	335,943	Feb. 9	1211	322	34	664
Makin, John, Belfield, near Rochdale, county of Lancaster, England, assignor to C. C. Springer, trustee, Yarmouth, Me. Lead-lined boiler for paper-pulp	344,120	June 22	1935	494	35	1380
Makutchan, Charles A. (See Makutchan, William H. and C. A.)						
Makutchan, William H. and C. A., Buda, Ill. Two-wheeled vehicle	345,708	July 20	1307	338	36	248
Malam, William, Edgemoor, Del. Car wheel and axle	347,119	Aug. 10	889	235	36	637
Malandin, Leon P. G. (See Delamare-Deboeville and Malandin.)						
Malcolm, Archibald, Chicago, Ill. Washing-machine	336,930	Mar. 2	65	17, 18	34	938
Malet, Henry C. E., Brighton, county of Sussex, England. Gun-carriage	339,795	Apr. 13	1017	251	35	186
Malet, Henry C. E., Brighton, county of Sussex, England. Gun carriage and shield	347,002	Aug. 10	708	187, 188	36	604
Malin & Company. (See Malin, George W., assignor.)						
Malin, Edgar, *et al.* (See McMurray, Louis, assignor.)						
Malin, George W., assignor to Malin & Company, Cleveland, Ohio. Wire-spooling machine	342,702	May 25	2428	644	35	979
Mallett, Edward J., Bay Side, Long Island, N. Y. Automatic printing-telegraph	343,042	June 1	371	96	35	1074
Mallett, Edward J., Bay Side, Long Island, N. Y. Automatic telegraphy	343,043	June 1	375	97	35	1075
Mallett, Edward J., Bay Side, Long Island, N. Y. Automatic telegraphy	343,044	June 1	379	97	35	1075
Malley, John O., Pittsburg, Pa. Machine for finishing the necks of bottles	346,116	July 27	1868	483	36	358
Mallonee, John C., Charleston, S. C. Mixed paint	341,588	May 11	862	.....	35	673
Mallory, D. D. (See Brooks, William D., assignor.)						
Mallory, Frank B., Orange, N. J. Shutter-worker	340,798	Apr. 27	2428	639	35	455
Mallory, Frank B., Orange, N. J. Shutter-worker	343,716	June 15	1396	348	35	1273
Mallory Wheeler Company. (See Sparks, Henry H., assignor.)						
Malmström, Peter E. (See Dummer and Malmström.)						
Maloney, James, Providence, R. I. Cartridge capper and decapper	334,449	Jan. 19	1354	367	34	265
Maloney, James A., Washington, D. C. Convertible telegraph-key	339,909	Apr. 13	1165	290	35	214
Maloney, James A., Washington, D. C. Telegraph-sounder	343,468	June 8	1038	259	35	1202
Maloney, James A., Washington, D. C. Convertible telegraph-key	343,469	June 8	1039	259	35	1202
Maloney, James A., assignor of one-half to H. D. Cooke, Washington, D. C. Pneumatic acoustic telephone	338,994	Mar. 30	2902	769	34	1474
Maloney, James A., assignor of one-half to H. D. Cooke, Washington, D. C. Pneumatic acoustic telephone	338,995	Mar. 30	2904	769	34	1475
Maloney, James A., assignor to Pneumatic Signal and Telephone Company, Washington, D. C. Pneumatic signal-bell	347,183	Aug. 10	979	261, 262	36	653
Maloney, James A., assignor to Pneumatic Signal and Telephone Company, Washington, D. C. Pneumatic signal-bell	347,184	Aug. 10	980	262	36	652
Maloney, James A., and A. G. Johnson, Washington, D. C.; said Johnson assignor to said Maloney. Convertible telegraph-key	336,653	Feb. 23	2248	586	34	859
Maloy, James W., Boston, Mass. Ornamenting stone	346,225	Aug. 31	2502	673	36	957
Maloy, James W., Boston, Mass. Dressing stone	350,936	Oct. 19	1174	312	37	228
Maloy, James W., Boston, Mass. Stone-sawing machine	351,874	Nov. 2	208	58	37	497
Maloy, James W., Somerville, Mass. Stone-dressing machine	351,059	Oct. 19	1380	362	37	265
Maloy, James W., Somerville, Mass. Stone-dressing machine	353,149	Nov. 23	1989	532	37	855
Maloy, James W., Somerville, assignor, by mesne assignments, to American Marble Cutting Company, Boston, Mass. Cutter-head for stone-cutting machines	334,594	Jan. 19	1557	416	34	302
Maloy, James W., Somerville, assignor, by mesne assignments, to American Marble Cutting Company, Boston, Mass. Stone-cutter head	334,595	Jan. 19	1558	416	34	302
Maltby, Frank D., assignor, by mesne assignments, to National Typographic Company, Washington, D. C. Machine for producing stereotype-matrices	339,671	Apr. 13	846	208, 209	35	156
Maltby, Horace, Stapleton, N. Y. Jacket for children	353,796	Dec. 7	200	54	37	1044
Maltby, Philo, Cleveland, Ohio, assignor of one-half to L. G. Hine, Washington, D. C. Reversing-valve for locomotives	347,881	Aug. 24	1996	529, 530	36	857
Maltby, William J. (See French and Maltby.)						
Mambert, Isaac H., Albany, N. Y. Attaching gussets	347,882	Aug. 24	1999	530	36	857
Mambourg, Leopold, *et al* (See Houze, Ulgis, assignor.)						
Mambourg, Leopold. (See Buddekoper, Mambourg, Houze, and Dockstader.)						
Man, Ruel A. (See Requa, Mark M., assignor.)						
Manchester, Francis L. (See Richardson, John D., assignor.)						
Manchester, Luman A., Merced, Cal. Spring-harrow	343,717	June 15	1399	348	35	1273
Mander, John, Philadelphia, Pa. Range	353,871	Dec. 7	313	81	37	1064
Mandeville, Byron, *et al.* (See Linindoll, Charles C., assignor.)						
Mandeville, Ira J., Hazleton, Pa. Combination-tool	348,575	Sept. 7	44	13	36	1056
Mandle, Leopold, New York, N. Y. Clasp	342,214	May 18	1693	451	35	839
Mandt, Targe G., Stroughton, Wis. Jump-seat vehicle	346,760	Aug. 3	383	105	36	535
Mandt, Targe G., Stoughton, Wis. Axle-box	353,568	Nov. 30	2591	692	37	976
Mandt, Targe G., Stoughton, Wis. Bob-sled	353,569	Nov. 30	2592	692	37	976
Mancer, Samuel, Craigvale, Ontario, Canada. Neck-yoke coupling	333,768	Jan. 5	372	101	34	70

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Mangan, Thomas, New Orleans, La., and J. T. Wilson, Cincinnati, Ohio. Automatic change and fare box	351,989	Nov. 2	383	104	37	530
Mangold, Leonard, and C. Grimm, Chattanooga, Tenn. Harrow	346,117	July 27	1869	483	36	358
Manhes, Pierre, Lyons, France. Extracting gold and silver from ores and mattes	337,967	Mar. 16	1468	.....	34	1203
Mankel, Henry, Jr., McKean, Pa. Detachable back for carriage-seats	338,537	Mar. 23	2239	588	34	1351
Mankey, Charles F. (See Mankey, Frederick and C. F.)						
Mankey, Frederick, Williamsport, Pa. Manufacture of ornamental balusters, posts, &c.	340,671	Apr. 27	2251	592 / 593	35	422
Mankey, Frederick, Williamsport, Pa. Cornice	342,024	May 18	1444	387	35	792
Mankey, Frederick, Williamsport, Pa. Making ornamental corner-moldings	342,025	May 18	1444	387	35	792
Mankey, Frederick, Williamsport, Pa. Manufacture of ornamental clapboards	346,209	July 27	2009	518	36	383
Mankey, Frederick, Williamsport, Pa. Manufacturing ornamental moldings	347,361	Aug. 17	1236	329	36	708
Mankey, Frederick, Williamsport, Pa. Making open-work ornamental panels	351,060	Oct. 19	1381	362	37	265
Mankey, Frederick, Williamsport, Pa. Making veneers	351,061	Oct. 19	1382	363	37	265
Mankey, Frederick, Williamsport, Pa. Veneer	351,116	Oct. 19	1455	381	37	279
Mankey, Frederick and C. F., Williamsport, Pa. Manufacturing ornamental wooden handles	353,364	Nov. 30	2287	610	37	918
Manley, Anthony V., Norwich, N. Y. Tanner's apron-support	346,487	Aug. 3	48	12	36	469
Manley, Frederick G., Syracuse, N. Y. Ironing-board	343,045	June 1	384	98	35	1076
Manley, Mandelbert L., Ferry, Mich. Car-door lock	347,185	Aug. 10	982	262	36	654
Manley, William, Rochester, N. Y. Boot or shoe edge trimming machine	336,332	Feb. 16	1797	470 / 471	34	772
Manley, William, Rochester, N. Y. Trimming-cutter for boots or shoes	342,371	May 25	1956	517	35	894
Manly & Cooper Manufacturing Company. (See Manly and Taylor, assignors.)						
Manly, Robert P., Radnor, and F. H. Taylor, Philadelphia, Pa., assignors to Manly & Cooper Manufacturing Company, of Pennsylvania. Manufacture of compound plates	355,274	Dec. 28	2353	619	37	1468
Mann, Charles B. (See Morgan and Mann.)						
Mann, Edgar E., Boston, Mass. Adjustable reed for signal-buoys	341,670	May 11	976	258	35	696
Mann, Edgar E., Boston, Mass. Automatic signal-buoy	341,671	May 11	977	259	35	696
Mann, Jonathan, Milton, Mass. Stone-dressing machine	350,543	Oct. 12	618	172	37	119
Mann, Onslow C. (See Johnson and Mann.)						
Mann, Thomas W., Holyoke, Mass. Urinal	335,601	Feb. 9	722	192 / 193	34	577
Mann, William B., Baltimore, Md. Dental vulcanizer	342,618	May 25	2308	610	35	957
Manners, Charles E. (See Manners, Stephen H. and C. E.)						
Manners, Stephen H. and C. E., assignors of one-half to J. T. Ledan, Adelaid, South Australia. Rope-holder	334,878	Jan. 26	1933	515	34	379
Manning, Cephas, Boston, Mass. Feed-water heater	337,510	Mar. 9	873	221	34	1089
Manning, Eben J. (See Rudd and Manning.)						
Manning, Frank, Ardmore, Pa. Rock-drill	337,968	Mar. 16	1469	381	34	1203
Manning, Frank, Ardmore, Pa. Stone-dressing machine	354,200	Dec. 14	817	217	37	1163
Manning, John J., Great Barrington, Mass. Machine for winding paper webs	339,796	Apr. 13	1019	252	35	186
Manning, John J., Great Barrington, Mass. Apparatus for winding paper webs into rolls	344,187	June 22	2026	518	35	1397
Manning, William P., assignor of one-half to F. S. Presbrey, Youngstown, Ohio. Combined shoe scraper and brush	336,931	Mar. 2	66	18	34	938
Mann's Boudoir Car Company. (See Stanley, Ethelbert A., assignor.)						
Manny, Walter B., St. Louis, Mo. Circuit-closer	354,919	Dec. 28	1849	489	37	1371
Manring, Brofford A., and R. E. Gibbons, Gunnison, assignors of one-third to W. Wigleswortb, Telluride, Colo. Washing-machine	334,596	Jan. 19	1559	416	34	303
Mansfield, Edwin L., Boston, Mass. Work-support	343,381	June 8	911	228	35	1180
Mansfield, Edwin L., Boston, Mass. Drilling-machine	349,728	Sept. 28	1647	425	36	1376
Mansfield, Edwin L., Boston, Mass. Reaming-tool	352,829	Nov. 16	1522	410	37	757
Mansfield, Edwin L., Boston, Mass. Lubricating journal-bearing	354,326	Dec. 14	999	265	37	1195
Mansfield, George J., Viola, Tenn. Water-elevator	342,919	June 1	205	53	35	1042
Mansfield, Henry A., assignor of one-half to H. M. Harrington, Bridgeport, Conn. Fire-extinguisher	351,185	Oct. 19	1552	407	37	298
Mansfield, Horace H., Canton, Mass. Gauge or snood for fish-hooks and other purposes	341,257	May 4	400	110	35	579
Manson, George W., West Buxton, Me., assignor of one-half to T. D. Harrison, Jersey City, N. J. Spring-motor	340,799	Apr. 27	2430	639	35	455
Mansure, Robert, assignor of one-half to B. F. Clark, Philadelphia, Pa. Sign	351,990	Nov. 2	385	105	37	530
Mantion, John D., W. C. Macdonald, and J. J. Riley, Lyons, Iowa, assignors to Diamond Match Company, of Connecticut. Apparatus for manufacturing matches	346,597	Aug. 3	187	50	36	496
Manton, Frank S. (See Grater, Whitney, and Manton.)						
Manton, Joseph P., Providence, R. I., assignor to E. Bynner, Brooklyn, N. Y. Ship-windlass	350,462	Oct. 5	499	140	37	95
Manton, Joseph P., Providence, R. I., assignor to E. Bynner, Brooklyn, N. Y. Steam steering apparatus	350,463	Oct. 5	500	140	37	96
Manton, Joseph P., Providence, R. I., assignor to E. Bynner, Brooklyn, N. Y. Ship-windlass	350,464	Oct. 5	502	140	37	96
Manton, Joseph P., Providence, R. I., assignor to E. Bynner, Brooklyn, N. Y. Steering machinery for ferry-boats	350,465	Oct. 5	504	141	37	96
Mantor, Edgar L., Litchfield, Minn. Washing-machine	341,258	May 4	403	111	35	579
Manufacturers Special Machine Company. (See Beardslee, William F., assignor.)						
Manville, Charles B., Milwaukee, Wis. Steam-boiler and pipe covering	334,959	Jan. 26	2034	543	34	398
Manwaring, Thomas, *et al.* (See Long, William, assignor.)						
Mapes, William R. (See Chase, Sidney A., assignor.)						
Mara, Rhody, Warsaw, N. Y. Drying apparatus	348,566	Sept. 7	45	13	36	1056
Marak, Francis, Jr., Everest, Kans. Radiator	339,442	Apr. 6	469	114	35	87
Maratta, Ella, Pittsburg, Pa. Coal-vault grating	350,757	Oct. 12	982	249	37	175
Marble, Frederick, Jr., Oneida, N. Y. Railway-gate	352,334	Nov. 9	880	237	37	628
Marble, Robert P. (See Smith and Marble.)						
March, George N., Watertown, Mass., assignor, by mesne assignments, to Fiberlene Collar Company, Portland, Me. Collar	337,176	Mar. 2	398	103	34	999
March, George N., Watertown, Mass., assignor to Fiberlene Collar Company, Portland, Me. Lady's collar	345,911	July 20	1597	411	36	300
March, George N., Watertown, Mass., assignor to Fiberlene Collar Company, Portland, Me. Collar	345,912	July 20	1598	412	36	300
March, George N., Watertown, Mass., assignor to Fiberlene Collar Company, Portland, Me. Collar	345,913	July 20	1599	412	36	300
March, Jacob M., Washington D. C. Inside trunk-brace	337,413	Mar. 9	723	187	34	1065
March, John W., *et al.* (See Phillips, Elwood C., assignor.)						
March, Perrin G., *et al.* (See Curry, James H., assignor.)						
Marchand, Charles, New York, N. Y. Treatment of rancid butter and other materials	338,538	Mar. 23	2240	589	34	1352
Marchand, Charles, New York, N. Y. Preservation of meat	349,852	Sept. 28	1817	.....	36	1410

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Marchand, Charles F., Larwill, Ind. Clod crusher and pulverizer	343,046	June 1	385	98	35	1076
Marchand, Henry E., Pittsburg, Pa. Spring-motor	337,177	Mar. 2	399	104	34	999
Marchant, William M., Pawtucket, assignor to A. Burgess, Providence, R. I. Paper-cop-tube machine	341,028	May 4	74	20, 21	35	519
Marcheter, Henry, Wallaceburg, Ontario, Canada. Self-acting safety-gate for swing-bridges	352,251	Nov. 9	769	205	37	607
Marcus, Martin H., Baltimore, Md. Quilting-machine	337,178	Mar. 2	401	104	34	1000
Marcus, Michaelis D., and N. H. Epstein, assignors of one-fifth to A. M. Plato, Portland, Oreg. Electric fire-escape	335,372	Feb. 2	402	103	34	514
Marcy, Frank M., Worcester, Mass. Spool or bobbin	350,985	Oct. 19	1281	336	37	247
Marcy, Frederick L. (See Covell, William W., assignor.)						
Marcy, Rufus G., Kansas City, Mo. Rock-drill	335,373	Feb. 2	403	103	34	514
Marcy, Rufus G., Kansas City, Mo. Machine for drilling wells	338,539	Mar. 23	2242	589	34	1352
Marden, John W., Waltham, and R. H. Littlefield, Somerville, Mass., assignors to Cowell Platform and Coupling Company, Cleveland, Ohio. Car-coupling	335,944	Feb. 9	1213	322	34	665
Marden, Stephen J., Brooklyn, N. Y. Hand-stamp	343,825	June 15	1524	384	35	1297
Marder, Luse & Co. (See Hochstadt, Carl, assignor.)						
Marder, Luce & Co. (See Tufford, William V., assignor.)						
Marean, Josiah T., Brooklyn, N. Y. Toy race-course	339,443	Apr. 6	471	114	35	87
Maret, John C., Paducah, Ky. Velocipede	346,667	Aug. 3	274	75, 76	36	514
Margerum, Mary. (See Marsh and Margerum.)						
Maris, Jared, Philadelphia, Pa. Compound lumber	339,199	Apr. 6	120	33	35	24
Maris, Jared, Columbus, Ohio. Vehicle-hub	347,623	Aug. 17	1609	427	36	779
Mark, Charlie E., Flint, Mich., assignor, by mesne assignments, to Mark's Automatic Car Coupler Company, Cleveland, Ohio. Car-coupling. (Reissue)	10,702	Mar. 23	2456	648	34	1388
Mark, Charlie E., Flint, Mich., assignor to Marks Automatic Car Coupler Company, Cleveland, Ohio. Car-coupling. (Reissue)	10,782	Nov. 16	1630	437, 438	37	780
Mark, Fred. L., Olio, Mich. Car-coupling	353,150	Nov. 23	1990	532	37	856
Markee, Reuel T., Philadelphia, Pa. Carving-machine	339,444	Apr. 6	472	115	35	87
Marker, Frank H., assignor of two-thirds to E. M. Chester, Elkhart, and C. E. Sage, Elkhart County, Ind. Lamp trimming and extinguishing apparatus	349,599	Sept. 21	1452	374	36	1337
Marker, John W., Zane, Ohio. Wheat-granary	342,026	May 18	1445	387	35	793
Markham, Jackson M., Williamsville, Mo. Cattle-pricker belt	352,335	Nov. 9	882	237	37	629
Markham, Jackson M., Williamsville, Mo. Calf-weaner	352,336	Nov. 9	883	238	37	629
Markham, Jackson M., Williamsville, Mo. Device for preventing cattle from goring	352,337	Nov. 9	885	238	37	629
Markland, William H. (See Tucker and Markland.)						
Markland, William H., assignor to Tucker & Baxter, Brooklyn, N. Y. Door-catch adapted to be operated by electricity	350,312	Oct. 5	231	80	37	57
Markland, Wyllis H. (See Dana and Markland.)						
Markoe, Frederick, assignor of one-half to E. Stein, Philadelphia, Pa. Sheet-metal pipe	340,800	Apr. 27	2431	640	35	455
Mark's Automatic Car Coupler Company. (See Mark, Charlie E., assignor.) (Reissue.)						
Marks, George E., Sound Beach, Conn. Combined knife and fork	338,853	Mar. 30	2697	710	34	1439
Marks, Solomon, Cincinnati, Ohio, assignor of one-half to W. P. King, Ludlow, Ky. Hub-band	350,259	Oct. 5	218	63	37	46
Marks, Thomas K., assignor of one-half to W. M. Davis, Cornersville, Tenn. Truss-bridge	346,118	July 27	1870	483	36	379
Marks, Walter, Chapinville, N. Y. Feed-cup for fertilizer-distributers	353,570	Nov. 30	2593	692	37	976
Marks, William D., Philadelphia, Pa. Governor	350,595	Oct. 12	699	189, 190	37	134
Marks, William D., Philadelphia, Pa. Machine for making cutters	353,034	Nov. 23	1818	489, 490	37	822
Marks, William F. (See Gehret, Henry A., assignor.)						
Marland, George, assignor of one-half to H. Hagan, Pittsburg, Pa. Coupling for joints of gas-conduits	338,093	Mar. 16	1643	427	34	1235
Marley, Allen M., De Soto, Kans. Car-coupling	349,853	Sept. 28	1819	470	36	1410
Marlin Fire Arms Company. (See Hepburn, Lewis L., assignor.)						
Marlin, John M., New Haven, Conn. Clutch for tricycles	333,531	Jan. 5	47	13, 14	34	11
Marlin, John M., New Haven, Conn. Magazine-gun	334,535	Jan. 19	1477	396	34	287
Marlin, John M., New Haven, Conn. Clutch for tricycles	348,680	Sept. 7	206	54, 55	36	1084
Marlor, Alfred, Hancock, Mich. Brick-machine	341,928	May 18	1317	352	35	770
Marnell, Nicholas, Savannah, Ga. Dumping-car	342,526	May 25	2178	577	35	932
Marqua, George, Cincinnati, Ohio. School-desk	336,417	Feb. 16	1916	502	34	759
Marr, Frank S., *et al.* (See Doubleday, Harry M., assignor.)						
Marr, Frank S., *et al.* (See Doubleday and Lyman, assignors.)						
Marr, William, Pittsburg, Pa. Treating vegetable fibrous substances	342,448	May 25	2059	543	35	912
Marsá, Ramon, Salobreña, Spain. Bagasse-furnace	339,311	Apr. 6	280	70	35	53
Marsden, George W. L., Wilmington, Del., assignor to himself and E. H. Andress, Newark, N. J. Mixed paint	341,760	May 11	1093	.....	35	719
Marsden, George W. L., Wilmington, Del., assignor to himself and E. H. Andress, Newark, N. J. Dry-paint composition	341,761	May 11	1094	.....	35	719
Marsh, Albert, Amawalk, N. Y. Hoof-pad	342,449	May 25	2060	543	35	912
Marsh, Canfield. (See Horey and Marsh.)						
Marsh, Charles, Reading, Pa. Stamp and envelope moistener	348,403	Aug. 31	2740	735	36	1004
Marsh, Daniel E., and A. Laubscher, Bridgeport, Conn. Strip-folding machine	351,452	Oct. 26	1950	508, 509	37	374
Marsh, Edith A., New Albany, Ind. Egg-beater	345,709	July 20	1308	338	36	248
Marsh, Edward A. (See Fitz Gerald and Marsh.)						
Marsh, Edward A., Newton, Mass. Pinion-leaf-polishing machine	349,944	Sept. 28	1932	499, 500	36	1432
Marsh, Edward W., Bridgeport, Conn., assignor to Fort Dodge Gypsum-Stucco Company, Fort Dodge, Iowa. Calcining gypsum	343,181	June 8	597	149	35	1124
Marsh, Elmer A. (See Altschwager, John C., assignor.)						
Marsh, Elon A., Battle Creek, Mich. Steam-pump	345,311	July 13	711	179, 180	36	133
Marsh, Fanny K., and M. Margerum, Bloomsburg, Pa. Dust-pan	346,761	Aug. 3	384	106	36	536
Marsh, James B. (See Fagersten, Lorenzo, assignor.)						
Marsh, James P., Chicago, Ill. Air-valve for radiators	353,639	Nov. 30	2713	724, 725	37	996
Marsh, John A., Long Lake, Ill. Steam-jet pump	334,597	Jan. 19	1560	417	34	303
Marsh, Orlo J., Titusville, Pa. Combined chair and step-ladder	347,883	Aug. 24	2001	531	36	838
Marsh, Riverius, New Brunswick, N. J. Faucet	350,506	Oct. 12	700	190	37	134
Marsh, Riverius, New Brunswick, N. J. Reversible faucet	351,875	Nov. 2	209	59	37	497
Marsh, Riverius, New Brunswick, N. J. Faucet	351,876	Nov. 2	210	59	37	497
Marsh, Riverius, New Brunswick, N. J. Nozzle for cans	354,561	Dec. 21	1327	352	37	1262
Marshal, Franklin J., assignor to O. F. Marshal, Jr., Wheeler, N. Y. Harrow	334,180	Jan. 12	962	261	34	136

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Marshal, Otto F., Jr. (See Marshal, Franklin J., assignor.)						
Marshall, Adaline S., *et al.* (See Marshall, George, assignor.)						
Marshall, Edward S., and R. W. Savage, Tyler, Tex. Lubricant	339,200	Apr. 6	122	.....	35	24
Marshall, Edward S., and R. W. Savage, Tyler, Tex. Obtaining a lubricant from the cactus-plant	341,156	May 4	255	.....	35	551
Marshall, Edward W., Philadelphia, Pa. Inkstand	352,095	Nov. 2	531	141	37	558
Marshall, Elias, Boston, Mass. Indicator for elevators	349,729	Sept. 28	1648	425	36	1376
Marshall, Frank J., Turner's Falls, Mass. Pulp-beating engine	342,802	June 1	39	10	35	1013
Marshall, George, Detroit, Mich., assignor to A. J. Phelps, Syracuse, N. Y., and A. S. Marshall, Detroit, Mich. Steam-boiler	342,525	May 25	2177	576 / 577	35	932
Marshall, George V., Pittsburg, Pa. Spiral stairway	340,338	Apr. 20	1780	456	35	331
Marshall, Holmes, Cleveland, Ohio. Fare recorder and register	334,534	Jan. 19	1473	395 / 396	34	286
Marshall, Howard T., Brockton, Mass. Boot or shoe	340,135	Apr. 20	1480	374	35	276
Marshall, James C., Boston, Mass. Machine for scoring and cutting paper for boxes	347,492	Aug. 17	1424	378 / 379	36	743
Marshall, James E. (See Farber, Mannasseh W., assignor.)						
Marshall, John. (See Sutcliffe and Marshall.)						
Marshall, John, Brooklyn, N. Y. Faucet for shipping-cans, &c	348,756	Sept. 7	297	79	36	1102
Marshall, Joseph H., Grand Rapids, Mich. System of lighting cars by electricity	353,797	Dec. 7	201	54	37	1044
Marshall, Joseph S., Clear Water, Kans. Grain weighing and registering apparatus	346,668	Aug. 3	276	76	36	515
Marshall, Justice W., Cazenovia, N. Y. Self-oiling axle	333,532	Jan. 5	49	14	34	12
Marshall, Robert, Hamilton, Ontario, Canada. Crimping-machine for boots and shoes	348,135	Aug. 24	2350	630 / 631	36	923
Marshall, Thomas B., Sidney, Ohio. Sandpapering and polishing machine	350,689	Oct. 12	839	226	37	159
Marshall, Thomas T., Hamilton, Ontario, assignor to J. A. McRae, Montreal, Canada. Crimping-machine for boots and shoes	346,055	July 20	1792	462	36	334
Marshall, William, New York, N. Y. Telephonic receiver and circuit	341,259	May 4	404	111	35	579
Marshall, William, New York, N. Y. Telephonic circuit	349,342	Sept. 21	1046	268	36	1254
Marshall, Willis, Chicago, Ill. Grain-binder	341,589	May 11	862	229 / 230	35	673
Marshall, Winfield S., Centralia, Ill. Convertible saddle-bags and hand-trunk	340,339	Apr. 20	1782	456	35	332
Marston, David W., assignor of three-fourths to M. V. Purmost, H. M. Day, M. L. Stearns, Lebanon, N. H., and Derby & Ball, Bellows Falls, Vt. Scythe-snath fastening	349,353	Sept. 21	1110	286	36	1266
Marston, George, assignor to himself, B. M. and C. M. Kimball, Haverhill, Mass. Safety-attachment for railway-cars	346,762	Aug. 3	385	106	36	536
Marston, William P., Toronto, Ontario, Canada. Pencil-sharpener	350,260	Oct. 5	219	63	37	46
Martens, Elizabeth R., *et al.* (See Mahlon, James W., assignor.)						
Marter, E. M., *et al.* (See Lappin, Frank, assignor.) (Reissue.)						
Marti, Casper, Minneapolis, Minn. Egg-register	336,333	Feb. 16	1800	471	34	773
Martin, Aaron J., Evansville, Ind. Combined pole and shafts for vehicles	336,334	Feb. 16	1801	471	34	773
Martin, Albert L., Concordia, Kans. Egg-case	348,094	Mar. 16	1644	428	34	1236
Martin, Charles, Toronto, Ontario, Canada. Match-dipping apparatus	349,111	Sept. 14	795	201	36	1196
Martin, Charles, Toronto, Ontario, Canada. Match-tray	349,112	Sept. 14	797	202	36	1196
Martin, Charles, Toronto, Ontario, Canada. Match making and dipping machine	349,113	Sept. 14	798	202 / 203	36	1196
Martin, Charles H., Bridgeport, Conn. Spring-heel	354,986	Dec. 28	1938	512	37	1388
Martin, Charles S., *et al.* (Senor.) (See Wilcox, Harlow M., Senor.)						
Martin, Edwin H., and J. Beavis, Cleveland, Ohio. Rolling-mill	349,730	Sept. 28	1649	426	36	1376
Martin, Elisha J., Rockville, Conn. Reel for fishing-rods	335,826	Feb. 9	1042	275	34	634
Martin, Gabriel, Monroe, Ohio. Corn-cutting machine	346,210	July 27	2010	518 / 519	36	385
Marter, George W., *et al.* (See Lappin, Frank, assignor.) (Reissue.)						
Martin, George W., Lafayette, Ind. Flood-fence	354,201	Dec. 14	818	217	37	1163
Martin, Giles R. (See McCormic, James F., assignor.)						
Martin, Henry, Lancaster, Pa. Brick-machine	346,931	Aug. 10	622	167	36	588
Martin, James B. (See Gardner, Patrick P., assignor.)						
Martin, James B. (See Proctor and Martin.)						
Martin, James B., Carrollton, Ga. Farm-gate	341,590	May 11	863	230	35	673
Martin, Joanna. (See Martin, Richard M., assignor.)						
Martin, John H., *et al.* (See Black, Henry, assignor.)						
Martin, John H., *et al.* (See Black and Miller, assignors.)						
Martin, John H., *et al.* (See Murray, James H., assignor.)						
Martin, John H., Warwick, R. I. Bolster for spinning-spindles	347,814	Aug. 24	1896	505	36	840
Martin, John R. (See Herrington, William K., assignor.)						
Martin, John T., Elk Ridge, Md. Pea-planter	355,273	Dec. 28	2352	619	37	1468
Martin, Joseph C., Florence, Mass. Cash-carrier	334,599	Jan. 19	1562	417	34	303
Martin Manufacturing Company. (See Martin, Thomas F., assignor.)						
Martin, Max, *et al.* (See Borgfeldt, Nicholas H., assignor.)						
Martin, Max, *et al.* (See Borgfeldt and Schutz, assignors.)						
Martin, Morris, Malden, Mass. Thermostatic circuit-controlling device	342,114	May 18	1577	421	35	817
Martin, Peter N., Madalin, N. Y. Operating mechanism for railway-signals	343,329	June 8	824	206 / 207	35	1163
Martin, Richard M., assignor to J. Martin, Minneapolis, Minn. Blind-slat adjuster	337,275	Mar. 2	530	139	34	1024
Martin, Robert H., Brooklyn, N. Y. Asbestus sheet	354,158	Dec. 14	751	202	37	1150
Martin, Samuel, Mill Rock, Ohio. Velocipede	340,340	Apr. 20	1783	456 / 457	35	332
Martin, Samuel, Montpelier, Ohio. Scaffolding-bracket	352,420	Nov. 9	986	265	37	650
Martin, Samuel W., Springfield, Ohio. Pump	339,445	Apr. 6	475	115	35	88
Martin, Samuel W., assignor to Mast, Foos & Co., Springfield, Ohio. Pump	354,920	Dec. 28	1850	489	37	1371
Martin, Stephen, Birchfield Road, Lozells, near Birmingham, county of Warwick, England. Velocipede	339,446	Apr. 6	476	116 / 117	35	89
Martin, Stephen J. (See Walsh and Martin.)						
Martin, Taylor, Sturm's Mill, W. Va. Washing-machine	334,598	Jan. 19	1561	417	34	303
Martin, Thomas F., Newburg, assignor to Martin Manufacturing Company, New York, N. Y. Gas-making apparatus	334,137	Jan. 12	879	241	34	171
Martin, Walter T., Danvers, Mass. Boot or shoe	351,186	Oct. 19	1554	407	37	298
Martin, Walter T., Danvers, Mass. Boot or shoe	351,187	Oct. 19	1555	408	37	298
Martinez, Frederic F., Jr. (See Given and Martinez.)						
Martini, Frederick W., Brooklyn, N. Y. Picture-exhibitor	349,114	Sept. 14	800	203	36	1197
Martius, C. Alexander, Berlin, assignor to Farbfabriken, formerly Brönner, Frankfort-on-the-Main, Prussia, Germany. Manufacture of archil-red azo colors	334,257	Jan. 12	1100	.....	34	212
Martius, Carl A., Berlin, Germany. Producing mixed azo colors	344,971	July 6	239	.....	36	43
Marty, Auguste, Vera Cruz, Mexico. Ship	346,211	July 27	2011	519	36	385

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Marty, John M., Cleveland, Ohio. Injector	341,029	May 4	77	21	35	519
Marty, John M., Cleveland, Ohio. Injector	341,030	May 4	78	31	35	519
Martyn, Edward J. (See Riordan and Martyn.)						
Martzolf, Christian, Newport, Ky. Weather-strip	344,284	June 22	2163	554	35	1421
Marvil, Joshua H., Laurel, Del. Cover for fruit-baskets	338,179	Mar. 16	1757	459	34	1258
Marvil, Joshua H., Laurel, Del. Basket-cover	350,376	Oct. 5	365	105	37	74
Marvil, Joshua H., Laurel, Del. Basket-cover	350,377	Oct. 5	366	105	37	74
Marvin, Charles F., Washington, D. C. Photographic shutter	339,910	Apr. 13	1166	290	35	215
Marvin, George A., assignor of one-half to C. S. King, Seneca, Kans. Tongue-support	341,854	May 11	1215	325	35	743
Marvin, George E., *et al.* (See Bogan, James F., assignor.)						
Marvine, George E. (See Johnson and Mann, assignors.)						
Marx, Carl, Dresden, Saxony, Germany. Double sounding-board for pianos	343,644	June 15	1277	321	35	1252
Marx, Joseph. (See Mueller and Marx.)						
Marx, Marcus, Brooklyn, N. Y. Box	354,159	Dec. 14	751	202	37	1150
Marx, Philipp, assignor to L. Schlesinger & Co., New York, N. Y. Flour-sifter	344,972	July 6	240	61	36	43
Maschmeyer, George W. (See Logan, William B., assignor.)						
Maser, Micheal, Mount Carmel, Ill. Sash-fastener	346,488	Aug. 3	49	13	36	469
Mash, Nelson T., Chicopee Falls, Mass. Finishing imperfectly-woven cloth	350,008	Sept. 28	2024	.....	36	1449
Maske, Robert W., assignor to W. Deering & Co., Chicago, Ill. Grain-binder	347,815	Aug. 24	1897	505, 506	36	840
Mason, Allan. (See Grant and Mason.)						
Mason, Alvin C., Hyde Park, Ill. Stove and range door	334,258	Jan. 12	1101	295	34	212
Mason, Carlile, and A. Miller, Chicago, Ill. Steam-generator and furnace	347,816	Aug. 24	1898	506	36	840
Mason, Charles T., Jr., Sumter, S. C. Cotton-harvesting machine	337,007	Mar. 2	170	45, 46	34	956
Mason, Charles T., Jr., Sumter, S. C., assignor to Cotton Harvester Company. Cotton-harvester	345,246	July 6	614	156, 157	36	111
Mason, Charles T., Jr., Sumter, S. C., assignor to Mason Cotton Harvester Company. Making cotton-picker stems	345,312	July 13	714	180	36	134
Mason, Charles T., Jr., Sumter, S. C., assignor to Mason Cotton Harvester Company. Cutting V-shaped slots in sheet metal	354,202	Dec. 14	819	217	37	1163
Mason & Co., J. W. (See Mason, Joel W., assignor.)						
Mason Cotton Harvester Company. (See Mason, Charles T., Jr., assignor.)						
Mason, George A., 109 Farringdon Road, county of Middlesex, England. Short-circuiting device for magneto-calls	339,672	Apr. 13	853	209	35	157
Mason, George W., assignor of one-half to O. Knight, Washington, D. C. Dish-washing mop	333,650	Jan. 5	199	55	34	39
Mason, Horatio H. (See Emerson, Richard, assignor.)						
Mason, Howell R., Chelsea, assignor to American Bell Telephone Company, Boston, Mass Manufacture of electrical conductors	334,450	Jan. 19	1354	367	34	265
Mason, James H., assignor of one-half to A. B. Simmons, Springfield, Ark. Cultivator	347,725	Aug. 17	1766	471	36	807
Mason, Joel W., assignor to J. W. Mason & Co., New York, N. Y. Folding chair	345,710	July 20	1308	338	36	249
Mason, Lewellyn, *et al.* (See Kirby, James A., assignor.)						
Mason, Lovane, Hartland, N. Y. Thill-coupling	354,160	Dec. 14	752	202	37	1150
Mason, Lyman S. (See Allen and Mason.)						
Mason Regulator Company. (See Mason, William B., assignor.)						
Mason, Richard, Hemsworth, near Pontefract, county of York, England. Window	339,447	Apr. 6	479	117	35	89
Mason, Samuel D., Attleborough Falls, Mass. Bracelet	354,716	Dec. 21	1557	412, 413	37	1304
Mason, Thornton & Romanze. (See Romanze, Otto, assignor.) (Reissue.)						
Mason, William, Puyallup, Wash. Ter. Gate	343,382	June 8	911	228	35	1180
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Magazine fire-arm	343,470	June 8	1040	259	35	1202
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Magazine fire-arm	354,327	Dec. 14	999	265, 266	37	1195
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Magazine fire-arm	354,328	Dec. 14	1002	266	37	1195
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Magazine fire-arm	354,329	Dec. 14	1004	266, 267	37	1196
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Magazine fire-arm	354,427	Dec. 14	1123	301	37	1219
Mason, William B., assignor to Mason Regulator Company, Boston, Mass. Steam-pump pressure-regulator	334,079	Jan. 12	808	222	34	158
Mason, William B., assignor to Mason Regulator Company, Boston, Mass. Steam-pump pressure-regulator	334,080	Jan. 12	812	222	34	158
Mason, William B., assignor to Mason Regulator Company, Boston, Mass. Steam-trap	338,854	Mar. 30	2698	710	34	1499
Mason, William P., Boston, E. J. Wescott, Hyde Park, and W. L. Stevens, Boston, Mass. Apparatus for indicating the speed of shafting, machinery, &c	334,960	Jan. 26	2035	543, 544	34	398
Mason, Worden B. (See Anderson, James L., assignor.)						
Masse, Francis M., Buffalo, N. Y. Trunk-strap	336,580	Feb. 23	2134	559	34	839
Massey, Albert P., assignor to Eames Vacuum Brake Company, Watertown, N. Y. Automatic car-brake	351,786	Nov. 2	82	23	37	473
Massicotte, Narcisse, Hartford, Conn. Washing-machine	340,590	Apr. 27	2140	553	35	404
Mast & Co., P. P. (See Mast, Phineas P., assignor.)						
Mast & Company, P. P. (See Startzman and Crain, assignors.)						
Mast, Foos & Co. (See Martin, Samuel W., assignor.)						
Mast, L. Lavake, West Milton, Ohio. Weather-strip	347,493	Aug. 17	1425	379	36	743
Mast, Phineas P., assignor to P. P. Mast & Co., Springfield, Ohio. Cultivator	354,717	Dec. 21	1558	413	37	1304
Masten, Alanson T., Shiloh, Iowa. Four-horse evener	346,932	Aug. 10	623	167	36	588
Master, John E., Flushing, N. Y. Device for securing scarf-pins	345,794	July 20	1433	371	36	270
Masterman, James S., Chicago, Ill. Reversing mechanism for machinery	341,491	May 11	720	194	35	646
Masterman, William H., Newark, assignor of one-sixth to A. H. Walker, Oakland, Cal. Car-brake	333,874	Jan. 5	516	141	34	96
Masters, David L., and J. B. Corey, Braddock, Pa. Applying motive power	340,229	Apr. 20	1626	412	35	303
Masters, Frank A., Troy, N. Y. Refrigerator	348,404	Aug. 31	2741	736	36	1004
Mather Electric Company. (See Mather, Richard H., assignor.)						
Mather, Richard, Windsor, Conn. Rheostat	347,120	Aug. 10	890	236	36	637
Mather, Richard H. (See Van Depoele, Charles J., assignor.)						
Mather, Richard H., Windsor, Conn. Regulator for dynamo-electric machines	337,778	Mar. 9	1198	311	34	1147
Mather, Richard H., Windsor, Conn. Electric-current indicator	351,388	Oct. 26	1834	481, 482	37	354
Mather, Richard H., Windsor, Conn. Dynamo-electric machine	353,151	Nov. 23	1991	532	37	856
Mather, Richard H., Windsor, Conn. Electrical distributer	354,606	Dec. 21	1406	372, 373	37	1276
Mather, Richard H., Windsor, assignor to Mather Electric Company, Manchester, Conn. Regulator for dynamo-electric machines	334,712	Jan. 19	1721	459	34	332

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Mather, William, Salford, county of Lancaster, England. Bleaching	333,875	Jan. 5	517	.....	34	96
Mather, William, Salford, county of Lancaster, England. Apparatus for treating textile materials with liquids, gases, or vapors	333,876	Jan. 5	517	141	34	96
Mather, William, Manchester, county of Lancaster, England. Machine for printing samples on textile fabrics	339,448	Apr. 6	480	117	35	89
Matherson, Peter C., Brooklyn, assignor of one-fourth to A. F. Scott, New York, N. Y. Pruning-shears	340,230	Apr. 20	1627	412	35	303
Matheson, George N. (See Hendray, Thomas, assignor.)						
Matheson, William J. (See Herrmann, Charles, assignor.)						
Mathews, Benjamin F., San Bernardino, Cal. Washing-machine	351,062	Oct. 19	1383	363	37	265
Mathews, Joseph H., Canton, Ohio. Desulphurizing gold and silver ores	334,961	Jan. 26	2037	544	34	398
Mathews, William, Llano, Tex. Nail-receptacle	352,925	Nov. 23	1655	445	37	793
Mathewson, Albert H. (See Morgan, Hubert W., assignor.)						
Mathewson, Sebra R., assignor of one-half to J. E. Kinkade, Portersville, Cal. Link cable for street-railways	342,803	June 1	40	11	35	1013
Mathewson, Sebra R., Pleasant Valley, assignor of one-half to R. Baker, Portersville, Cal. Saw-gummer	345,388	July 13	813	205	36	152
Mathey, Henry, assignor to H. G. Bond, New York, N. Y. Manufacture of cements	339,673	Apr. 13	854	.....	35	157
Mathey, Henry, assignor to J. F. Navarro, New York, N. Y. Manufacture of hydraulic cement	343,182	June 8	599	.....	35	1125
Mathey, Henry, assignor to J. F. Navarro, New York, N. Y. Manufacture of hydraulic cement	343,183	June 8	600	.....	35	1125
Mathey, Henry, assignor to J. F. Navarro, New York, N. Y. Manufacture of hydraulic cement	343,184	June 8	601	.....	35	1125
Mathieu, Jean A., Detroit, Mich. Apparatus for distilling wood	344,917	July 6	170	44	36	31
Mathieu, Jean A., Detroit, Mich. Condenser for pyroligneous acid	354,330	Dec. 14	1007	2 7	37	1196
Mathison, Joseph, Lynn, Mass., assignor to Standard Button Fastening Company, Portland, Me. Machine for sewing on buttons	336,880	Feb. 23	2550	671, 672, 673	34	917
Mathison, Joseph, Lynn, Mass., assignor to Standard Button Fastening Company, Portland, Me. Machine for sewing on buttons	336,881	Feb. 23	2555	673, 674	34	917
Matlock, John N. (See Williams, Tompkins, and Matlock.)						
Matson, C. M., *et al.* (See Matson, Wilmarth P. and J. C., assignors.)						
Matson, James C. (See Matson, Wilmarth P. and J. C.)						
Matson, Wilmarth P. and J. C., assignors of one-half to C. M. Matson and D. L. Paine, Brookville, Pa. Alarm-lock	348,026	Aug. 24	2201	587	36	895
Mattes, William F., Scranton, Pa. Pump	336,654	Feb. 23	2250	586	34	859
Matteson, Don C., Stockton, Cal. Harvester	333,533	Jan. 5	50	15	34	12
Matteson, Eugene L., Wever, assignor of one-half to R. W. Curtis and J. B. Diver, Keokuk, Iowa. Car-coupling	334,962	Jan. 26	2039	544	34	398
Matteson, Rufus S., Providence, R. I. Evener for railway-heads, &c	352,701	Nov. 16	1360	367, 368	37	727
Matteson, Rufus S., assignor to Phenix Iron Foundry, Providence, R. I. Cloth-tentering machine	350,009	Sept. 28	2025	523	36	1449
Mattex, William C., *et al.* (See Belt, Samuel, assignor.)						
Matthai, Joseph F. (See Jacobs, Samuel, assignor.)						
Matthai, Richard, San Francisco, Cal. Animal-trap	350,261	Oct. 5	219	64	37	46
Matthes, Adolph, Cleveland, Ohio, and H. W. Lash, Pittsburg, Pa. Ingot-mold	342,920	June 1	206	53	35	1043
Matthes & Weber, E. (See Breuer, August, assignor.)						
Matthews, Ambrose T., assignor to Worcester Ferrule Company, Worcester, Mass. Stove-knob bottom	354,607	Dec. 21	1411	374	37	1276
Matthews, Cyrus, Anamosa, Iowa. Bread-toaster	354,562	Dec. 21	1329	352	37	1262
Matthews, Elizabeth, *et al.* (See O'Donnell, James D., assignor.)						
Matthews, George, *et al.* (See O'Donnell, James D., assignor.)						
Matthews, Henry A. (See Ireland, David M., assignor.)						
Matthews, Hugh W., Baltimore, Md. Corn and cane harvester	351,877	Nov. 2	212	60, 61	37	497
Matthews, Hugh W., Baltimore, Md. Cutting apparatus for corn and cane harvesters	351,878	Nov. 2	215	61	37	498
Matthews, James M., Pocahontas, Va. Miner's pick	354,331	Dec. 14	1008	267	37	1197
Matthews, John. (See Conner, Joseph, assignor.)						
Matthews, John. (See Matthews, Dyson, and Ormerod, assignors.)						
Matthews, John H., *et al.* (See O'Donnell, James D., assignor.)						
Matthews, John H., Brooklyn, T. Dyson, New York, and J. Ormerod, Brooklyn, assignors to J. Matthews, New York, N. Y. Cock for soda-water fountains	333,651	Jan. 5	200	55	34	39
Matthews, John W. (See Nye, William E., assignor.)						
Matthews, Robert, Green Bank, Hyde, county of Chester, England. Governor for steam-engines	351,188	Oct. 19	1555	408, 409	37	298
Matthews, William, assignor of one-fourth to W. Campbell, Sedalia, Mo. Tuck-folder for sewing-machines	333,877	Jan. 5	518	141	34	97
Matthias, Joseph, assignor to L. R. Matthias, New York, N. Y. Ironing-board	352,338	Nov. 9	886	238	37	629
Matthias, L. Rosie. (See Matthias, Joseph, assignor.)						
Matthias, William, and C. E. Rudolph, Colfax, Dak. Ter. Oat-hulling machine	346,933	Aug. 10	624	167, 168	36	589
Matthias, William, and C. E. Rudolph, Colfax, Dak. Ter. Oatmeal-machine	346,934	Aug. 10	625	168	36	589
Matthiessen, Franz O. (See Soxhlet, Franz, assignor.)						
Matthiessen, Franz O., Irvington, N. Y. Transforming soft sugar into hard block sugar	333,652	Jan. 5	202	.....	34	40
Matthiessen, Franz O., Irvington, N. Y. Bone-black discharger for continuous filters	335,602	Feb. 9	724	193	34	577
Matthiessen, Franz O., Irvington, N. Y. Bone-black discharger for continuous filters	335,603	Feb. 9	725	193, 194	34	577
Matthiessen, Franz O., Irvington, N. Y. Apparatus for decolorizing sugar-liquor by filtration through bone-black	335,763	Feb. 9	958	254	34	618
Matthiessen & Wiechers Sugar Refining Company, F. O. (See Howes, Robert C., assignor.)						
Matthiessen & Wiechers Sugar Refining Company, F. O. (See Quimby, Edward E., assignor.)						
Mattice, John C. (See Williams and Mattice.)						
Mattice, John C., Cohocton, N. Y. Potato-digger	349,166	Sept. 14	865	222	36	1210
Mattison, Richard V., *et al.* (See Hanmore, Hiram M., assignor.)						
Matzke, Otto, Gunnison, Colo. Dry ore amalgamator and separator	349,442	Sept. 21	1243	322	36	1291
Mauchain, Armand, Geneva, Switzerland. Adjustable desk and seat for same	340,341	Apr. 20	1786	457, 458	35	333
Mauerman, William, Philadelphia, Pa. Oil-stove	344,587	June 29	2575	667	35	1504
Mauk, William G., Basil, Ohio. Hitching device	334,963	Jan. 26	2040	545	34	398
Maule, Francis I., Philadelphia, Pa. Pipe-coupling	340,801	Apr. 27	2433	640	35	455
Maull, Charles, St. Louis, Mo. Making potato-meal	345,159	July 6	500	.....	36	91

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Maultby, William E., Cheboygan, Mich., assignor to Oneida Community, (limited,) Community, N. Y. Animal-trap	334,259	Jan. 12	1102	295	34	212
Maurer, William F., Harmony, Ind. Shoe	343,047	June 1	386	98	35	1076
Maurice, J. L., *et al.* (See Furey, Cyrus R., assignor.)						
Maver, William, Jr., Jersey City, N. J. Multiple telegraphic repeater	339,449	Apr. 6	482	118	35	89
Maver, William, Jr., Jersey City, N. J., assignor to Baltimore and Ohio Telegraph Company, Baltimore, Md. Branch circuit for quadruplex telegraphs	338,996	Mar. 30	2905	770	34	1475
Maver, William, Jr., Jersey City, N. J., assignor to Baltimore and Ohio Telegraph Company, Baltimore, Md. Local circuit for quadruplex telegraphs	340,136	Apr. 20	1481	374	35	276
Maver, William, Jr., Jersey City, N. J., assignor to Baltimore and Ohio Telegraph Company, Baltimore, Md. Branch circuit for quadruplex telegraphs	340,137	Apr. 20	1483	375	35	277
Maver, William, Jr., Jersey City, N. J., assignor to Baltimore and Ohio Telegraph Company, Baltimore, Md. Quadruplex telegraph	349,945	Sept. 28	1936	500	36	1432
Maves, Charlies C., East Davenport, Iowa. Potato-planter	344,535	June 29	2514	648, 649	35	1491
Maves, Charlies C., deceased, (John H. Maves, administrator,) East Davenport, Iowa. Potato-planter	354,428	Dec. 14	1124	301, 302	37	1219
Maves, John H., administrator. (See Maves, Charlies C.)						
Maxey, Thomas W., Nevada, Mo. Adding-machine	335,374	Feb. 2	404	104	34	514
Maxim, Hiram S., London, England. Recoil mechanism for guns	347,945	Aug. 24	2090	555, 556	36	875
Maxon, Samuel L. (See McClure, Albert E., assignor.)						
Maxon, Thomas, assignor of one-half to J. W. Carpenter, Dayton, Ohio. Lifting-jack	333,878	Jan. 5	521	142	34	97
Maxson, A. S. (See Babcock, E. Stillman, assignor.)						
Maxson, Charles B., Westerly, R. I. Sheet-delivery apparatus for printing-machines	333,879	Jan. 5	522	142	34	97
Maxson, Charles B., Westerly, R. I. Sheet-delivery apparatus for printing-machines	334,964	Jan. 26	2042	545	34	399
Maxson, Charles B., Westerly, R. I. Mechanical movement	339,912	Apr. 13	1169	291	35	215
Maxson, Charles B., Westerly, R. I. Sheet-delivery apparatus for printing-machines	351,991	Nov. 2	387	105	37	530
Maxson, William M., Akron, Ohio. Shoe-fastening	346,119	July 27	1872	483	36	359
Maxwell, Charles C., Watertown, Dak. Ter. Washing-machine	335,945	Feb. 9	1214	323	34	665
Maxwell, Elmer R., Bolivar, N. Y. Piston-packing for deep-well pumps	348,027	Aug. 24	2204	588	36	895
Maxwell, Frank A., *et al.* (See Carpenter, Frank R., assignor.)						
Maxwell, John, Oneida, N. Y. Cloth-covered molding	337,008	Mar. 2	176	46	34	957
Maxwell, John, Oneida, N. Y. Coffin	337,009	Mar. 2	176	46	34	957
Maxwell, John, Oneida, N. Y. Coffin	338,855	Mar. 30	2700	711	34	1439
Maxwell, John, Oneida, N. Y. Coffin	341,260	May 4	405	111	35	579
Maxwell, John, Denver, Colo. Machine for making nuts	345,795	July 20	1435	371	36	271
Maxwell, John A., Calvary, Ga. Fertilizer-distributer	351,189	Oct. 19	1557	409	37	299
Maxwell, Joseph W., Louisville, Ky. Band-saw mill	339,797	Apr. 13	1020	252	35	186
Maxwell, Marvin R., Peoria, Ill. Coat-hanger	337,345	Mar. 2	620	163	34	1040
Maxwell & Mowry. (See Kitchel, Lyman B., assignor.)						
Maxwell, Singleton A., Alpharetta, Ga. Gin-saw grummer	352,550	Nov. 16	1146	310	37	687
May, Benjamin, Moseley, county of Worcester, assignor to W. Powell, Birmingham, England. Match-box	345,914	July 20	1600	412	36	30'
May, Charles, Sunbury, Pa. Lock for reverse and throttle levers	348,681	Sept. 7	208	55	36	1085
May, Eli P. (See Bowers, Cile W., assignor.)						
May, Horatio N. (See Munsie, James F., assignor.)						
May, Isaac, Brooklyn, N. Y. Switch and signal lock	347,494	Aug. 17	1426	379	36	744
May, John L., Martinsburg, Pa. Reclining-chair	349,508	Sept. 21	1334	346	36	1310
May, Leander, Lock Haven, Pa. Kitchen-cabinet	334,260	Jan. 12	1103	295	34	212
May, Thomas J., *et al.* (See Sharp, Taylor E., assignor.)						
May, William D., Philadelphia, Pa. Device for cooling the cylinders of compressors for air and other gases	354,563	Dec. 21	1329	353	37	1262
Mayberry, Lemuel L., Bristow, Iowa. Harvester-elevator	351,190	Oct. 19	1558	410	37	299
Mayberry, William W., Bristow, Iowa. Cord-holder for grain-binders	351,643	Oct. 26	2241	580	37	428
Mayer, A. M. (See Mayer, Herman, assignor.)						
Mayer, Alexander, *et al.* (See Boehm, Alexander, assignor.)						
Mayer, Alfred M., South Orange, N. J. Heliostat	333,769	Jan. 5	373	101, 102	34	70
Mayer, Charles G. (See Ehlermann and Mayer.)						
Mayer, Charles G., Nauvoo, Ill. Gas-pump	350,378	Oct. 5	367	105	37	74
Mayer, Edward. (See Jones, Marcus R., assignor.)						
Mayer, Herman, assignor of one-half to A. M. Mayer, Bradford, Pa. Stock-record	345,519	July 13	1005	255	36	187
Mayer, Jacob, *et al.* (See Collins, George E., assignor.)						
Mayer, Jacob J. (See Collins and Weatherhead, assignors.)						
Mayer, Joseph, Yonkers, N. Y. Galvanic body-wear	334,879	Jan. 26	1934	515	34	379
Mayer, Julius C., Cleveland, Ohio. Curtain-fixture	344,846	July 6	69	17	36	13
Mayer, Rudolph. (See Holtzmann and Mayer.)						
Mayerhoff, Julius, Carthage, Mo. Perforating-type and overlay	339,798	Apr. 13	1022	252, 253	35	187
Mayers, Wilbur S., Fort Apache, Ariz. Ter. Water-level indicator	344,121	June 22	1936	495	35	1380
Mayfield, Daniel D., Sullivan, Ind. Weather-strip	345,597	July 13	1140	291	36	211
Mayfield, Isaac T., *et al.* (See Mayfield, William D., assignor.)						
Mayfield, Washington B., assignor to himself and H. Dustin, South West City, Mo. Fruit-picker	347,495	Aug. 17	1427	379	36	744
Mayfield, William D., assignor to W. F. and T. T. Mayfield, Fort Worth, Tex. Mechanical dentistry	341,929	May 18	1320	353	35	770
Mayfield, William F., *et al.* (See Mayfield, William D., assignor.)						
Mayhew, Theophilus, New York, N. Y. Transom-lifter	348,226	Aug. 31	2504	673	36	957
Mayhew, Theophilus, New York, N. Y. Receptacle for poisons	348,227	Aug. 31	2505	673, 674	36	957
Maynard, C. S. (See Stanton, Bradley W., assignor.)						
Maynard, C. S. (See White, Henry P., assignor.)						
Maynard, Edward, Washington, D. C. Cartridge-index for magazine-guns	343,471	June 8	1042	260	35	1203
Maynard, John M., Hickory, assignor of three-fourths to C. E. Ward, Green Level, N. C. Machine for marking or laying out mortises	348,028	Aug. 24	2205	588	36	895
Maynard, Washington, Assumption, Ill. Grafting implement	351,879	Nov. 2	216	61	37	498
Mayo Electric Manufacturing Company. (See Mayo, George A., assignor.)						
Mayo, George A., Lynn, assignor, by mesne assignments, to Mayo Electric Manufacturing Company, Boston, Mass. Electric lamp	338,352	Mar. 23	1988	523	34	1307
Mayor, William R., Pawtucket, R. I. Spinning-mule	346,298	July 27	2130	548, 549	36	408
Mayr, Frank, South Bend, Ind. Watch-case	339,450	Apr. 6	486	118	35	90
Mays, Charles, and W. P. Pepys, London, England. Glove	342,833	June 1	84	21	35	1022

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Mazoyer, Jean L., New York, N. Y. Ironing-machine	352,702	Nov. 16	1363	368	37	728
McAdam, Alexander J., San Francisco, Cal. Elevator	347,433	Aug. 17	1330	354 355	36	726
McAdams, George B. (See Walter, Willie C., assignor.)						
McAdams, John, Boston, Mass. Paper-ruling machine	349,167	Sept. 14	867	222	36	1210
McAleenan, Michael, Peoria, Ill. Pulley	342,804	June 1	41	11	35	1014
McAleer, Peter, Altoona, and J. K. Johnston, Jefferson County, assignors of one-third to S. Simon, Philadelphia, Pa. Car-coupling	339,568	Apr. 6	675	165	35	122
McAllister, Daniel, assignor of one-half to W. and J. F. W. Lefmann, St. Louis, Mo. Pedestal and axle-box for cars	350,010	Sept. 28	2027	523	36	1449
McAllister, James A., Fredericton, New Brunswick, Canada. Duplex brick	339,799	Apr. 13	1023	253	35	187
McAllister, Norman H., Cleveland, Ohio. Wire-and-picket fence	342,619	May 25	2310	610	35	957
McAllister, Randall L. (See Desmond and McAllister.)						
McAllister, Thomas H., New York, N. Y. Lamp for magic lanterns	339,451	Apr. 6	487	118 119	35	90
McAndrews, William H., Youngstown, Ohio. Drill	353,323	Nov. 30	2230	597	37	908
McAneny, Michael, and W. L. Rieley, assignors of one-half to W. Thompson and J. Livezey, Jr., Denver, Colo. Ore-concentrator	338,856	Mar. 30	2702	711	34	1439
McAnlis, James D., Beaver Falls, Pa. Ditching-machine	351,930	Nov. 2	295	81, 82	37	511
McArdell, John W., Brooklyn, N. Y. Flushing device	348,682	Sept. 7	210	55	36	1085
McArdle, Frank, assignor to M. H. Hagerty, Brooklyn, N. Y. Vent-faucet for bottles	342,450	May 25	2061	544	35	912
McArdle, Henry J., Philadelphia, Pa. Traveling suspension-truck	337,179	Mar. 2	462	104	34	1000
McArthur, Alexander, Aledo, Ill. Warm fresh air ventilator	354,161	Dec. 14	753	202 203	37	1150
McArthur, Duncan, New Haven, Conn. Micrometer-calipers	343,478	June 8	1050	261 262	35	1204
McArthur, E. (See Kranz, John A., assignor.)						
McArthur, James, Rochester, N. Y. Sash-balance	354,162	Dec. 14	755	203	37	1151
McArthur, Jerome, Mount Morris, N. Y. Paint composition	338,540	Mar. 23	2244	.....	34	1352
McAuliffe, John, Jersey City, N. J. Parasol for children's carriages	330,262	Oct. 5	220	64	37	46
McAvoy, Anthony, Racine, Wis. Road-cart	352,830	Nov. 16	1523	410	37	758
McBride, Andrew. (See Livingston and McBride.)						
McBride, Charles, Victor, Iowa. Spade	337,602	Mar. 9	983	252	34	1110
McBride, Charles O., Muscatine, Iowa. Nut-lock	354,332	Dec. 14	1009	267	37	1197
McBride, James, Bavington, Pa. Washing-machine	337,603	Mar. 9	983	252	34	1110
McBride, Patrick V, Charleston, S. C. Truck	347,186	Aug. 10	983	262 263	36	654
McCaffrey, James, assignor of one-half to J. Forrest, Philadelphia, Pa. Safety water-gage	349,509	Sept. 21	1335	346	36	1310
McCaleb, John L., Benton, Tex. Measuring-wheel	344,536	June 29	2517	649	35	1492
McCall, Angus D., Laurinburg, N. C. Sash-fastener	336,932	Mar. 2	67	18	34	939
McCall, William H., assignor of one-half to O. H. and W. G. Eddy, Greenwich, N. Y. Potato-digging machine	334,456	Jan. 19	1367	370	34	268
McCallip, William W., Columbus, Ohio. Fence-post	342,027	May 18	1446	387	35	793
McCallister, Earl S., and W. Hoagland, Elgin, assignors, by mesne assignments, to said McCallister and J. B. and R. P. Lane, Rockford, Ill. Washing-machine	350,758	Oct. 12	923	249	37	175
McCallum, James, Elgin, Ill. Vehicle-wheel	352,551	Nov. 16	1147	310	37	688
McCan, David G. (See Reno, Zachary T., assignor.)						
McCance, David, assignor to Hanford, Peckham & McCance Company, Newark, N. J. Rein-holder	337,414	Mar. 9	724	188	34	1065
McCandless, Albert I., Vining, Kans. Listed-corn cultivator	339,452	Apr. 6	488	119	35	91
McCandless, John C., and O. King, Randolph, Kans. Cultivator	352,703	Nov. 16	1364	368 369	37	728
McCandlish, James M., Bradford, Pa. Drill-jar	338,857	Mar. 30	2703	711	34	1440
McCann, J. C. (See Ferris and Kipp, assignors.)						
McCann, James D., Falls City, Nebr. Measure for drafting garments	334,457	Jan. 19	1368	370	34	268
McCann, John, Jersey City, N. J. Air-heating apparatus for drying rooms	341,591	May 11	864	230	35	673
McCann, William E., McGregor, Tex. Harrow	344,665	June 29	2677	693	35	1525
McCarron, Edward F., St. Louis, Mo. Metallic picket-fence	352,339	Nov. 9	888	238	37	630
McCarter, John G. (See Woodley, Thomas E., assignor.)						
McCarter, Samuel. (See Asper, Benjamin F., assignor.)						
McCarter, Samuel, Norristown, assignor of one-half to B. F. Asper, Pittsburg, Pa. Mining-machine	349,731	Sept. 28	1650	426	36	1376
McCarthy, John I., Olean, N. Y. Sash-balance	343,190	June 8	606	150	35	1126
McCarthy, M. Jennie, Cambridgeport, assignor to Standard Rubber Company, Boston, Mass. Gossamer cloak	353,954	Dec. 7	441	120	37	1087
McCarthy, Oliver, assignor to Meriden Britannia Company, Meriden, Conn. Ornamental nail for coffins	348,030	Aug. 24	2208	589	36	896
McCartney, Bernard T. (See Sasse, Francis, assignor.)						
McCarty, Benjamin W., and F. P. Gagra, Tex. Support for coffee-mills	348,984	Sept. 14	610	161	36	1165
McCarty, Cornelius M., assignor to J. Wirgman, Jr., Romney, W. Va. Door check and holder	348,031	Aug. 24	2209	590	36	896
McCarty, Harry C., Williamsport, assignor of one-half to J. F. Bickel, Morton, Pa. Car-truck	339,913	Apr. 13	1171	291	35	215
McCarty, Lewis C., Noblesville, assignor of one-half to J. E. Demoret, Fisher's Switch, Ind. Combined hay rake and loader	347,726	Aug. 17	1767	471 472	36	807
McCarty, Norman. (See Mackie and McCarty.)						
McCarty, Norman, Hoosick, N. Y. Arc lamp	344,188	June 22	2028	519	35	1397
McCarty, Norman, assignor to J. B. Tibbits, Hoosick, N. Y. Circuit-connection for dynamo-electric machines	337,010	Mar. 2	178	47	34	957
McCarty, Richard J. Kansas City, Mo. Velocimeter	353,152	Nov. 23	1992	533 534	37	856
McCarty, Thomas D., and F. C. Sawhill, Midway, Pa. Pipe-wrench	346,299	July 27	2132	549	36	408
McCarty, Thomas D., and F. C. Sawhill, Midway, Pa. Pipe-wrench	354,718	Dec. 21	1560	414	37	1305
McCarty, William F. M., Philadelphia, Pa., assignor to J. Logan, Hagerstown, Md., A. Ohl and B. C. Lauth, Philadelphia, Pa. Manufacturing heating and illuminating gas	343,524	June 8	1101	277	35	1214
McCarty, William F. M., Philadelphia, Pa., assignor to J. Logan, Hagerstown, Md., A. Ohl and B. C. Lauth, Philadelphia, Pa. Apparatus for the manufacture of gas	343,525	June 8	1102	277	35	1214
McCarty, William F. C. M., Pittsburg, assignor, by mesne assignments, of one-half to A. Ohl and B. C. Lauth, Philadelphia, Pa. Manufacturing hydrocarbon gas. (Reissue)	10,757	Aug. 17	1817	483 484	36	816
McCauley, John C. F., Crooked Creek, Kans. Car-coupling	337,847	Mar. 16	1297	337	34	1171
McCauley, John C. F., Crooked Creek, Kans. Car-coupling	341,492	May 11	723	194	35	646
McCauley, Patrick, assignor of one-half to B. P. McKenna, Braddock, Pa. Expansible auger	338,997	Mar. 30	2906	770	34	1475
McCauley, Reuben A, Baltimore, Md. Dumping-wagon	341,592	May 11	865	230	35	674
McCausland, George H., Philadelphia, Pa. Cop-winding machine	352,704	Nov. 16	1365	369	37	728

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
McCausland, William J., Philadelphia, Pa. Printing-telegraph receiver	339,312	Apr. 6	282	71	35	53
McChesney, Henry J., *et al.* (See Higley, Asa S., assignor.)						
McChristian, Edward, assignor to Superior Drill Company, Springfield, Ohio. Horse hay-fork	348,853	Sept. 7	416	112	36	1124
McClain, Edward L. (See Robbins, Edward P., assignor.)						
McClain, George M., Rockport, Mass. Catch for fishing-seines	343,479	June 8	1053	262	35	1205
McClain, Robert T. (See McCormick and McClain.)						
McClellan, Ezra S., Paterson, N. J. Trap for baths, basins, &c	334,129	Jan. 12	881	241	34	171
McClellan, Ezra S., Paterson, N. J. Air-inlet and seal for waste-pipes and traps	339,800	Apr. 13	1023	253	35	187
McClellan, Oscar D., assignor to A. Wasserman, Philadelphia, Pa. Gas-burner	336,418	Feb. 16	1916	502	34	795
McClelland, Robert E., Williamsville, Ill. Wagon-brake	336,127	Feb. 16	1475	389	34	718
McClinchie, Uriah, and J. F. Butler, New York, N. Y. Child's carriage	338,998	Mar. 30	2908	770	34	1476
McClintock, John M. (See Richardson, William H., assignor.)						
McClintock, Maria R., Abbyville, Va. Coin-holder	345,520	July 13	1006	255	36	187
McCloskey, Charles C., Jr., Detroit, Mich. Grate for fire-places	342,115	May 18	1578	421	35	817
McCloud, Sidney, assignor of one-half to C. E. Doolittle, trustee, Hamilton, Ontario, Canada. Roll for reducing old rails	350,833	Oct. 12	1041	278	37	197
McCloy, Eli C., Mount Vernon, Ohio. Gas-regulator	338,422	Mar. 23	2090	547	34	1325
McClure, Alexander W., Chicago, Ill. Velocipede	342,620	May 25	2311	610, 611	35	957
McClure, Albert E., assignor of one-fourth to S. L. Maxon, Sedalia, Mo. Rope-clamp	345,313	July 13	715	180	36	135
McClure, Charles E. (See Eads, John B., assignor.)						
McClure, James, *et al.* (See Bippus, Ferdinand G., assignor.)						
McClure, John, Indian Grove, Mo. Washing-machine	338,671	Mar. 23	2427	640	34	1383
McClure, Thomas G. (See Lounis, Loira C., assignor.)						
McClurg, James. (See Jackson, William, assignor.)						
McColl, Gavin, and W. B. Cumming, Liverpool, county of Lancaster, England. Liquid rudder-brake	334,081	Jan. 12	814	223	34	159
McCollom, Charles A., and M. Forder, Dassel, Minn. Cockle-separator	336,655	Feb. 23	2251	586	34	859
McCollum, Henry. (See Crumbie, Alexander, assignor.)						
McComas, Arthur W., and H. A. Fitzhugh, Austin, Tex. Fan attachment for rocking furniture	336,128	Feb. 16	1476	390	34	718
McComas, Arthur W., and H. A. Fitzhugh, Austin, Tex. Portable fan and operating machinery for same	337,848	Mar. 16	1298	337	34	1172
McComas, William K. (See Avis, Samuel, assignor.)						
McCombs, George F., Allegheny, assignor to Hand Stitch Broom Sewing Machine Company, (limited,) Pittsburg, Pa. Broom-sewing machine	338,999	Mar. 30	2909	771, 772	34	1476
McConahy, James, New Castle, Pa. Holder for rings, bracelets, &c	354,799	Dec. 21	1676	443	37	1327
McConnaughay, Thomas J., Harrisonville, Mo. Rotary brush	345,854	July 20	1517	393	36	284
McConnell, A. N., *et al.* (See Whitney, Samuel C., assignor.)						
McConnell, Hugh, Cleveland, Ohio. Lamp-stove	347,187	Aug. 10	985	263	36	654
McConnell, Hugh, Cleveland, Ohio. Oil-stove	348,029	Aug. 24	2206	588, 589	36	896
McConnell, Hugh, assignor to Home Gas and Oil Stove Company, Detroit, Mich. Vapor-burning attachment for stoves	347,188	Aug. 10	986	263, 264	36	655
McConnell, Jacob, Liverpool, England. Turbine	349,510	Sept. 21	1336	347	36	1310
McConnell, John, Erie, Pa. Seal-trap for waste-pipes	353,577	Nov. 30	2600	694	37	977
McConnell, John M. (See McConnell, William R., assignor.)						
McConnell, Joseph. (See Miller and McConnell.)						
McConnell, Joseph F., and H. E. Harbster, Reading, Pa. Ice-creeper	344,666	June 29	2678	695	35	1525
McConnell, Robert F., Estillville, Va. Heel for boots and shoes	348,472	Aug. 31	2839	764	36	1023
McConnell, William, Philadelphia, Pa. Shutter-fastener	343,333	June 8	828	207	35	1163
McConnell, William, Philadelphia, Pa. Shutter-fastener	350,834	Oct. 12	1042	279	37	197
McConnel, William R., assignor of one-half to J. M. McConnell, Anderson, S. C. Sulky-cultivator	340,138	Apr. 20	1485	375	35	277
McConway, William, Pittsburg, Pa. Car-coupling	350,011	Sept. 28	2028	523, 524	36	1449
McCord, Andrew J., Louisville, Ky. Hame-fastener	351,788	Nov. 2	85	23	37	474
McCord, Henry H., St. Louis, Mo. Corn-planter	343,250	June 8	695	172	35	1141
McCorkle, Samuel B., assignor of one-fourth to C. A. Hoyt, Chattanooga, Tenn. Swing	334,965	Jan. 26	2043	545, 546	34	399
McCormack, Isidore B., Chicago, Ill. Apparatus for purifying water	341,672	May 11	979	259	35	696
McCormack, John H., Meriden, Conn. Steam-boiler	351,931	Nov. 2	298	82, 83	37	512
McCormic, James F., assignor of one-half to G. R. Martin, Marion, Iowa. Composition for marble or stone	339,569	Apr. 6	676	.....	35	122
McCormick, Francis J., Dayton, Ohio. Making paper-pulp	335,466	Feb. 2	524	.....	34	535
McCormick, George, and R. T. McClain, Fairfield, Iowa. Check-row corn-planter	347,362	Aug. 17	1237	329, 330	36	709
McCormick Harvesting Machine Company. (See Baker, William R., assignor.)						
McCormick Harvesting Machine Company. (See Baker and Pridmore, assignors.)						
McCormick Harvesting Machine Company. (See Pridmore, Henry E., assignor.)						
McCormick, James, Potsdam, N. Y. Toboggan	342,215	May 18	1693	451	35	840
McCormick, John H., assignor of one-half to W. M. Montgomery, New Orleans, La. Mail-bag lock	351,063	Oct. 19	1384	363	37	265
McCormick, John R., Austin, Tex. Spark-arrester	344,391	June 29	2312	596	35	1455
McCormick, Junius A. (See Schinneller, Jacob, assignor.)						
McCormick, Junius A., Pittsburg, Pa. System for conveying gas under pressure	335,467	Feb. 2	524	137	34	535
McCoy, Curtis, Greensburg, Ind. Tongue-support	345,521	July 13	1007	255	36	187
McCoy, Elijah, Pittsburg, Kans. Wagon-tongue support	350,937	Oct. 19	1175	312	37	228
McCoy, James S., Brooklyn, N. Y. Steam-engine	343,385	June 8	917	229	35	1181
McCoy, Oscar, Versailles, Ill., assignor of one-half to L. A. Allen, Laclede, Mo. Drying-shed for bricks, &c	337,180	Mar. 2	402	105	34	1000
McCoy, William J., Jeffersonville, Ind. Hose and pipe coupling	342,527	May 25	2179	577	35	932
McCracken, Edwin D., Alpine, N. J. Skirt	344,973	July 6	241	61	36	43
McCracken, Edwin D., Paterson, N. J. Electric conductor	351,191	Oct. 19	1559	410	37	299
McCracken, Edwin D., Paterson, N. J. Machinery for covering electrical conductors	351,192	Oct. 19	1560	410	37	299
McCracken, Edwin D., Paterson, N. J. Underground electric conductor	351,193	Oct. 19	1564	411	37	300
McCray, John H. B., Kellerville, Ill. Car-coupling	347,121	Aug. 10	892	236	36	637
McCray, Millard F., Glassville, Mo. Cultivator	334,181	Jan. 12	964	261	34	186
McCrea, James, Allegheny City, Pa. Signal for railway-crossings	351,456	Oct. 26	1958	510	37	375
McCreary, John, and D. R. Smith, Cohoes, N. Y. Machine for radial crimping	336,656	Feb. 23	2253	587, 588	34	860
McCreary, William L., *et al.* (See Steiger, Andrew W., assignor.)						
McCree, James, Lansing, Mich. Car-coupling	348,567	Sept. 7	46	13	36	1056

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
McCreedy, John W., *et al.* (See Platt, Mathias, assignor.)						
McCrory, William. (See Heintzelman, Taylor W., assignor.)						
McCrory, William. (See McGlauflin, Eugene O., assignor.)						
McCrory, William, Fayette City, assignor of one-half to C. Taylor, Elizabeth, Pa. Life-preserver	354,645	Dec. 21	1463	388	37	1286
McCrossin, Edward J. (See Floyd and McCrossin.)						
McCrossin, Patrick. (See Floyd and McCrossin, assignors.)						
McCrum, William, and R. F. Bruce, Detroit, Mich. Shoe-nailing machine	343,915	June 15	1637	419, 420	35	1320
McCullar, John J., Will's Point, Tex. Bee-hive	343,916	June 15	1640	420	35	1321
McCullough, James, Jersey City, N. J. Dredging-machine	336,248	Feb. 16	1683	439	34	751
McCullough, Lewis H., assignor to Richmond Fire Alarm Company, Richmond, Ind. Signaling apparatus for police-telegraphs	350,634	Oct. 12	759	208, 209	37	145
McCully, Robert, Philadelphia, Pa. Crushing-machine	318,757	Sept. 7	298	80	36	1103
McCully, Robert, Philadelphia, Pa. Crushing-machine	318,758	Sept. 7	302	80, 81	36	1103
McCune, James B., Wheeling, W. Va. Locomotive ash-pan	341,930	May 18	1320	353	35	770
McCune, Joseph B. (See Stiff and Watrous, assignors.)						
McCune, Joseph B., Chicopee, Mass. Wheel	334,393	Jan. 12	1272	343	34	243
McCury, Abraham T., Goodland, Ind. Combined folding bed	334,880	Jan. 26	1935	515	34	380
McCutchen, Charles W., Peekskill, N. Y. Oil-stove top	353,798	Dec. 7	204	54	37	1044
McCutcheon, Alexander T. (See McCutcheon, Nathan C. and A. T.)						
McCutcheon, John B., Battle Creek, Mich. Thrashing-machine	352,764	Nov. 16	1438	388	37	743
McCutcheon, Nathan C. and A. T., Springfield, Ohio. Remedy for kidney diseases	348,854	Sept. 7	418	.....	36	1125
McDannell, Otto C., Lowell, Mich. Stove-pipe thimble	335,291	Feb. 2	291	77	34	492
McDannold, Alexander, *et al.* (See Platt, Albert L., assignor.)						
McDermott, James, West, N. Y. Sickle-bar for harvesters	345,439	July 13	894	223	36	166
McDermott, Walter, Brick Church, N. J. Ore-sampling machine	354,203	Dec. 14	821	218	37	1164
McDonald, Alexander, Centralia, Ill. Combined plow and harrow	335,082	Jan. 26	2213	588	34	429
McDonald, Alexander, Cambridge, Mass. Napkin-pin	339,674	Apr 13	855	209	35	157
McDonald, Alexander R., Chicago, Ill. Combined ruler and paper-cutter	354,800	Dec. 21	1678	443	37	1327
McDonald, Charles A., and C. W. Townsend, Portland, Oreg.; said McDonald assignor of one-half to said Townsend. Damper-regulator for steam-boilers	334,600	Jan. 19	1564	418	34	304
McDonald, Charles A., and C. W. Townsend, Portland, Oreg.; said McDonald assignor of one-half to said Townsend. Damper-regulator	334,601	Jan. 19	1566	418	34	304
McDonald, Gilbert, Augusta, Kans. Combined punching and shearing device	336,335	Feb. 16	1862	471	34	774
McDonald, Gilbert, New Hampton, Iowa. Punching and shearing machine	343,917	June 15	1641	420	35	1321
McDonald, Harry P., Louisville, Ky. Drier	348,759	Sept. 7	304	81	36	1104
McDonald, Hiram W., Bucyrus, Ohio. Catch-basin inlet and cover for sewers	347,496	Aug. 17	1428	380	36	744
McDonald, James, and J. P. Courtney, Brooklyn, N. Y. Door-spring	351,457	Oct. 26	1961	510	37	376
McDonald, James L., assignor of one-half to J. A. Galvin, Steelton, Pa. Bag-fastener	343,918	June 15	1642	421	35	1321
McDonald, James W., assignor to himself and R. D. Bathgate, Winnipeg, Manitoba, Canada. Track-lifter	340,723	Apr. 27	2397	612, 613	35	435
McDonald, Samuel, Cochran's Mills, Pa. Feeding-stand for poultry	343,386	June 8	919	230	35	1181
McDonald, Theodore A., New Albany, Ind. Stamp or label holder, moistener, and affixer	342,451	May 25	2063	544	35	913
McDonald, William. (See Deutschbein, Joseph, assignor.)						
McDonald, William C., assignor, by mesne assignments, to said McDonald and A. F. Pierce, Reading, Mass. Life-preserver	346,599	Aug. 3	190	50	36	497
McDonald, William H. (See Little and McDonald.)						
McDonald, William T., New York, N. Y. Smoke-burning furnace for steam-boilers	344,537	June 29	2517	649	35	1492
McDonnell, James, Scranton, Pa. Bail-ear for pails	344,667	June 29	2680	696	35	1525
McDonough, Daniel, Eagle River, Wis. Combined saw setting and gumming tool	336,933	Mar. 2	68	18	34	939
McDonough, Henry H. (See Davis and McDonough.)						
McDonough, James W., New York, N. Y. Telephone-transmitter	353,694	Dec. 7	55	15	37	1017
McDonough, John. (See Cox and McDonough.)						
McDonough, John, and W. B. Cox, New York, N. Y. Ladder	354,333	Dec. 14	1010	.....	37	1197
McDonough, T. Milner, Pittsburg, Pa. Automatic horse-bed	337,070	Mar. 2	247	66	34	971
McDonough, T. Milner, Pittsburg, Pa. Manure-pouch	337,181	Mar. 2	404	105	34	1000
McDougal, James, Columbus, Ohio. Flanging-tool	344,588	June 29	2576	667	35	1504
McDougal, James D., assignor of one-half to W. R. Kinnear, Columbus, Ohio. Metal-cutting machine	354,334	Dec. 14	1012	268, 269	37	1198
McDougall, Samuel T., Brooklyn, N. Y. Fence-post	351,194	Oct. 19	1565	411	37	300
McDowell, Albert, New York, N. Y. Adjustable pattern for drafting garments	342,216	May 18	1694	452	35	840
McDowell, John H., R. W. Hudgins, and J. E. Moore, Union City, Tenn. Railway-gate	345,522	July 13	1067	256	36	187
McDowell, Richard, Lambertville, N. J., assignor to I. S. McGiehan, New York, N. Y. Car-axle box	352,979	Nov. 23	1733	464	37	806
McDowell, Robert M., Slatington, Pa. Noiseless slate frame	342,621	May 25	2314	611	35	958
McDowell, Samuel J., Boston, Mass. Portable oven	346,763	Aug. 3	386	106	36	536
McElroy, David W., Keokuk, Iowa. Portable shelving and counter	334,267	Jan. 12	1113	298	34	214
McElroy, James H., Middletown, N. Y. Chair	343,965	June 15	1708	437	35	1333
McEnerney, John. (See Iles, Henry J., assignor.)						
McEntee, James D., New York, N. Y. Sink-connection	342,452	May 25	2066	544	35	913
McEvilla, Henry, Muskegon, Mich. Reciprocating-saw mill	339,000	Mar. 30	2918	772	34	1477
McEvoy, John F. (See Smith and McEvoy.)						
McEwen, Addison C., Jersey City, N. J. Convertible saw setting and jointing device	340,802	Apr. 27	2433	640	35	455
McEwen, Addison C., Jersey City, N. J. Mixing and agitating machine	342,116	May 18	1579	421	35	818
McEwen, George W., Milton, Pa. Fence-post	340,139	Apr. 20	1486	375	35	277
McEwen, John, Lawrence, Kans. Rail-joint truss	335,292	Feb. 2	292	77	34	493
McFadden, John, Philadelphia, Pa. Rein-supporter	343,480	June 8	1054	262	35	1205
McFall, David, New York, N. Y. Center-board for vessels	351,117	Oct. 19	1456	381	37	279
McFall, Georgia L. (See McFall, Joseph B., assignor.)						
McFall, Joseph B., assignor, by mesne assignments, to G. L. McFall, Oskaloosa, Iowa. Smoothing and polishing iron	350,759	Oct. 12	925	250	37	176
McFarland, Abram L., Palatka, Fla. Track-laying machine	333,770	Jan. 5	375	102	34	70
McFarland, Edward, and L. Passmore, Philadelphia, Pa. Grate for furnaces, heaters, &c.	337,849	Mar. 16	1299	337	34	1172
McFarland, James, assignor of one-half to O. Peal, Moline, Ill. Plow potato-digger	339,914	Apr. 13	1173	291	35	216
McFarland, James M., Virginia City, Nev. Lamp-filling attachment for oil-cans	344,538	June 29	2518	649	35	1492
McFarland, Samuel G., New York, N. Y. Cistern for water-closets	350,206	Oct. 5	159	47	37	33
McFarland, Thomas A., Meadville, Pa. Chair	348,633	Sept. 7	140	39	36	1073
McFarland, Will F., assignor to himself and E. Rowles, Pleasantville, Ohio. Jar-cover	336,730	Feb. 23	2349	615	34	879
McFarlane, Daniel, *et al.* (See Clarke, Reuben, assignor.)						
McFarlane, George F. (See Gottstein and McFarlane.)						
McFeely, Ronald F., assignor of one-half to Jarecki Manufacturing Company, (limited,) Erie, Pa. Roller-skate	333,771	Jan. 5	377	103	34	71

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
McGaffey, Henry H., *et al.* (See Woolley, Leonidas G., assignor.)						
McGaffey, Ives W., assignor to E. E. and G. E. Preston, Chicago, Ill. Machine for winding wire upon hose	334,026	Jan. 12	733	201	34	145
McGaffey, Ives W., assignor to E. B. and G. E. Preston, Chicago, Ill. Rotary sprinkler	353,955	Dec. 7	442	120	37	1087
McGahan, Fred L., Indianapolis, Ind. Pipe-coupling	336,129	Feb. 16	1477	390	34	719
McGann, Owen J., Pittsburg, Pa. Pressure-regulator and cut-off	354,719	Dec. 21	1561	414	37	1305
McGar, Fred, Bristol, Conn. Inkstand	344,125	June 22	1941	496	35	1384
McGarvey, J. W. (See Elliotte and McGarvey.)						
McGauhey, James H. (See Garwood, Justice G. S., assignor.)						
McGee, Charlotte A., Jackson, Mich. Corset-waist	339,313	Apr. 6	284	71	35	54
McGee, James, Scott County, Iowa. Wheel-cultivator	348,760	Sept. 7	305	81	36	1104
McGee, John F. (See Bilton, Henry C., assignor.)						
McGee, Patrick F., and M. McMahon, assignors of one-third to A. Stokes, Oregon City, Oreg. Loom-shuttle	353,872	Dec. 7	314	82	37	1064
McGee, Robert D., Owensborough, Ky. Axle-cutter	343,058	June 1	402	102	35	1079
McGehee, Claudious K., Liberty, Miss. Boiler-feeder	342,528	May 25	2180	577	35	932
McGiehan, I. S. (See McDowell, Richard, assignor.)						
McGill, George W. (See Winter, John F., assignor.)						
McGill, George W., Salineville, Ohio. Window-shade	347,434	Aug. 17	1333	355	36	727
McGill, George W., Riverdale, N. Y. Metallic fastener	347,182	Mar. 2	404	105	34	1000
McGill, George W., Riverdale, N. Y. Metallic fastener	337,969	Mar. 16	1470	382	34	1203
McGill, George W., Riverdale, N. Y. Suspending device	337,970	Mar. 16	1472	382	34	1203
McGill, George W., Riverdale, N. Y. Shade-holder	343,481	June 8	1055	263	35	1205
McGill, George W., Riverdale, N. Y. Chain	351,789	Nov. 2	86	24	37	474
McGill, George W., New York, N. Y. Suspension device	340,803	Apr. 27	2435	640	35	456
McGill, George W., New York, N. Y. Suspension device	340,804	Apr. 27	2436	641	35	456
McGill, George W., New York, N. Y. Barbed fence	343,482	June 8	1056	263	35	1205
McGill, George W., New York, N. Y. Safety-pin	343,919	June 15	1643	421	35	1321
McGill, George W., New York, N. Y. Safety-pin	344,189	June 22	2033	519	35	1398
McGill, George W., New York, N. Y. Fastening for bags, &c	345,523	July 13	1009	256	36	187
McGill, George W., New York, N. Y. Suspension device	346,300	July 27	2133	549	36	409
McGill, George W., New York, N. Y. Fastening for traveling-bags, satchels, &c	351,644	Oct. 26	2242	581	37	428
McGill, George W., New York, N. Y. Hand-punch for perforating paper	351,645	Oct. 26	2244	581	37	429
McGill, George W., New York, N. Y., assignor to Holmes, Booth & Haydens, Waterbury, Conn. Lamp	348,405	Aug. 31	2742	736	36	1004
McGill, James W., Peoria, Ill. Mold for casting wheels	354,720	Dec. 21	1565	414	37	1305
McGill, Samuel F., Keene, N. H. Insulator for electrical conductors	349,893	Sept. 28	1865	481	36	1419
McGill, William C., Washington, D. C. Cash-register	345,247	July 6	619	157	36	112
McGill, William C., Washington, D. C. Cash-register	350,986	Oct. 19	1282	337	37	247
McGinnis, Frank. (See Herlehy and McGinnis.)						
McGinnis, James O. (See Herlehy and McGinnis.)						
McGinnis, William. (See Brown, Ethan A., assignor.)						
McGinnis, William T., New York, N. Y. Electrical exercising apparatus	341,593	May 11	866	231	35	674
McGiven, William, A. L. Nichols, and G. Darnell, Grove City, Ohio. Cheese-knife	349,732	Sept. 28	1652	426	36	1377
McGlashan, Andrew F. (See Burley and McGlashan.)						
McGlauflin, Eugene O., assignor of one-half to W. McCrory, Minneapolis, Minn. Cable railway	347,624	Aug. 17	1610	427	36	779
McGlinn, Michael A., assignor to himself and S. W. Graybill, Lancaster, Pa. Combined door-plate, bell-pull, and mail-receiver	354,646	Dec. 21	1464	389	37	1286
McGloflin, Harry B., Swan Lake, Miss. Swinging crib and bed	345,796	July 20	1436	372	36	271
McGoldrick, Neal, Brooklyn, N. Y. Rein-holder	349,733	Sept. 28	1652	426	36	1377
McGovern, Bernard. (See Tyler and McGovern.)						
McGovern, Thomas A., Bolinas, Cal. Ring-bolt for vehicles	347,435	Aug. 17	1335	355	36	727
McGowan, John C. (See Young, Tapley W., assignor.)						
McGowan, John H., Cincinnati, Ohio. Piston-rod packing	347,817	Aug. 24	1899	506	36	841
McGowan, John H., Cincinnati, Ohio. Hydraulic press	348,568	Sept. 7	47	13	36	1056
McGowan, William S., Jr., assignor to Neverslip Horseshoe Company, Boston, Mass. Horseshoe	336,863	Feb. 23	2519	664	34	911
McGrady, James, and G. H. Sloane, Boston, Mass. Medical electric belt or pad	348,406	Aug. 31	2744	737	36	1005
McGranahan, Thomas A., Newhall, Iowa. Hame-tug	352,626	Nov. 16	1256	339	37	707
McGrath, Robert M., Lafayette, Ind. Car-axle box	334,540	Jan. 19	1488	398	34	288
McGrath, Thomas, East Toledo, Ohio. Car-coupling	349,443	Sept. 21	1244	322	36	1291
McGregor, Andrew M., Moss Point, Miss. Plow	340,140	Apr. 20	1487	376	35	277
McGregor, Barnett, Earlington, Ky. Dumping-cart	337,011	Mar. 2	178	47	34	957
McGrew, Alonzo H., Hurley, Dak. Ter. Railway ditching-machine	345,855	July 20	1518	393	36	284
McGrew, James E., *et al.* (See Whaley, Thomas, assignor.)						
McGrew, James G., Crookston, Minn. Heating-stove	346,764	Aug. 3	387	107	36	536
McGrew, William H., assignor of one-half to J. Myers, Peru, Ind. Machine for building fences	341,031	May 4	79	22	35	520
McGuire, John J., *et al.* (See Brose, David, assignor.)						
McGuire, Thomas, New York, N. Y. Sign and bill holder	341,931	May 18	1322	353	35	770
McGuire, Thomas, Baltimore, Md. Curtain-fixture	343,483	June 8	1057	263	35	1206
McGuire, Thomas J. (See Jenkins and McGuire.)						
McHale, William I. B., New York, N. Y. Tube-expander	338,423	Mar. 23	2091	548	34	1325
McHale, William I. B., New York, N. Y. Tube-expander	338,424	Mar. 23	2092	548	34	1326
McHale, William I. B., New York, N. Y. Tube-expander	338,425	Mar. 23	2093	548	34	1326
McHale, William I. B., New York, N. Y. Tube expander and cutter	353,425	Nov. 30	2180	634 / 635	37	936
McHarg, John B., Rome, N. Y. Trolling-spoon	341,261	May 4	406	112	35	579
McHarg, John B., Rome, N. Y. Spinning fish-bait	347,122	Aug. 10	893	236	36	637
McHarg, John B., Rome, N. Y. Spoon-bait	354,721	Dec. 21	1567	415	37	1306
McHugh, Aloysius, Du Bois, Pa. Thill-coupling	355,275	Dec. 28	2355	619	37	1469
McHugh, James W., Du Bois, Pa. Nut-lock	348,569	Sept. 7	48	14	36	1056
McHugh, Timothy, assignor of one-half to Ward & Curley, Boston, Mass. Coupling for water-closet bowls	343,138	June 1	526	134	35	1102
McIlhenny, George A., Washington, D. C. Gas-retort furnace	346,301	July 27	2133	549 / 550	36	409
McIlvain, John H., Camden, N. J., assignor to J. B. and C. F. Bartlett, Philadelphia, Pa. Shaking-grate for ranges	346,056	July 20	1795	462 / 463	36	335
McIlvenna, Felix, Manchester, county of Lancaster, assignor to W. P. Thompson, Liverpool, England. Bottle-stopper	345,160	July 6	500	128	36	91
McIlvenna, Felix, Manchester, county of Lancaster, and J. G. Rollason, assignors to J. Cadbury, Birmingham, and W. P. Thompson, Liverpool, England. Trousers-stretcher	337,071	Mar. 2	248	66	34	972

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McIlwain, James, Okawville, assignor of one-half to A. J. Morgan, Washington County, Ill. Churn	342,622	May 25	2315	611	35	958
McIndoe, George F., Everett, Mass. Mechanical movement	338,541	Mar. 23	2244	580	34	1352
McIntoy, George, Charleston, Pa. Automatic brake for vehicles	345,599	July 13	1141	292	36	211
McIntire, Charles, Newark, N. J. Wire joint	347,625	Aug. 17	1611	427	36	779
McIntire, Charles, Geneva, N. Y. Combined rake and tedder	350,207	Oct. 5	160	47	37	33
McIntire, William C. (See Tewksbury, George C., assignor.)						
McIntosh, Charles E., Wilmington, Mass. Draw-bar for railway-cars	341,932	May 18	1323	353	35	770
McIntosh, John, Cleveland, Ohio. Apparatus for turning rolls	349,806	Sept. 28	1752	452	36	1396
McIntosh, John E., Cayuga, N. Y. Adjustable valve-seat	344,190	June 22	2033	519 / 520	35	1398
McIntosh, John E., Cayuga, N. Y. Centrifugal governor	346,302	July 27	2135	550	36	409
McIntyre, James S., Clarinda, Iowa. Compound for increasing combustion of coal, &c.	346,765	Aug. 3	388	.....	36	536
McIntyre, John, West Hoboken, N. J. Steam-condenser	354,987	Dec. 28	1939	512	37	1388
McIntyre, William E., Oakwood, Kans. Hay or grain shed cover	341,262	May 4	406	112	35	580
McKaig, Eddy T., Chicago, Ill. Roller-hinge for gates	339,453	Apr. 6	489	119	35	91
McKaig, Merwin. (See Muncaster, Walter J., assignor.)						
McKay & Copeland Lasting Machine Company. (See Brock, Matthias, assignor.)						
McKay, George P., trustee. (See Mead and Thomson, assignors.)						
McKay, John, Titusville, Pa. Treating natural gas	340,232	Apr. 20	1629	.....	35	303
McKay, John, Titusville, Pa. Treating natural gas to convert it into illuminating-gas	345,980	July 20	1689	.....	36	316
McKay, John, assignor of one-half to W. B. and E. T. Roberts, Titusville, Pa. Converting natural gas into illuminating-gas	340,231	Apr. 20	1629	.....	35	303
McKay, Isaac M., assignor to himself and H. E. Stafford, Rocklin, Cal. Safety snap-hook	354,481	Dec. 14	1202	321	37	1233
McKay, William M., Wilmot, Mich. Stump-puller	352,765	Nov. 16	1439	388	37	743
McKee, James. (See Whitaker, William W., assignor.)						
McKee, John W., Stoutland, Mo. Preserving eggs	345,065	July 6	376	.....	36	69
McKee, Rebecca, New York, N. Y. Insecticide	350,690	Oct. 12	839	.....	37	159
McKee, Rebecca, New York, N. Y. Cement for use in manufacturing stained glass	353,695	Dec. 7	57	15	37	1047
McKee, Thomas W., Towanda, Pa. Leather-rolling machine	352,955	Nov. 23	1697	456	37	799
McKeen, Thomas L., Easton, and J. W. Gaumer, Weissport, Pa.; said Gaumer assignor to said McKeen. Car-coupling	342,703	May 25	2429	645	35	980
McKeever, Timothy W. (See McKenney and McKeever.)						
McKellar, Archibald, assignor to Monumental Bronze Company, Bridgeport, Conn. Joining metallic sections	354,988	Dec. 28	1940	512	37	1388
McKellar, Reuben N. (See Webb, Samuel J., assignor.)						
McKelvey, John F., *et al.* (See Miller, John H., assignor.)						
McKelvey, William L., assignor of one-half to J. Megown, Youngstown, Ohio. Towel-rack	337,604	Mar. 9	984	252	34	1110
McKendree, Albert C., Conneaut, Ohio. Lifting attachment for mowers	335,764	Feb. 9	959	254	34	618
McKenna, B. P. (See McCauley, Patrick, assignor.)						
McKenna, Edward W., Louisville, Ky. Cleaning and lubricating railway-tracks	346,303	July 27	2136	550	36	409
McKenna, Edward W., Louisville, Ky. Air-brake attachment	348,289	Aug. 31	2584	695	36	974
McKenna, Michael J. (See Miller and McKenna.)						
McKenna, Robert, White, Tenn. Speed-governor	342,623	May 25	2316	612	35	959
McKenna, William P., Detroit, Mich. Sectional sign	334,602	Jan. 19	1568	419	34	304
McKenney, James, New York, N. Y. Metallic bayonet-scabbard	334,269	Jan. 12	1115	299	34	214
McKenney, James, New York, and T. W. McKeever, Brooklyn, N. Y. Canteen	350,544	Oct. 12	620	172	37	120
McKenzie, Alexander, Elkhorn, Nebr. Sleeve-button	354,723	Dec. 21	1568	415	37	1306
McKenzie, David, Jr., Washington, D. C. Pipe-coupling	349,511	Sept. 21	1337	347	36	1310
McKenzie, David L., Winnipeg, Manitoba, Canada. Lubricating compound	351,195	Oct. 19	1566	.....	37	300
McKenzie, James S., Fruitland, Fla. Orange sizer and bin	352,421	Nov. 9	987	266	37	650
McKenzie, John, West Troy, N. Y. Barrel-filler	334,268	Jan. 12	1114	298 / 299	34	214
McKenzie, John, West Troy, N. Y. Faucet	337,511	Mar. 9	874	222	34	1089
McKenzie, Joseph C. (See Knapp, McKenzie, and Humphrey.)						
McKenzie, Joseph C., assignor of one-half to C. C. Thompson, Canton, Ohio. Device for attaching and detaching wood labels to mail-bags	344,488	June 29	2442	627	35	1479
McKenzie, William, East Boston, Mass. Dust-guard for car-axles	339,675	Apr. 13	856	210	35	157
McKenzie, William H., Waverly, Ohio. Water conductor and receiver	349,894	Sept. 28	1866	482	36	1120
McKeogh, Lizzie, Pittsburg, Pa. Foot-pad for machine-treadles	345,248	July 6	621	158	36	112
McKeon, Frank P., Chicago, Ill. Two-wheeled vehicle	343,484	June 8	1058	264	35	1206
McKeough, John, Burlington, Vt. Portable folding camp-bedstead	337,415	Mar. 9	725	188	34	1065
McKeown, John H., assignor of one-half to M. C. McKeown, Barnesville, Ohio. Ash-pan	336,934	Mar. 2	69	19	34	939
McKeown, Mathew C. (See McKeown, John H., assignor.)						
McKerron, John A., San Francisco, Cal. Ankle and shin boot and cord protector for horses	341,032	May 4	80	22	35	520
McKesson & Robbins. (See Gabey, David A., assignor.)						
McKindley, Robert C., Magnolia, Ark. Whiffletree	350,938	Oct. 19	1176	313	37	298
McKinney, George W., assignor to R. E. Sears, Marshalltown, Iowa. Reel	353,578	Nov. 30	2601	694	37	978
McKinney, Henry D., Janesville, Wis. Check-rein hook	333,880	Jan. 5	523	142	34	98
McKinney, James M., Lima, Ohio. Bevel attachment for squares	335,293	Feb. 2	293	77, 78	34	493
McKinney, Robert M., Elizabeth, Pa. Automatic pipe-coupling	352,552	Nov. 16	1148	310 / 311	37	688
McKinney, William P. (See Dickey and McKinney.)						
McKinniss, Lewis. (See Litterer and McKinniss.)						
McKinnon, Lachlan E., St. Catharines, Ontario, Canada. Carriage-top prop	338,281	Mar. 23	1890	497	34	1290
McKinster, Frank, assignor to T. P. Randall and R. D. Calbuth, Adrian, Mich. Thill-coupling	348,985	Sept. 14	611	161	36	1165
McKinzy, Eli R. (See Ott and McKinzy.)						
McKitterick, George C., T. R. Morgans, and J. J. McKitterick Jackson, Ohio. Car-coupling	354,335	Dec. 14	1014	269	37	1198
McKitterick, John J. (See McKitterick, Morgans, and McKitterick.)						
McKeogh, Wilberforce, *et al.* (See Caldwell, Alonzo, assignor.)						
McKown, Edward J., assignor to W. H. Vick, Rochester, N. Y. Lamp	352,252	Nov. 9	770	205	37	607
McKoy, John T., Jr., Newnan, Ga. Animal-poke	354,608	Dec. 21	1412	374	37	1276
McKusick, Myron I., *et al.* (See Latchford, William J., assignor.)						
McLachlan, John, Chicago, Ill. Ditching-machine	340,141	Apr. 20	1488	376	35	278
McLain, James, *et al.* (See Campbell, Joseph H., assignor.)						
McLain, James B., Knoxville, Iowa. Cuspidor for railway-coaches, &c.	347,189	Aug. 10	988	264	36	655
McLain, James W., assignor of three-fourths to I. T. and H. Clement and J. W. Bucher, Sunbury, Pa. Detachable table-leg	344,392	June 29	2314	596	35	1456
McLain, John, Indiana, Pa. Attachment for grain-drills	335,468	Feb. 2	526	138	34	535
McLane, Alexander, Paterson, N. J. Bouquet-holder	348,332	Aug. 31	2638	711	36	984
McLane, John, Milford, N. H. Post-office box	342,217	May 18	1699	453	35	841
McLane, John, Milford, N. H. Letter-box	344,489	June 29	2442	628	35	1479

Alphabetical list of patentees—Continued

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
McLaren, Daniel R., Hinckley, Minn. Sled	347,436	Aug. 17	1336	356	36	728
McLaren, John R., Jr., Montreal, Quebec, Canada. Toboggan	336,882	Feb. 23	2559	675	34	918
McLauchlan, Daniel M. (See Boggs and McLauchlan.)						
McLaughlin, George, Cincinnati, Ohio. Camera	346,120	July 27	1873	484	36	359
McLaughlin, George G., Boston, Mass. Adjustable steam flue-cleaner	354,204	Dec. 14	822	218	37	1164
McLaughlin, Henry. (See Temple, William J., assignor.)						
McLaughlin, Henry, Bangor, Me. Automatic signal-buoy	337,971	Mar. 16	1473	382	34	1203
McLaughlin, James C., Cincinnati, Ohio. Electrical call system for hotels	335,604	Feb. 9	727	194	34	578
McLaughlin, James E., Portland, Oreg. Reflector	334,270	Jan. 12	1116	299	34	215
McLaughlin, James F., Philadelphia, Pa. Telephonic transmitter	335,294	Feb. 2	294	78	34	403
McLaughlin, James F., Philadelphia, Pa. Telephone-transmitter	341,263	May 4	408	112	35	580
McLaughlin, James F., Philadelphia, Pa. Telephone-transmitter	341,264	May 4	408	112	35	580
McLaughlin, James F., Philadelphia, Pa. Telephone	343,334	June 8	828	208	35	1163
McLaughlin, James F., Philadelphia, Pa. Telephonic apparatus	355,189	Dec. 28	2229	588	37	1444
McLaughlin, James F., Philadelphia, Pa. Telephone appliance	355,190	Dec. 28	2230	589	37	1444
McLaughlin, John T., Chicago, Ill. Covered delivery-wagon	353,365	Nov. 30	2288	611	37	918
McLaughlin, Robert, Ashawa, Ontario, Canada. Axle for vehicles	337,605	Mar. 9	985	253	34	1110
McLaughlin, William H. (See Miner and McLaughlin.)						
McLean, Anthony, and F. Cumming, San Francisco, Cal. Water-filter	346,304	July 27	2137	551	36	409
McLean, James H., St. Louis, Mo. Nut-lock	338,095	Mar. 16	1645	428	34	1236
McLean, John N., Philadelphia, Pa. Hydraulic air-compressor	341,673	May 11	981	259, 260	35	697
McLean, Malcolm, New York, N. Y. Window-guard	334,881	Jan. 26	1936	515	34	380
McLean, Neil, Watsonville, Cal. Cultivator	342,453	May 25	2067	544	35	913
McLean, Neil, Watsonville, Cal. Reversible plow	345,797	July 20	1437	372	36	271
McLellan, Charles H., Tom's River, N. J., assignor to Goodell & Waters, Philadelphia, Pa. Tripod for life-saving apparatus	335,083	Jan. 26	2215	588	34	430
McLellan, Robert A., San Francisco, Cal. Engine valve-gear	349,512	Sept. 21	1338	347, 348	36	1311
McLimans, William C., Gap, Pa. Nut-lock	354,837	Dec. 21	1725	457	37	1336
McLoughlin, Edmund, *et al.* (See Campbell, Andrew, assignor.)						
McLoughlin, Edmund, Jr., *et al.* (See Hooper, George H., assignor.)						
McLoughlin, John, *et al.* (See Campbell, Andrew, assignor.)						
McLoughlin, John E., and H. E. Brewster, Utica, N. Y. Case for holding Scotch caps	348,228	Aug. 31	2507	674	36	957
McMahon, Martin. (See McGee and McMahon.)						
McMahon, Patrick J., Tangipahoa, La. Ammoniacal-gas generator	343,598	June 15	1214	305	35	1241
McMahon, Patrick J., Tangipahoa, La. Ammoniacal gas engine	343,599	June 15	1215	305	35	1241
McMahon, Patrick J., Tangipahoa, La. Ammoniacal-gas engine	343,600	June 15	1216	305	35	1241
McMains, William W., Monongahela City, Pa. Hand printing-roller	346,489	Aug. 3	51	13	36	469
McMaster, James T. (See Bauman, Henry G., assignor.)						
McMaster, John, Dayton, Ohio. Heating-stove	342,968	June 1	272	70	35	1055
McMichael, James L., Glen Wilton, Va. Method of and apparatus for cooling furnace bosh-jackets	349,513	Sept. 21	1339	348	36	1311
McMillan, James R., Philadelphia, Pa. Combined vise, lathe, and drilling-machine	350,760	Oct. 12	927	250	37	176
McMillan, John J., Brooklyn, N. Y. Sliding-door sheave	345,314	July 13	716	181	36	135
McMillan, John L., Ilion, assignor of one-half to J. Fowler, D. L. Robertson, T. S. Coolidge, and J. W. Bush, Glens Falls, N. Y. Type-setting machine	347,626	Aug. 17	1612	427, 428, 429, 430	36	779
McMillan, John L., Ilion, assignor of one-half to J. Fowler, T. S. Coolidge, J. W. Bush, and D. L. Robertson, Glens Falls, N. Y. Type-distributing machine	347,627	Aug. 17	1620	430, 431	36	781
McMillan, Richard, Kingston, Ontario, Canada. Piano tuning-pin	345,711	July 20	1309	339	36	249
McMillan, William H. (See Wolfe, James W., assignor.)						
McMillan, William W., Hurleton, Cal. Apple parer, slicer, and corer	334,130	Jan. 12	883	242	34	172
McMillen, James, Allegheny, Pa. Fruit-jar	341,341	May 4	517	142	35	599
McMillen, John, East Brantford, county of Brant, Ontario, Canada. Hay-knife	351,196	Oct. 19	1566	411	37	300
McMillen, Thomas, assignor to himself and P. Hirsch, New Orleans, La. Barrel-head cutter	352,766	Nov. 16	1440	388	37	743
McMillin, Josephus F., Mount Pleasant, Pa. Milk-can	352,831	Nov. 16	1524	411	37	758
McMullin, Hugh L. (See Frank, Alonzo W., assignor.)						
McMullin, William and W. R. Adel, Iowa. Corn-planter	337,850	Mar. 16	1301	338	34	1172
McMullin, William R. (See McMullin, William and W. R.)						
McMullin, Joseph, Casey, Iowa. Tile-laying machine	354,429	Dec. 14	1126	302	37	1220
McMurray, Albert K., Brooklyn, N. Y. Bicycle	351,118	Oct. 19	1458	382	37	279
McMurray, Louis, assignor of three-fourths to E. Malin, A. W. Lawton, and L. S. Houghton, Baltimore, Md. Apparatus for preserving by gas	334,966	Jan. 26	2044	546	34	400
McMurray, Louis, assignor of three-fifths to E. Malin, A. W. Lawton, and L. S. Houghton, Baltimore, Md. Apparatus for preserving fruits	334,967	Jan. 26	2046	546	34	400
McMurray, Thomas J., C. H. Terpany, and S. Fogleson, Marion, Ohio. Ice-creeper	341,265	May 4	409	113	35	580
McMurry, George F., Eureka Springs, Ark. Dry closet	340,805	Apr. 27	2438	641	35	456
McNab, Anson S., *et al.* (See Hatfield, Charles B., assignor.)						
McNabb, Alexander, Big Creek, Tenn. Tobacco-fertilizer dropper	334,458	Jan. 19	1370	370	34	268
McNabb, James M., Boonsville, Tex. Lifting device	353,366	Nov. 30	2290	611	37	919
McNally, Andrew, Chicago, Ill. Oil-can	350,939	Oct. 19	1177	313	37	228
McNally, Austin, Cascade, Iowa. Wrench	340,233	Apr. 20	1630	412	35	304
McNamara, Edward S., Belleville, N. J. Hose-carriage	354,205	Dec. 14	823	218	37	1164
McNamara, John R. (See Coit and McNamara.)						
McNaughton, James. (See Small and McNaughton.)						
McNeal, Andrew C., Geigersville, Ky. Plow	345,161	July 6	501	128	36	91
McNeal, Andrew C., assignor of one-half to W. H. Tyree, Geigersville, Ky. Automatic circuit-closer for telegraph-keys	335,605	Feb. 9	728	194	34	578
McNeal, Byson. (See Bowen, Daniel C., assignor.)						
McNeal, Charles, assignor to W. H. Dodge, Mishawaka, Ind. Wooden pulley	351,064	Oct. 19	1384	363	37	265
McNeal, Herbert W., Ferndale, Cal. Calf-weaner	334,131	Jan. 12	886	242	34	172
McNees, John M., West Liberty, Pa. Wagon-bolster	343,837	June 15	1536	389	35	1100
McNeill, Solomon, assignor of one-half to O. H. Denise, Burlington, Iowa. Cartridge decapper, recapper, and reloader	335,231	Feb. 2	211	55	34	477
McNicol, Archibald, Ypsilanti, Mich. Door-check	354,336	Dec. 14	1016	269	37	1199
McNiel, Daniel T., and J. B. Carter, Kokomo, Ind. Ventilator	340,806	Apr. 27	2439	641	35	456
McNitt, Martin. (See Deering, Robert F., assignor.)						
McNorton, John T., assignor to J. A. Brooks, Burnet, Tex. Corn and cotton planter	345,389	July 13	814	205	36	152
McPherson, Horace, Crete, Ill. Horse hay-rake	353,799	Dec. 7	205	55	37	1044
McPherson, James A., Brunswick, N. Y. Whip-rack	335,765	Feb. 9	961	254	34	619
McPherson, James A., Brunswick, N. Y. Milk-strainer	350,379	Oct. 5	368	105, 106	37	74

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
McPherson, John B., Lowell, assignor of one-half to G. Draper & Sons, Hopedale, Mass. Spindle-support	353,409	Nov. 30	2360	628	37	932
McPherson, John W., Moline, Ill. Brake-lever	348,229	Aug. 31	2508	674	36	958
McPherson, William, New York, N. Y. Machine for making stirrup-irons for beams, &c	349,946	Sept. 28	1937	501	36	1433
McPike, W. B., *et al.* (See Platt, Albert L., assignor.)						
McQuaide, John, Staunton, Va. Elevator	336,581	Feb. 23	2135	560	34	839
McQuarry, Hector, Allandale, Ontario, Canada. Axle-gage	337,606	Mar. 9	986	233	34	1110
McQueen, Fletcher J., Ocala, Fla. Electric train-controlling system	347,628	Aug. 17	1625	431	36	782
McQuiston, Albert, Elsie, Mich. Barrel-holder	336,419	Feb. 16	1917	502	34	796
McQuitty, Andrew J., *et al.* (See Platt, Mathias, assignor.)						
McRae, John A. (See Marshall, Thomas T., assignor.)						
McRae, John B., Mount Holly, Ark. Clamp	342,529	May 25	2181	578	35	933
McRae, Peter. (See Ritch and McRae.)						
McSherry, Daniel E., Dayton, Ohio. Seeding-machine	354,163	Dec. 14	756	203	37	1151
McSherry, Mary M. (See Bigler, Gottlieb, assignor.)						
McSipple, Lacy, Bucklin, Mo. Cutting apparatus for harvesters	344,191	June 22	2035	520	35	1398
McSweeny, Terrence, Allegheny, assignor to T. A. Gillespie, Pittsburg, Pa. Pipe-joint for gas-mains	341,266	May 4	410	113	35	580
McTighe, James J., Pittsburg, Pa. Manufacture of hard carbon	338,542	Mar. 23	2246	590	34	1553
McTighe, James J., Pittsburg, Pa. Apparatus for producing hard carbon from hydrocarbon vapor	338,605	Mar. 23	2330	610	34	1367
McTighe, James J., Pittsburg, Pa. Apparatus for manufacturing lamp-black	346,168	July 27	1949	502	36	373
McTighe, James J., Pittsburg, Pa. Manufacturing carbon-black	346,169	July 27	1950	503	36	374
McTighe, Thomas J. (See Dalzell and McTighe.)						
McTigbe, William J., Pittsburg, Pa. Nut-lock	334,790	Jan. 26	1825	487	34	360
McTyeire, William C., Hatchechubbee, Ala. Manure-distributer	340,591	Apr. 27	2140	553, 554	35	404
McVey, John M., Lima, Ohio. Stop and waste cock	340,807	Apr. 27	2440	642	35	456
McVicar, Peter A., Auburndale, Mass. Wagon-body	334,271	Jan. 12	1116	299	34	215
McVicar, Girard, and P. Glor, Jr., assignors to J. W. Ruger & Co., Buffalo, N. Y. Barrel-heater	343,838	June 15	1537	389	35	1300
McVickar, James. (See Irish, Joseph, assignor.)						
McVoy, Martin, South Bay City, Mich. Cooler and filter	348,032	Aug. 24	2210	590	36	897
McWane, Charles P., Wytheville, Va. Plow	354,647	Dec. 21	1465	389	37	1286
McWhorter, William A., Norfolk, Va. Fertilizer-distributer	339,454	Apr. 6	490	119	35	91
McWilliams, John. (See Brown, William, assignor.)						
McWilliams, John, New Lebanon, N. Y. Mop-holder	335,295	Feb. 2	295	78	34	493
McWilliams, Patrick H., Detroit, Mich. Elevator-guard	355,191	Dec. 28	2231	589	37	1445
Meacham, James H., Petersburg, Va. Smoke and cinder conductor	345,524	July 13	1010	256	36	188
Meachem, Thomas W., *et al.* (See Ellis, Richard E., assignor.)						
Meacom, George, Chelsea, assignor to P. W. French, trustee, Weymouth, Mass. Machine-belting	353,873	Dec. 7	316	82	37	1065
Mead, Albert G. (See Wood and Mead.)						
Mead, Chester K., Des Moines, Iowa. Arm-support for telephone-operators	351,389	Oct. 26	1837	482	37	354
Mead, Edward G., assignor to Prang Educational Company, Boston, Mass. Sketching-easel	337,512	Mar. 9	875	222	34	1089
Mead, George. (See Ward and Mead.)						
Mead, George, Detroit, Mich. Pulverizer	335,827	Feb. 9	1042	276	34	634
Mead, Isaac V., Corona, N. Y. Bush-hammer	345,598	July 13	1140	291	36	211
Mead, John, Detroit, Mich. Hydrant	349,230	Sept. 14	956	244	36	1227
Mead, John T., and J. Thomson, assignors to G. P. McKay, trustee, Cleveland, Ohio. Feed-water purifier	336,249	Feb. 16	1684	439	34	751
Mead, Reuben C., New Hampton, assignor of one-half to J. E. Earle, Middletown, N. Y. Stanchion	341,107	May 4	181	56	35	538
Mead, William S., Philadelphia, Pa. Water and oil gas burner	345,712	July 20	1310	339	36	249
Mead, William S., Philadelphia, Pa. Regenerative gas-burner	354,564	Dec. 21	1331	353	37	1262
Meagher, Edmund D., assignor to Economist Plow Company, South Bend, Ind. Sulky-plow	345,713	July 20	1312	339	36	249
Meaker, John W., assignor to Railway Register Company, Chicago, Ill. Fare-register	338,426	Mar. 23	2094	548, 549, 550	34	1326
Meaker, John W., assignor to Railway Register Company, Chicago, Ill. Lock for slides or covers	344,126	June 22	1942	496	35	1381
Meaker, John W., assignor to Railway Register Company, Chicago, Ill. Fare-register	347,437	Aug. 17	1337	356, 357	36	728
Meats, John T., Taunton, Mass. Spindle-bearing	342,873	June 1	140	34	35	1031
Meatyard, Edward B., Lake Geneva, Wis. Apparatus for compressing cast metal	347,003	Aug. 10	711	188	36	604
Meatyard, Edward B., Lake Geneva, Wis. Apparatus for compressing fluid metal	347,004	Aug. 10	713	188, 189, 190	36	605
Meatyard, Edward B., Lake Geneva, Wis. Machine for rolling I-beams	347,005	Aug. 10	718	190, 191	36	605
Mechanical Orguinette Company. (See Chase, J. Herbert, assignor.)						
Mechanical Orguinette Company. (See Pain, Robert W., assignor.)						
Medart, Philip, assignor of one-half to W. Medart, St. Louis, Mo. Machine for straightening metal bars or pipes	352,652	Nov. 16	1290	348	37	713
Medart, Philip, assignor of one-half to W. Medart, St. Louis, Mo. Machine for straightening metal bars or pipes	352,705	Nov. 16	1368	369, 370	37	728
Medart, Philip, assignor of one-half to W. Medart, St. Louis, Mo. Machine for straightening metal bars or pipes	352,706	Nov. 16	1371	370, 371	37	729
Medart, William. (See Medart, Philip, assignor.)						
Medley, Granville E., Hopkinsville, Ky. Fishing-reel	346,490	Aug. 3	52	13	36	470
Medling, Francis M., Rutherford Depot, Tenn. Headstall for stock	350,380	Oct. 5	369	106	37	71
Meech, Harrison B., Cleveland, Ohio. Agitator for steam-boilers	334,182	Jan. 12	965	261	34	186
Meech, Harrison B., Cleveland, Ohio. Concentrating and amalgamating machine	340,142	Apr. 20	1490	377	35	278
Meech, Harrison B., Cleveland, Ohio. Steam-boiler furnace	341,034	May 4	82	22, 23	35	520
Meech, Harrison B., Cleveland, Ohio. Ore-roasting furnace	341,035	May 4	83	23	35	520
Meech, Harrison B., Chatham Village, N. Y. Furnace	341,033	May 4	81	22	35	520
Meehan, James, Covington, Ky. Brake-shoe	354,724	Dec. 21	1569	415	37	1306
Meehan, James, Covington, Ky. Car-brake and wheel-dresser	354,725	Dec. 21	1570	416	37	1306
Meehan, Patrick W., Providence, R. I. Automatic overflow-trap	343,826	June 15	1525	384	35	1297
Meeker, Edwin C., Newark, N. J., assignor to S. I. Knight, New York, N. Y. Writing-tablet	339,570	Apr. 6	676	165	35	122
Meeker, Fred F., Westport, Conn. Fastener for shoes, gloves, &c	342,372	May 25	1957	517	35	894

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Meeker, Frederick, W., New York, N. Y. Manufacture of earthenware tanks or cells for galvanic batteries	334,027	Jan. 12	735	201	34	145
Meeker, George E., and E. R. Fisher, Meriden, Conn. Blacking-box holder	353,571	Nov. 30	2594	692	37	976
Meeker, Melvin C., Occidental, Cal. Lifting-jack	350,597	Oct. 12	701	191	37	134
Meeker, Melvin C., Occidental, Cal. Gate	351,119	Oct. 19	1459	382	37	279
Meeker, Walter C. (See Brown and Meeker.)						
Meeks, John L., Brooklyn, N. Y. Adjustable folding spring bed-bottom	352,480	Nov. 9	1038	285	37	664
Meelhausen, Henry, Chicago, Ill. Game apparatus	342,117	May 18	1584	422	35	818
Meerlender, Paul H., assignor to Waterbury Watch Company, Waterbury, Conn. Manufacture of mainsprings	352,767	Nov. 16	1441	388	37	743
Meeze, Arthur G., Redhill, county of Surrey, England. Apparatus for measuring and continuously registering physical power	336,336	Feb. 16	1803	472	34	774
Meeze, Arthur G., Redhill, county of Surrey, England. Apparatus for measuring and continuously registering physical power	336,337	Feb. 16	1806	472, 473, 474	34	774
Mefford, David M., Toledo, Ohio, assignor to National Heavy Ordnance Company. Ordnance	335,606	Feb. 9	729	194	34	578
Mefford, David M., Toledo, Ohio, assignor to National Heavy Ordnance Company. Ordnance	335,607	Feb. 9	730	195	34	578
Megathey, William, assignor of two-thirds to T. Currey, Cleveland, and T. E. Keavy, Kent, Ohio. Car-axle lubricator	337,779	Mar. 9	1200	311	34	1147
Megill, Edward L., Brooklyn, N. Y. Gage-pin	341,036	May 4	84	24	35	521
Megill, Edward L., Brooklyn, N. Y. Gage-pin for printing-presses	345,066	July 6	376	95	36	69
Megown, John. (See McKelvey, William L., assignor.)						
Megson, John, Adams, Mass. Stop-motion for looms	348,761	Sept. 7	306	81, 82	36	1104
Mehan, John J., *et al.* (See Bradshaw, John A., assignor.)						
Mehew, Stephen D., Peabody, Kans. Neck-yoke	334,791	Jan. 26	1826	487	34	360
Meble, Julius J., *et al.* (See Lilley, Alfred, assignor.)						
Mehren, Jacob F., Chicago, Ill. Telephone-switch	349,947	Sept. 28	1939	501	36	1433
Meier, Charles E., New York, N. Y. Lantern	343,048	June 1	387	98	35	1077
Meigs, Joe V., Lowell, Mass. Machine for feeding cartridge-shells	340,234	Apr. 20	1632	413, 414	35	304
Meigs, Montgomery C., Washington, D. C. Crayon or pencil holder	336,250	Feb. 16	1685	440	34	752
Meik, Samuel, *et al.* (See Cleveland, Erastus L., assignor.)						
Meikle, James, Providence, R. I. Bleaching apparatus	338,096	Mar. 16	1646	428	34	1236
Meikle, Thomas, Louisville, Ky. Cultivator	352,553	Nov. 16	1152	311	37	688
Meikle, Thomas, Louisville, Ky. Cultivator	352,554	Nov. 16	1152	311	37	689
Meinecke, Heinrich, Breslau, Germany. Rotary water-meter	350,496	Oct. 12	558	155	37	110
Meiners, Gustave, Hoboken, N. J. Cuff-button	346,935	Aug. 10	627	168	36	589
Meinke, Herman, *et al.* (See Wurzner, Joseph, assignor.)						
Meinzer, Charles L., Pitt, Ohio. Grain-drill	336,420	Feb. 16	1918	503	34	796
Meise, Eduard, Pittsburg, Pa. Combined sewing-machine and work-holding frame for attitching the insoles of shoes	343,669	June 15	1308	328	35	1257
Meise, Eduard, Pittsburg, Pa. Frame for the manufacture of insoles	343,670	June 15	1311	329	35	1258
Meisel, Otto J., *et al.* (See Friede, Wilhelm, assignor.)						
Meisenheimer, Adam, Milwaukee, Wis. Automatic fire-alarm	350,381	Oct. 5	369	106	37	74
Meisenheimer, William S., Dongola, Ill. Railway-track	344,539	June 29	2519	650	35	1493
Meisler, Ignatz, New York, N. Y. Leak-stopper for vessels	353,800	Dec. 7	206	55	37	1045
Meisselbach, August F., Newark, N. J. Fishing-reel	336,657	Feb. 23	2256	588	34	860
Meisselbach, August F., Newark, N. J. Fishing-reel drag	352,926	Nov. 23	1657	445	37	793
Meixell, John B. (See Kienardt, John A., assignor.)						
Mekelburg, August, Milwaukee, Wis. Fanning-mill	334,183	Jan. 12	965	261, 262	34	186
Melcher, Gustav, Dusseldorf, Prussia, Germany. Pump	343,827	June 15	1526	385	35	1296
Melcher, John C., O'Quinn, Tex. Honey-extractor	335,828	Feb. 9	1044	276	34	635
Melcher, William H., *et al.* (See Goff, Daniel, assignor.)						
Melcher, William H., Philadelphia, Pa. Kiln for bricks, lime, pottery, &c.	339,001	Mar. 30	2920	773	34	1477
Melchior, Edward, *et al.* (See Lindner, Ferdinand, assignor.)						
Melchior, Ludwig. (See Popp and Melchior.)						
Melius, Lyman B., Copake, assignor to Improved Horse Shoe Company, New York, N. Y. Horseshoe	344,452	June 29	2389	615	35	1470
Mellick, Orlando C., assignor to L. E. Stowe, Detroit, Mich. Capsule-machine	341,267	May 4	411	113	35	581
Mellor, Charles H. (See Mellor, Charles R., assignor.)						
Mellor, Charles R., assignor of one-fourth to C. H. Mellor, Philadelphia, Pa. Centrifugal machine for separating liquids	334,713	Jan. 19	1725	459, 460	34	333
Mellor, James B., Baltimore, Md. Churn-dasher	349,854	Sept. 28	1820	470	36	1410
Meloy, John C. (See Beaupre and Meloy.)						
Melson, John T., Laurel, Del. Car coupling	349,050	Sept. 14	708	181	36	1120
Melson, John T., Laurel, Del., assignor of two-thirds to A. Y. Davison and G. S. and W. S. Carrigan, Philadelphia, Pa. Automatic air-brake coupler	352,927	Nov. 23	1657	445, 446	37	793
Melton, Amon, *et al.* (See Ford, Simeon J., assignor.)						
Melton, Edwin N. (See Hubbell, Edwin, assignor.)						
Memmler, F. William. (See Taber, David F., assignor.)						
Menahan & Co., John. (See Menahan, John, assignor.)						
Menahan, John, Brooklyn, assignor to J. Menahan & Co., New York, N. Y. Fastener for purses	345,067	July 6	377	95	36	69
Mencke, Frederick, New York, N. Y. Ornamenting fabrics for covering walls	333,881	Jan. 5	524	.....	34	98
Mendel, Alfred, Stichlen, near Dresden, Saxony, Germany. Means for carrying knapsacks.	353,874	Dec. 7	317	82	37	1065
Mendel, Sarah A., Chicago, Ill. Water-proof cloak	349,313	Sept. 21	1047	268	36	1254
Mendelsohn, Solomon, San Francisco, Cal. Shirt	350,070	Sept. 28	2108	545	36	1464
Mendenhall, Hiram, Audubon, Iowa. Feed-trough	339,915	Apr. 13	1173	292	35	216
Mendenhall, Stephen C., Richmond, Ind. Skate and caster roller	343,185	June 8	601	149	35	1125
Mendenhall, Stephen C., Richmond, Ind. Skate-roller	344,453	June 29	2390	615	35	1470
Meneely, Charles D. (See Gibbons and Meneely.)						
Meneely, George R., Albany, N. Y. Journal-box	345,798	July 20	1438	372	36	271
Meneely Hardware Company. (See Gibbons, John, assignor.) (Reissue.)						
Meneely Hardware Company. (See Gibbons and Meneely, assignors.)						
Menefee, Stephen A., and E. S. Mullinax, Ganado, Tex. Wire-stretcher	344,668	June 29	2680	696	35	1525
Menke, Henry, Jr., De Witt, Nebr. Revolving fan	337,600	Mar. 9	981	251	34	1109
Mensor, Abe W., Jacksonville, Oreg. Combination-garment	339,571	Apr. 6	679	165	35	122
Menuez, Vincent A., Lansing, Kans. Vehicle-top	342,874	June 1	140	34	35	1031
Menzies, John, Kyneton, Victoria. Tram-car	350,263	Oct. 5	221	64, 65	37	46
Menzies, William J., St. Helens, county of Lancaster, England. Composition for the manufacture of soap	345,714	July 20	1313	.....	36	249

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Menzies, William J., St. Helens, county of Lancaster, England. Manufacture of soap by the cold process	345,715	July 20	1314	.....	36	249
Mercer, Alfonso, Brambleton, Va. Tricycle	354,337	Dec. 14	1017	270	37	1199
Mercer, Fredrick D. and J. S., Dereham, county of Oxford, Ontario, Canada. Harvester	340,808	Apr. 27	2441	642	35	457
Mercer, John S. (See Mercer, Fredrick D. and J. S.)						
Merchant, Robert A., assignor to W. W. Conde, Watertown, N. Y. Fastener for umbrella-runners	343,963	June 15	1795	436	35	1332
Merchants Store Railway Company. (See Fisher, Frank E., assignor.)						
Meredith, John H., assignor of one half to J. Billings, Toledo, Ohio. Hay-press	335,296	Feb. 2	296	78	34	494
Mergenthaler, Ottmar, Baltimore, Md., assignor, by mesne assignments, to National Typographic Company, W. Va. Machine for producing type-matrices	344,974	July 6	243	61, 62	36	44
Mergenthaler, Ottmar, Baltimore, Md., assignor, by mesne assignments, to National Typographic Company, Washington, D. C. Machine for casting stereotypes	347,818	Aug. 24	1901	507, 508	36	841
Mergenthaler, Ottmar, Baltimore, Md., assignor to National Typographic Company, Washington, D. C. Machine for producing type-bars and matrices therefor	345,525	July 13	1012	257, 258, 259	36	188
Mergenthaler, Ottmar, Baltimore, Md., assignor to National Typographic Company, Washington, D. C. Type-matrix and mechanism for distributing the same	347,630	Aug. 17	1639	435	36	784
Mergenthaler, Ottmar, Baltimore, Md., assignor to National Typographic Company. Machine for producing type-bars	345,526	July 13	1021	259, 260, 261, 262, 263	36	189
Mergenthaler, Ottmar, Baltimore, Md., assignor to National Typographic Company. Machine for producing type-bars	347,629	Aug. 17	1627	432, 433, 434	36	782
Merian, Peter A., Brooklyn, N. Y. Feather-pompon	343,592	June 15	1206	303	35	1239
Mericle, James, assignor to himself and W. T. Shaw, Patchogue, N. Y. Device for withdrawing the pipes from driven wells	338,427	Mar. 23	2099	550	34	1326
Meriden Britannia Company. (See McCarthy, Oliver, assignor.)						
Merigot, Jean L., *et al.* (See Frost, Walter, assignor.)						
Merino Shoe Company. (See Alexander, Samuel G., assignor.)						
Merino Shoe Company. (See Hawley, Alfred A., assignor.)						
Merino Shoe Company. (See Hyson, Henry, assignor.)						
Merino Shoe Company. (See Wallace, Oren E., assignor.)						
Meriwether, Charles N. (See Meriwether, Gilmer and C. N.)						
Meriwether, Gilmer, Guthrie, Ky., and C. N. Meriwether, St. Bethlehem, Tenn. Drier	343,773	June 15	1467	367	35	1286
Merkel, Charles and G.; said Charles Merkel assignor to said G. Merkel, Philadelphia, Pa. Game-table	352,555	Nov. 16	1153	311	37	689
Merkel, George. (See Merkel, Charles and G.)						
Merklen, Valentine, New York, N. Y. Machine for turning wooden spirals	339,314	Apr. 6	285	71, 72	35	54
Merklen, Valentine, New York, N. Y. Lathe for turning spirals. (Reissue)	10,765	Sept. 21	1550	400	36	1354
Mermod Freres. (See Campiche, Louis, assignor.)						
Merredith, John, assignor of one-half to G. P. Weed, Dayton, Ohio. Door-check	340,143	Apr. 20	1492	377	35	279
Merrell, Albert R., and D. Lemon, Marshalltown, Iowa. Can-watering machine	354,206	Dec. 14	825	218	37	1164
Merrell, Daniel B., Crystal Spring, N. Y. Manure-spreader	341,493	May 11	724	195	35	647
Merrey, Joseph W. (See Colbourne, Mark J., assignor.)						
Merriam, Truman, Milwaukee, Wis. Covering for pipes, &c	347,631	Aug. 17	1642	435	36	785
Merrick, Frank W., Somerville, Mass. Sewing-machine	343,383	June 8	913	228, 229	35	1180
Merrifield, Charles E., Indianapolis, Ind., assignor to W. M. Johnston, Wilmot, Ohio. Lathing	334,603	Jan. 19	1569	419	34	305
Merrihew, Joseph R., New York, N. Y. Coffee-huller	337,691	Mar. 9	1090	281, 282	34	1128
Merrill, Albert H., Sanford, Fla. Combined note-book holder and line-indicator	351,120	Oct. 19	1460	382	37	280
Merrill, Alfred K., Brooklyn, assignor to G. A. Goldsmith, New York, N. Y. Collar	346,669	Aug. 3	278	76	36	515
Merrill, Anson P., Fall River, Mass. Bicycle-lock	337,183	Mar. 2	405	105	34	1000
Merrill, Benjamin B., and J. A. Wing, Littleton, Mass. Truck	355,192	Dec. 28	2233	589	37	1445
Merrill, Benjamin N., Lisbon, Me. Wash-board holder	337,601	Mar. 9	982	252	34	1109
Merrill, Charles A., assignor of one-half to M. Garland, Bay City, Mich. Gang-edger	333,882	Jan. 5	525	142, 143	34	98
Merrill, Edwin C., Pittsburg, Pa. Stop-valve for gas-supply systems	334,882	Jan. 26	1937	516	34	380
Merrill, Freeman C., Paris, Me. Swivel-plow	353,696	Dec. 7	58	15, 16	37	1017
Merrill, John T., *et al.* (See Kneedler, Lewes, assignor.)						
Merrill, Joshua, *et al.* (See Daelen, Lambert A., assignor.)						
Merrill, Luther, Astoria, Ill. Car-coupling	340,235	Apr. 20	1634	414	35	304
Merrill, Luther, Osterdock, Iowa. Parquetry for floors	352,556	Nov. 16	1154	312	37	689
Merrill, Nelson, New York, N. Y. Pedal for velocipedes	351,880	Nov. 2	216	61	37	498
Merrill, Oliver H., Manchester, assignor to American Button Fastener Company, New Britain, Conn. Needle	335,138	Feb. 2	57	15	34	451
Merrill, William, *et al.* (See Pake, Edward G., assignor.)						
Merrill, William E. T., assignor of two-thirds to R. Reach and A. Gray, Philadelphia, Pa. Bell	350,145	Oct. 5	71	21	37	16
Merriman, Alanson H. (See Hitchcock, Homer S., assignor.)						
Merriman, Alanson H., Meriden, Conn. Adjustable frame for power-presses	354,164	Dec. 14	757	203	37	1151
Merrin, William L., Fredericktown, Ohio. Organ-pipe	347,363	Aug. 17	1238	330	36	709
Merritt, Benjamin, Newton, Mass. Revolving fire-arm	338,760	Mar. 30	2571	678, 679	34	1415
Merritt, Henry W., assignor to W. H. Ireland, Boston, Mass. Plastic compound	341,157	May 4	256	.....	35	551
Merritt, Henry W., Somerville, assignor to W. H. Ireland, Boston, Mass. Grate	353,875	Dec. 7	318	82, 83	37	1065
Merritt, James D., Brooklyn, N. Y., assignor to C. Fones, Bridgeport, Conn. Carburetor	350,382	Oct. 5	371	106, 107	37	74
Merritt, Samuel F., Springfield, Mass. Eyeglass-holder	346,305	July 27	2139	551	36	410
Merritt, Worth, Indianapolis, Ind. Doffer-cleaner for carding-machines	348,498	Aug. 31	2878	774	36	1030
Merry, James P. (See Gray, Miles M., assignor.)						
Merry, Whiting P., Cortland, Ohio. Heat-equalizer	347,819	Aug. 24	1910	508	36	842
Mersereau, William T., Orange, N. J. Carpet-fastener	344,393	June 29	2315	596	35	1456
Mersereau, William T., Orange, N. J. Carpet-fastener	344,394	June 29	2315	597	35	1456
Mersereau, William T., South Orange, N. J. Brass rod and tubing	344,847	July 6	70	18	36	13
Mersman, Joseph, Delphos, Ohio. Hat-stand	333,772	Jan. 5	379	103	34	71
Mertens, Louis, Erie, Pa. Water-indicator for steam-boilers	335,139	Feb. 2	57	16	34	451
Mertes, August. (See Otto, Mertes, and Mitsch.)						
Mertes, August. (See Puhl and Mertes.)						
Mervin, Edward P. (See Bennett, Walter E., assignor.)						
Merwin, Nathan W., New Haven, Conn. Pot and kettle scraper	342,118	May 18	1581	422	35	818

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.s	Official Gazette. Vol.	Official Gazette. Page.
Merz, Josef, Brünn, Austria-Hungary. Apparatus for making extracts	339,201	Apr. 6	123	33	35	24
Merz, Theodore C., Detroit, Mich. Capsule-machine	334,792	Jan. 26	1827	487	34	360
Merz, Theodore C., Detroit, Mich. Capsule cutting machine	355,193	Dec. 28	2234	590	37	1445
Merz, Theodore C., assignor of one-half to P. Plessner, Detroit, Mich. Bottle-stopper	345,249	July 6	622	158	36	112
Meschter, Jacob K., Philadelphia, Pa. Incubator	347,946	Aug. 24	2092	556	36	876
Meserole, Jacob, Southington, Conn. Rotary paper-cutter	346,167	July 27	1948	502	36	373
Messenger, Eugene L., Fulton, N. Y. Heating-stove	352,879	Nov. 16	1591	429	37	772
Messer, Daniel F., Kennebunk, Me., assignor of one-half to L. W. Chase and C. W. Chamberlain, Boston, Mass. Felt boot	343,135	June 1	525	133	35	1101
Messer, Daniel F., Kennebunk, Me., and E. F. Woodbury, Boston, Mass.; said Woodbury assignor to said Messer. Machine for forming bats for felt boots, &c	344,589	June 29	2577	667 / 668	35	1505
Messer, Fred, Beloit, Wis. Machine for dressing grinding-rolls	334,262	Jan. 12	1104	296	34	213
Messer, George E., Boston, Mass. Safety-stop for throttle valves	334,261	Jan. 12	1103	295	34	212
Messer, John P., Cedar Rapids, Iowa. Cleaning out conduits	335,608	Feb. 9	732	195	34	579
Messinger, William T., Cambridge, Mass. Apparatus for lifting and controlling the flow of fluids	334,793	Jan. 26	1828	488	34	361
Messinger, William T., Cambridge, Mass. Check-valve	346,600	Aug. 3	190	51	36	497
Messinger, William T., Cambridge, Mass. Injector	350,545	Oct. 12	624	172	37	120
Messinger, William T., Cambridge, Mass. Injector	350,546	Oct. 12	624	173	37	121
Messinger, William T., Cambridge, Mass. Injector	350,547	Oct. 12	627	173	37	121
Messinger, William T., Cambridge, Mass. Fluid-discharging apparatus	351,453	Oct. 26	1952	509	37	374
Messinger, William T., Cambridge, Mass. Fluid-discharging apparatus	351,454	Oct. 26	1954	509	37	374
Messinger, William T., Cambridge, Mass. Fluid-discharging apparatus	351,455	Oct. 26	1956	509	37	375
Messmer, Alexander L. H., Toledo, Ohio. Vehicle-wheel	352,882	Nov. 16	1525	411	37	758
Mestaniz, Linbomir R., Brooklyn, N. Y. Making artificial bone, ebony, marble, &c	353,697	Dec. 7	58	.....	37	1017
Meston, Alexander W., St. Louis, Mo. Governor for electric motors	353,367	Nov. 30	2290	611 / 612	37	919
Metal Seaming Company of Baltimore City. (See Small, Edward, assignor.)						
Metallic Steel Railway Supply Company. (See Gibbon, Thomas H., assignor.)						
Metcalf, Benj. A. (See Otto and Zimmerman, assignors.)						
Metcalf, George A., *et al.* (See Booth, John, assignor.)						
Metcalf, Samuel G. (See Hollerith and Metcalf.)						
Metcalf, Theodore S., Cedar Rapids, Iowa. Printer's quoin	337,851	Mar. 16	1302	338	34	1173
Metcalf, William H., *et al.* (See Shaw and Walden, assignors.)						
Metcalf, William H., New Haven, Conn. Gas-pressure regulator	351,275	Oct. 19	1665	437	37	317
Metcalfe, Henry, Paris, Ontario, Canada. Wagon-spring	345,162	July 6	502	128	36	91
Metcalfe, John, assignor of one-half to C. Champion, Brantford, Ontario, Canada. Buggy-top	340,809	Apr. 27	2442	642	35	457
Metcalfe, John T., Quincy, Pa. Steam-engine	337,184	Mar. 2	407	106	34	1001
Metcalfe, John T., Quincy, Pa. Steam-engine	343,542	June 8	1127	284 / 285	35	1218
Metropolitan Wire Nail Manufacturing Company. (See Voigt, Max G., Sr., assignor.)						
Mets, Elisha, assignor of one-half to A. P. De Neve, Rochester, N. Y. Knockdown table	335,140	Feb. 2	58	16	34	451
Mettler, James I., assignor, by mesne assignments, of one-half to C. Woodward, Creston, Ill. Attachment for holding sickle-bars while being ground	340,346	Apr. 20	1797	460	35	335
Metz, John W., Manchester, Ohio. Bell-alarm for elevator-cars	350,146	Oct. 5	72	21	37	16
Metzger, Gustav, assignor to J. B. Stobaeus, Newark, N. J. Fluid-pressure regulator	334,714	Jan. 19	1727	460	34	333
Metzger, Martin L., and G. W. Brown, assignors to W. O. Hickok, Harrisburg, Pa. Receiving-box for ruling-machines	346,411	July 27	2292	589 / 590	36	438
Metzger, Martin L., and A. Cooper, assignors to W. O. Hickok, Harrisburg, Pa. Gage for paper-cutters	335,766	Feb. 9	962	254 / 255	34	619
Metzger, Martin L., and A. Cooper, assignors to W. O. Hickok, Harrisburg, Pa. Feed-grinder	345,163	July 6	503	128 / 129	36	92
Metzger, Martin L., and A. Cooper, assignors to W. O. Hickok, Harrisburg, Pa. Book-trimming machine	346,412	July 27	2295	590	36	438
Metzger, William H. (See Koons and Metzger.)						
Metzler, Benjamin F. (See Noble and Metzler.)						
Metzler, Samuel, Chicago, Ill. Fence-post	342,373	May 25	1958	517	35	894
Metzler, Samuel, Chicago, Ill. Wire-fastener	354,801	Dec. 21	1660	444	37	1327
Meunier, Herman J., Milwaukee, Wis. Clamp for lamp-brackets, &c	353,956	Dec. 7	443	120	37	1087
Meurer, Otto H., and G. N. Klein, Philadelphia, Pa. Wardrobe-trunk	353,876	Dec. 7	319	83	37	1065
Meuth, Adam A. (See Hosack, Samuel G., assignor.)						
Meyer, Albert, San Francisco, Cal. Hop-press	342,805	June 1	42	11	35	1014
Meyer, Anton, Empire City, Nev. Salve	334,028	Jan. 12	736	.....	34	145
Meyer, August, Baltimore, Md. Automatic safety gas-burner	333,653	Jan. 5	203	56	34	40
Meyer, Bendix, Gleiwitz, Prussia, Germany. Device for preventing the explosion of steam-boilers	351,121	Oct. 19	1462	383	37	280
Meyer, Benjamin F., Camden, N. J., and M. Kohler, Philadelphia, Pa., assignors to M. A. Furbush & Son Machine Company, Camden, N. J. Stop-motion for looms	352,340	Nov. 9	889	239	37	630
Meyer, Charles W., Moscow Mills, Mo. Fence	341,037	May 4	85	24	35	521
Meyer, Emil L., assignor to J. S. Nugent & Co., New York, N. Y. Paper box	354,726	Dec. 21	1571	416	37	1307
Meyer, Ernest A. E., Watertown, N. Y. Starching washed goods	348,762	Sept. 7	308	82	36	1104
Meyer, Friedrich C. M., Buxtehude, Prussia, Germany. Grain-weighing apparatus	339,002	Mar. 30	2921	773 / 774	34	1478
Meyer, George F., and J. M. Chambers, St. Louis, Mo. Fastener for hoops	343,645	June 15	1278	321	35	1252
Meyer, Henry W. (See Brown and Meyer.)						
Meyer, Isaac, St. Louis, Mo. Fly-net	349,231	Sept. 14	958	244	36	1227
Meyer, John, Covington, Ky. Vent-bung	349,354	Sept. 21	1111	287	36	1266
Meyer, Joseph O., and W. Strickler, Buffalo, N. Y. Machine for baking wafers	334,451	Jan. 19	1356	367	34	266
Meyer, Joseph O., and W. Strickler, Buffalo, N. Y. Baking-machine	349,115	Sept. 14	801	203	36	1197
Meyer, Martin P., Rochester, N. Y. Delivering apparatus for web-printing presses	354,338	Dec. 14	1018	270 / 271	37	1199
Meyer, Moritz, St. Louis, Mo. Iron pavement	343,718	June 15	1400	349	35	1273
Meyer, Philip, Falls City, Nebr. Harrow	340,236	Apr. 20	1635	414	35	305
Meyer, Philipp, Jr., Magdeburg, Prussia, Germany. Umbrella	337,276	Mar. 2	530	139	34	1024
Meyer-Sniffen Company. (See Bunting, William, Jr., assignor.)						
Meyer, Thomas, Logansport, Ind., assignor to himself, and H. Tucker, New York, N. Y. Trace-supporter	343,828	June 15	1527	385	35	1298
Meyer, William C., Vallejo, Cal. Flour-bolting reel	338,858	Mar. 30	2704	711	34	1440
Meyers, Frederick, Brooklyn, N. Y. Cabinet for spool-thread	353,572	Nov. 30	2595	693	37	976
Meyers, George, Cameron, Pa. Neck-yoke	341,674	May 11	984	260	35	697
Meyers, George, Cameron, Pa. Apparatus for heating tires	342,530	May 25	2182	578	35	933
Meyers, George, Cameron, Pa. Tire-setter	353,153	Nov. 23	1995	534	37	857
Meyers, Hienerie, Rush City, Minn. Spool-holder for sewing-machines	337,852	Mar. 16	1303	338	34	1173

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg's.	Official Gazette. Vol.	Official Gazette. Page.
Meyers, John G., assignor of one-half to H. L. Cranford, Washington, D. C. Fire-proof door and ceiling	354,565	Dec. 21	1334	353, 354	37	1263
Meyers, Julius R., San Francisco, Cal. Preventing the obstruction of streets at fires	349,051	Sept. 14	709	181	36	1181
Meyrose, Ferdinand, St. Louis, Mo. Lantern	353,573	Nov. 30	2596	693	37	977
Meyrose, Ferdinand, St. Louis, Mo. Lamp	355,194	Dec. 28	2236	590	37	1445
Meysenburg, Theodore A. (See Westenholm, George, assignor.)						
Miannay, Eugene. (See David, Augustin O., assignor.)						
Michael, Edward. (See Jewett, Edward M., assignor.)						
Michael, George W., Oberlin, assignor of one-half to S. E. and A. S. Brooks, Cleveland, Ohio. Pen-holder	346,670	Aug. 3	278	76	36	515
Michael, William E., Reading, Pa. Window sash and frame	333,654	Jan. 5	204	56	34	40
Michael, William S., *et al.* (See Geib, David W., assignor.)						
Michaelis, Ernest R., Sycamore, Ohio. Halter	339,996	Apr. 13	1290	322	35	237
Michaelis, Hugo, Berlin, Prussia, assignor to Gebr. Stollwerck, Cologne-on-the-Rhine, Germany. Manufacture of effervescent sugar	342,624	May 25	2318	.....	35	959
Michaelis, Otho E., Philadelphia, assignor of one-half to H. Bower, Gray's Ferry Road, Philadelphia, Pa. Obturating-primer	333,655	Jan. 5	206	56	34	40
Michaels, Albert. (See Michales and Michaels.)						
Michaels, Frederick. (See Gaszner, John P., assignor.)						
Michales, Moses A., Allegheny, and A. Michaels, Pittsburg, Pa. Electrical pumping apparatus	354,838	Dec. 21	1727	457	37	1336
Michaud, Charles E., St. Michel d'Yamaska, Quebec, Canada. Car-coupling	346,936	Aug. 10	627	169	36	589
Michel, Helene, *et al.* (See Michel, Philip, assignor.)						
Michel, Philip, assignor to H. Michel, Stapleton, and J. Rabing, New York, N. Y. Frame for stretching window-shades	341,594	May 11	867	231	35	674
Michelotti, Pietro, San Francisco, Cal. Buoy attachment for vessels	338,859	Mar. 30	2705	712	34	1440
Michell, Carl H. (See Hambujer, Ephraim, assignor.)						
Michell, Monckton W. (See Dorwart, Benjamin K., assignor.)						
Michelson, Christian, St. Paul, Minn. Window-cleaner	341,595	May 11	868	231	35	674
Michelson, Sigismund M., assignor of one-half to G. Sylvester, Milwaukee, Wis. Trunk or furniture caster	349,948	Sept. 28	1940	501	36	1433
Michigan Lubricator Company. (See Krantz, Fredrich W., assignor.)						
Michigan Manufacturing Company. (See Rooke, William, assignor.)						
Michigan School Furniture Company. (See Bailey, Franklin H., assignor.)						
Michigan Stove Company. (See Clapp and Keep, assignors.)						
Michon, George E., Essex, N. Y. Forging-roller for nail-machines	354,648	Dec. 21	1466	389	37	1287
Middaugh, Jacob, and C. M. Wilcox, New Paris, Ohio. Portable fence-machine. (Reissue.)	10,687	Feb. 9	1398	369, 370	34	697
Middaugh, Jacob, and C. M. Wilcox, New Paris, Ohio. Portable fence-machine	347,190	Aug. 10	989	234	36	655
Middleditch, Walter, Detroit, Mich. Lathe attachment	335,609	Feb. 9	733	195	34	579
Middlemas, George, San Francisco, Cal. Apparatus for rolling leather	333,773	Jan. 5	379	103	34	72
Middleton, Frank, Richmond, Va. Clay-tempering machine	343,472	June 8	1044	260	35	1203
Middleton, Frank, Richmond, Va. Hoe and rake	344,590	June 29	2582	668	35	1505
Middleton, Henry, Houlton, Me. Wooden shovel	352,341	Nov. 9	891	239	37	630
Middleton, Robert O., Camden Point, Mo. Mechanical telephone	336,731	Feb. 23	2350	615	34	879
Midgley, Sam, Lowell, Mass. Card-setting machine	348,529	Aug. 31	2924	786	36	1038
Midgley, William H., Pittsburg, Pa., assignor to J. J. Wood Starch Company, Columbus, Ohio. Laundry-starch. (Reissue)	10,722	May 11	1233	339	35	746
Miehle, Robert, Chicago, Ill. Cushioning apparatus for printing-machines	337,853	Mar. 16	1304	338, 339	34	1173
Miehle, Robert, Chicago, Ill. Air-cushion for printing-presses	345,527	July 13	1035	263	36	191
Miehle, Robert, Chicago, Ill. Inking apparatus for printing-machines	347,364	Aug. 17	1239	330, 331	36	709
Miehle, Robert, Chicago, Ill. Sheet-delivery apparatus for printing-machines	352,653	Nov. 16	1291	348, 349	37	714
Miehling, Charles, New York, N. Y. Bobbin inserting and ejecting attachment for sewing-machines	351,992	Nov. 2	387	105	37	530
Mignault, Eusebe, assignor of one-half to J. R. Davis, New York, N. Y. Chimney-cap	343,186	June 8	602	149	35	1125
Mihills, Uriah D., Fond du Lac, Wis. Gravity-latch	350,354	Oct. 5	223	65	37	47
Mikel, Jane, Gillum, Ill. Combined squeezer and strainer	337,185	Mar. 2	408	106	34	1001
Milam, B. R. (See Basham, Wesley H., assignor.)						
Milburn, Thomas N., *et al.* (See Miller, John H., assignor.)						
Mild, William, Hamilton, Ohio. Elevator-bucket	340,889	Apr. 27	2547	671	35	474
Mild, William, Cincinnati, Ohio. Link	349,949	Sept. 28	1941	502	36	1433
Miles, Benjamin J., and M. Dunne, Girard, Ohio. Car-coupling	347,006	Aug. 10	722	191	36	606
Miles, Edward J., assignor of one-half to H. M. Cox, Kellogg, Iowa. Fence-wire stretcher	334,536	Jan. 19	1480	397	34	287
Miles, Franklin L., Elkhart, Ind. Instrument for measurements for spectacles	339,676	Apr. 13	857	210	35	157
Miles, George N., Northampton, Mass. Grave-stone support	343,671	June 15	1314	329	35	1258
Miles, Jackson B., assignor to himself, T. H. Remsen, and W. T. Murray, Lincolnton, Ga. Motor	334,263	Jan. 12	1107	296	34	213
Miles, Manoah, Russell, Kans. Railway-switch	345,440	July 13	895	223	36	166
Miles, Walter, Chilton, Wis. Toaster	338,097	Mar. 16	1649	428	34	1236
Miles, William A., Copake Iron Works, N. Y. Charcoal-kiln. (Reissue)	10,746	July 20	1827	472	36	342
Miles, William A., Copake Iron Works, N. Y. Joint for metal pipes	347,947	Aug. 24	2094	557	36	876
Miley, Henry P., Valdosta, Ga. Seed-planting and fertilizer-distributing attachment for hand-plows	350,835	Oct. 12	1043	279	37	198
Millar, James, and G. Feeny, Amabel, Ontario, Canada. Boiler-cleaner	348,530	Aug. 31	2927	786	36	1038
Millar, John, Bethnall House, Cambridge Road, county of Middlesex, England. Time-check	354,921	Dec. 28	1851	490	37	1372
Millard, Clifford L., Burlington, Iowa. Apparatus for painting shingles	350,987	Oct. 19	1284	337	37	248
Millard, George W., and J. H. Clarke, Providence, R. I., assignors to Synchronous Time Company of Portland, Me. Regulating pendulum-clocks from a distance	337,416	Mar. 9	726	188	34	1065
Millard, George W., and J. H. Clarke, Providence, R. I., assignors to Synchronous Time Company of Portland, Me. Regulating pendulum-clocks from a distance	337,417	Mar. 9	729	188	34	1066
Millard, George W., Providence, R. I., and J. H. Clarke, Boston, Mass., assignors to Synchronous Time Company of Portland, Me. Regulating marine clocks from a distance	337,418	Mar. 9	733	189	34	1066
Millard, George W., Providence, R. I., and J. H. Clarke, Boston, Mass., assignors to Synchronous Time Company of Portland, Me. Apparatus for regulating pendulum-clocks from a distance	337,419	Mar. 9	735	189	34	1067
Millard Manufacturing Company. (See Turner, William A., assignor.)						
Millard, Martin S., assignor of one-half to W. H. H. Tainter, Kansas City, Mo. Window	339,677	Apr. 13	858	210, 211	35	157
Millard, Martin S., assignor to W. H. H. Tainter, Kansas City, Mo. Refrigerator	348,855	Sept. 7	418	113	36	1125

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Millard, Sarah M. B., (formerly Sarah M. Beverly,) Rochester, Ind. Auxiliary seat for vehicles	336,785	Feb. 23	2421	637	34	893
Millen, Denane. (See Millen, Homer C. and D.)						
Millen, George H., and A. Derouin, Hull, Quebec, Canada. Dovetailing-machine	336,130	Feb. 16	1478	390, 391	34	719
Millen, Homer C. and D., South Bend, Ind. Manufacturing hydraulic cement	343,913	June 15	1636	418	35	1320
Miller, Abiud G., Leyden, N. Y. Gate for railway-crossings	344,540	June 29	2520	650	35	1493
Miller, Abraham, Newark, Ohio, assignor to Newark Machine Company. Drill	339,572	Apr. 6	680	165, 166	35	122
Miller, Albert F., Camden, N. J. Spring bed-bottom	341,494	May 11	726	195	35	647
Miller, Albert S., Indianapolis, Ind. Locomotive ash-pan	354,165	Dec. 14	759	204	37	1151
Miller, Alexander. (See Mason and Miller.)						
Miller, Allen T. (See Black and Miller.)						
Miller, Allen T., *et al.* (See Black, Henry, assignor.)						
Miller, Andrew C., assignor to D. M. Osborne & Co., Auburn, N. Y. Grain-binding machine	339,573	Apr. 6	681	166, 167	35	123
Miller, August, St. Louis, Mo. Ventilating freight-cars	344,848	July 6	71	13	36	13
Miller, August H., Lorain, Ohio. Monument	352,422	Nov. 9	988	266	37	651
Miller, Bion H., Bay City, Mich. Saw-swage	351,520	Oct. 26	2056	533	37	395
Miller, Bradford, *et al.* (See Miller, Richard W., assignor.)						
Miller Calk Company. (See Miller, William H., assignor.)						
Miller, Charles, Auburn, N. Y. Grain-binder	340,342	Apr. 20	1787	458, 459	35	333
Miller, Charles, assignor to J. Stoupe, Auburn, N. Y. Mop-wringer	348,033	Aug. 24	2210	590	36	897
Miller, Charles E., Indianapolis, Ind. Fence-machine	348,570	Sept. 7	49	14	36	1056
Miller, Charles L. (See Miller, James P. and C. L.)						
Miller, Charles R., Lansingburg, N. Y. Holdback attachment for harness	334,883	Jan. 26	1939	516	34	380
Miller, Charles R., Lansingburg, N. Y. Strap-plate for harness	352,996	Nov. 23	1757	471	37	810
Miller, Charles W., assignor of one-half to J. A. Jeffery, Columbus, Ohio. Drive-chain	339,003	Mar. 30	2923	774	34	1478
Miller & Co., Edward. (See Brewer, Roland L., assignor.)						
Miller & Co., Edward. (See Kinney, Charles A., assignor.)						
Miller & Co., Edward. (See Perkins, Russell B., assignor.)						
Miller & Company, Edward. (See Cooper, George L., assignor.)						
Miller, David G., Cleveland, Ohio. Hame-fastener	354,430	Dec. 14	1128	302	37	1220
Miller, David L., Trinidad, Colo., assignor to W. H. Ely, New York, N.Y. Crossing-guard	353,368	Nov. 30	2293	612	37	919
Miller, David W., Detroit, Mich. Cash and parcel carrier	342,921	June 1	209	54	35	1043
Miller, Edgar E., Canton, Ohio. Oil-can	344,975	July 6	248	63	36	45
Miller, Eli, Canton, Ohio. Fence-making machine	337,420	Mar. 9	738	189	34	1067
Miller, Frank. (See Norwood, George, assignor.)						
Miller, Frank, Olema, assignor of one-fourth to U. M. Gordon, San Rafael, Cal. Car-coupling	342,028	May 18	1447	388	35	793
Miller, Fred W., Caledonia, N. Y. Bean-harvester	345,981	July 20	1692	436	36	317
Miller, Frederick, Mendocino, Cal. Insertible saw-tooth	342,029	May 18	1448	388	35	793
Miller, Frederick T., Fredericksburg, Va. Sulky-plow	345,068	July 6	378	95	36	69
Miller, Frederick W., and J. J. Newman, Elkhart, Ind. Paper-making	340,810	Apr. 27	2443	643	35	457
Miller, Fredrick C., Newport, Ky. Cigar-bunching machine	344,285	June 22	2164	555	35	1421
Miller, Gebhard, Newark, N. J. Truss	334,968	Jan. 26	2048	546	34	400
Miller, George E. (See Miller, John W., assignor.)						
Miller, George S. (See Lewis, Leroy S., assignor.)						
Miller, George W., *et al.* (See Brose, David, assignor.)						
Miller, George W. (See Crebb, Koch, and Miller.)						
Miller, George W., Clarinda, Iowa. Attachment for windmills	337,421	Mar. 9	740	190	34	1067
Miller, George W., Meriden, Conn. Pocket-knife	351,787	Nov. 2	83	23	37	474
Miller, George W., Woonsocket, R. I. Machine for pressing fabrics	352,253	Nov. 9	771	206	37	607
Miller, Harrison S., assignor of one-half to P. J. Freaney, Indianapolis, Ind. Swivel pipe-coupling	353,154	Nov. 23	1996	534	37	857
Miller, Harry, Morristown, Ind. Railway-frog	346,671	Aug. 3	279	77	36	515
Miller, Horace E., Newark, N. J., assignor of one-half to J. L. Ferguson, Larchmont Manor, N. Y. Manufacturing mirror-backs from plastic material and the product thereof	345,982	July 20	1693	437	36	317
Miller, Horace E., Newark, N. J., assignor of one-half to J. L. Ferguson, Larchmont Manor, N. Y. Manufacture of backs for brushes from celluloid and other plastic material	345,983	July 20	1695	437	36	317
Miller, Henry. (See Buchholz, Hermann, assignor.)						
Miller, I. Amos, Westminster, Md. Harness breast-strap	334,128	Jan. 12	880	241	34	171
Miller, Jacob, Canton, Ohio. Grain-tally	344,395	June 29	2316	597	35	1457
Miller, Jacob, Canton, Ohio. Bag-holder	348,986	Sept. 14	612	161	36	1165
Miller, Jacob N., Bellefontaine, Ohio. Carriage	353,322	Nov. 30	2229	597	37	907
Miller, James, Detroit, Mich. Telephone mouth-piece	337,972	Mar. 16	1474	383	34	1204
Miller, James P., Boston, Mass. Back-pad for harness	341,495	May 11	726	195	35	647
Miller, James P., Kenney, and C. L. Miller, Ridgeville, Ill. Ball-joint coupler	344,918	July 6	171	44	36	32
Miller, James R., *et al.* (See Hill, Charles S., assignor.)						
Miller, James T., Atlanta, Ga. Loose pulley	333,962	Jan. 5	635	175	34	120
Miller, James W., Central City, Nebr. Clothes-drying apparatus	347,248	Aug. 10	1066	286	36	670
Miller, James W., assignor to himself and A. W. Baird, Butler, Pa. Coffee and spice mill	345,441	July 13	897	223	36	167
Miller, Jeremiah. (See Chamberlain and Miller.)						
Miller, John, Cambridgeport, Mass. Screw-threading device	338,282	Mar. 23	1891	497	34	1290
Miller, John, Cambridge, Mass. Device for releasing animals	345,799	July 20	1440	373	36	272
Miller, John, assignor of one-half to L. Gebhard, Buffalo, N. Y. Car-coupling	344,127	June 22	1943	496	35	1321
Miller, John A., Cairo, Ill. Railway-train signal	341,677	May 11	989	261	35	699
Miller, John C., Dunkirk, Ohio. Saw-mill dog	354,207	Dec. 14	826	219	37	1164
Miller, John E., assignor of one-half to A. H. Heisey, Pittsburg, Pa. Gas-regulator	337,012	Mar. 2	180	47	34	957
Miller, John E., assignor to G. Duncan & Sons and Bryce Brothers, Pittsburg, Pa. Manufacture of glass shoes or slippers	351,197	Oct. 19	1567	411	37	300
Miller, John F. (See Paull, Arnold W., assignor.)						
Miller, John F., Martin's Ferry, Ohio, assignor of one-half to A. W. Paull, Wheeling, W. Va. Manufacture of lantern-globes, &c	337,692	Mar. 9	1091	282	34	1128
Miller, John G., Champaign, Ill. Hame-tug	348,987	Sept. 14	613	161	36	1165
Miller, John H., assignor of one-half to C. A. Zerbe, Lewistown, Pa. Wrench	333,963	Jan. 5	637	175	34	120
Miller, John H., assignor of one-half to J. F. McKelvey and T. N. Milburn, Jefferson County, Ill. Vehicle running-gear	343,248	June 8	692	171	35	1141
Miller, John S. (See Norris, Schuyler C., assignor.)						
Miller, John T., Chicago, Ill. Trestle	343,829	June 15	1528	385	35	1298
Miller, John W., assignor of one-half to G. E. Miller, Mount Sterling, Ky. Wrench	342,119	May 18	1582	422	35	818
Miller, Jonas N., Decatur, Ill. Handkerchief-exhibitor	337,422	Mar. 9	741	190	34	1068
Miller, Joseph A., *et al.*, trustees. (See Anthony, Edgar W., assignor.)						
Miller, Joseph A., Galva, Ill. Display-rack	336,935	Mar. 2	70	19	34	939

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Miller, Joseph A., Providence, R. I. Thermostat	340,890	Apr. 27	2547	671	35	474
Miller, Joseph C., Chelsea, Mass. Self-closing faucet	343,830	June 15	1529	386	35	1298
Miller, Lemuel D., Collamer, Pa. Measuring-vessel	350,313	Oct. 5	283	81	37	57
Miller, Levi M. S., Findlay, Ohio. Washing-machine	336,338	Feb. 16	1809	474	34	775
Miller, Lewis. (See Myers, Levi, assignor.)						
Miller, Lewis, Akron, Ohio. Grain-binding harvester	335,610	Feb. 9	734	195, 196	34	579
Miller, Lewis, Akron, Ohio. Grain-binding harvester	341,675	May 11	985	260	35	697
Miller, Lewis, Akron, Ohio. Grain-binding harvester	341,676	May 11	987	261	35	698
Miller, Lewis, Akron, Ohio. Grain-binder	346,491	Aug. 3	53	13, 14	36	470
Miller, Lewis, Akron, Ohio. Harvester butt-board	352,557	Nov. 16	1155	312	37	689
Miller, Martin L., Oregon City, Oreg. Sliding-grate attachment for stove-ovens	347,007	Aug. 10	722	191	36	606
Miller, Metcalf & Parkin. (See Parkin, Charles, assignor.)						
Miller, Oliver A. (See Tyler, Abel D., Jr., assignor.)						
Miller, Oliver A. (See Wellman, Alexander R., assignor.)						
Miller, Philip, Sharpsburg, Pa. Wire basket for cooking utensils	348,988	Sept. 14	614	162	36	1165
Miller, Rachel. *et al.* (See Miller, Richard W., assignor.)						
Miller, Richard W., assignor to E. H. Taylor, J. Tolbert, D. G. Slafter, R. and B. Miller, Vassar, Mich. Machine for cutting paving-blocks	340,672	Aug. 3	279	77	36	515
Miller, Robert B., Chicago, Ill. Wall-protector for steam-coils	334,794	Jan. 26	1831	488	34	361
Miller, Robert W., Allegheny City, and J. McConnell, Pittsburg, Pa. Oil-well casing	344,849	July 6	72	18	36	14
Miller, Samuel, Pierre, Dak. Ter. Bundle-carrier	336,251	Feb. 16	1686	440	34	752
Miller, Samuel, Mohawk, N. Y. Electric-railway system	343,719	June 15	1401	349	35	1273
Miller, Samuel A., Philadelphia, Pa. Composition for making sewer invert-blocks	336,732	Feb. 23	2351	615	34	879
Miller, Samuel J., and M. J. McKenna, Minneapolis, Minn. Carpet-cleaning reel	336,936	Mar. 2	71	19	34	939
Miller, S. Harrison. (See Proctor and Miller.)						
Miller, Thomas J., assignor of one-half to G. W. Henry, North Manchester, Ind. Broadcast seed-sower	336,421	Feb. 16	1919	503	34	796
Miller, Thomas R. (See Hildreth and Miller.)						
Miller, Walter, Cleveland, and F. E. Frey, Bucyrus, Ohio. Steam-engine governor	353,957	Dec. 7	444	121	37	1087
Miller, William, Brantford, Kans. Incubator	347,249	Aug. 10	1068	286	36	670
Miller, William, Grand Rapids, Mich. Oven	336,937	Mar. 2	72	19	34	939
Miller, William, Grand Rapids, Mich. Oven for oil, gas, or gasoline stoves	350,635	Oct. 12	763	209	37	146
Miller, William, Woonsocket, R. I. Expanding reamer	342,218	May 18	1700	453	35	841
Miller, William B., Hampton, Ark. Combination scraper, clod-guard, and gage	334,082	Jan. 12	816	223	34	159
Miller, William B., Altoona, assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental matrix	351,065	Oct. 19	1386	364	37	266
Miller, William D., Springfield, Ohio. Horse hay-rake	348,230	Aug. 31	2510	674	36	958
Miller, William F., Butler, Pa. Revolving exhibitor	352,707	Nov. 16	1373	371	37	730
Miller, William G., Arkansas City, Kans. Tuyere	338,543	Mar. 23	2247	590	34	1353
Miller, William H., South Bend, Ind. Street-sprinkler	336,252	Feb. 16	1688	440	34	752
Miller, William H., Brandenburg, Ky. Cooking-stove	354,922	Dec. 28	1852	490	37	1372
Miller, William H., assignor to Miller Calk Company, Cincinnati, Ohio. Detachable calk for horseshoes	341,038	May 4	86	24	35	521
Miller, William J., Colorado, Tex. Wheel-hub	345,716	July 20	1315	340	36	250
Miller, William L. (See Mitchell, George R., assignor.)						
Miller, Willis E., New Haven, Conn. Die for forging axle-flaps	346,306	July 27	2140	551	36	410
Miller, Zachary T. (See Taylor, James H., assignor.)						
Millet, Adelard, St. John Baptist Parish, La. Cane-stubble shaver and destroyer	339,916	Apr. 13	1174	292	35	216
Millet, John W., Dolgeville, assignor to A. Dolge, New York, N. Y. Machine for cutting felt and other materials	348,763	Sept. 7	308	82	36	1104
Milligan, John F., St. Louis, Mo. Automatic grain-weighing apparatus	344,192	June 22	2036	520	35	1398
Milligan, Thomas P., South Orange, N. J. Gelatinized pelt	333,964	Jan. 5	637	.....	34	120
Milligan, William A., Wheeling, W. Va. Door-bell	336,864	Feb. 23	2520	604	34	911
Milliken, A. C., *et al.* (See Graham, William H., assignor.)						
Milliken, George, assignor of one-half to J. C. Bike, Oneco, Ill. Device for supplying salt to stock	338,761	Mar. 30	2575	679	34	1416
Milliken, George F., Boston, Mass. Apparatus for automatically testing electrical circuits	334,969	Jan. 26	2049	547	34	400
Milliken, Roscoe S., *et al.* (See Hanson, Charles M., assignor.)						
Millikin, John H. (See Smith and Millikin.)						
Millington, Jerome W. (See Tickner, Arvin C., assignor.)						
Millner, George W., Charlottetown, Prince Edward Island, Canada. Ash-sifter	347,250	Aug. 10	1069	286	36	670
Millot, James. (See Millot, Theophilus and J.)						
Millot, Theophilus and J., New York, N. Y. Transferring a precipitated or reduced metal	345,442	July 13	898	.....	36	167
Millot, Theophilus and J., New York, N. Y. Metal-faced fabric or material for interior decorations, &c	347,497	Aug. 17	1429	380	36	744
Mills, Chauncey W., Rochester, N. Y. Car-coupling	336,422	Feb. 16	1920	503	34	796
Mills, Columbus W. (See Emerson, John W., assignor.)						
Mills, Francis E., Pittsburg, Pa. Gas-burner attachment	353,494	Nov. 30	2478	662	37	954
Mills, George E., New York, N. Y. Frame for drying-houses	354,727	Dec. 21	1572	416	37	1307
Mills, George H. (See Baillie and Mills.)						
Mills, James, Keyspoft, Ill. Combined roller and cultivator	352,928	Nov. 23	1661	446	37	793
Mills, James R. (See Ballentine, John C., assignor.)						
Mills, Joban E., Chicago, Ill. Rotary steam-engine	343,831	June 15	1530	386, 387	35	1298
Mills, John L. (See King and Mills.)						
Mills, Joseph, assignor of one-half to T. A. Sprague, Cornell, Ill. Combined pump and motor	340,343	Apr. 20	1793	459	35	334
Mills, Mortimer B. (See Ferrar and Mills.)						
Mills, Mortimer B., Chicago, Ill. Mechanical movement for operating gate-bars, switches, signals, and the like	348,856	Sept. 7	422	114	36	1125
Mills, Mortimer B., assignor to Safety Gate Company, Chicago, Ill. Gate	343,249	June 8	693	171, 172	35	1141
Mills, Mortimer B., assignor to Safety Gate Company, Chicago, Ill. Gate	346,121	July 27	1875	484	36	359
Mills, Simeon. (See Mack and Hansen, assignors.)						
Mills, Simeon, Madison, Wis. Duplex steam-valve	353,457	Nov. 30	2428	648	37	945
Mills, Thomas B. (See Levison, Chancellor G., assignor.)						
Miltenberger, Emile R., Cuero, Tex. Cultivator	344,001	June 22	1757	452	35	1349
Miltimore, George W., Arlington, Vt., assignor to United States Car Wheel Dressing Company, Chicago, Ill. Dressing and hardening metal surfaces	347,948	Aug. 24	2094	557, 558, 559	36	876
Miltimore, George W., Arlington, Vt., assignor to United States Car Wheel Dressing Company, Chicago, Ill. Machine for dressing and hardening car-wheels and other bodies	347,949	Aug. 24	2100	559, 560, 561	36	876
Miltimore, George W., Arlington, Vt., assignor to United States Car Wheel Dressing Company, Chicago, Ill. Car-wheel	347,950	Aug. 24	2105	561	36	877

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Miltimore, George W., Arlington, Vt, assignor to United States Car Wheel Dressing Company, Chicago, Ill. Machine for dressing car-wheels	347,951	Aug. 24	2107	561 / 562	36	877
Miltimore, J. Harvey, and H. M. Underwood, Waukegan, Ill.; said Miltimore assignor to said Underwood. Machine for trimming wall-paper	346,307	July 27	2141	551 / 552	36	410
Milton, Samuel A., Clinton, Mo. Percolator for coffee-pots	335,946	Feb. 9	1215	323	34	665
Milwaukee Chair Company. (See Graves, Peter T., assignor.)						
Milwaukee Dust Collector Manufacturing Company. (See Richardson, William, assignor.)						
Milwaukee Harvester Company *et al.* (See Bullock, Joseph P., assignor.)						
Minch, Louis, Highlandtown, Md. Cask	355,195	Dec. 28	2237	590	37	1446
Mindeleff, Demetry, San Francisco, Cal. Extracting nickel and cobalt from ores	354,923	Dec. 28	1854	490	37	1372
Mineo, John C., Bunker Hill, Ill. Tube-cutter	340,344	Apr. 20	1795	460	35	334
Miner, Ephraim. (See Walker and Miner.) (Reissue.)						
Miner, James A., and W. H. McLaughlin, Chicago, Ill. Bustle	341,427	May 4	631	172	35	619
Miner, Russell H., Atkinson, Nebr. Hay-burning apparatus	337,854	Mar. 16	1307	339	34	1173
Miner, Winfield S., and R. F. Fore, Turney Station, Mo. Car-coupling	342,625	May 25	2318	612	35	959
Minetto Shade Cloth Company. (See Benjamin, Edwin P., assignor.)						
Minger, John A., Sabetha, Kans. Harrow	337,186	Mar. 2	409	106	34	1001
Mingle, George W., and W. T. Brown, assignors to said W. T. Brown, Philadelphia, Pa. Protector for electric wires and instruments	352,342	Nov. 9	892	239	37	630
Mink, Fritz, Philadelphia, Pa. Commode	344,052	June 22	1833	471	35	1361
Minneapolis Harvester Works. (See Anderson, Charles A., assignor.)						
Minneapolis Harvester Works. (See Appleby, John F., assignor.)						
Minnich, Elias, Union, Mich. Combined corn huller and cultivator	340,345	Apr. 20	1796	460	35	334
Minnick, James A., Elwood, Ind. Machine for making picket fences	351,646	Oct. 26	2245	581	37	499
Minnitt, John E., and J. H. Vickers, Nottingham, England. Apparatus for automatically closing the tap-holes of casks	334,970	Jan. 26	2053	547	34	401
Minton, Harry C., assignor of one-half to T. Staniland, Dayton, Ohio Hame-fastener	335,375	Feb. 2	406	104	34	514
Mintzer, St. John W. (See Banks, Charles M., assignor.)						
Mitchell, Abraham, Bradford, county of York, England. Manufacturing woven fabrics	346,673	Aug. 3	280	.....	36	515
Mitchell, Alexander, Wilkes-Barré, Pa. Spark-arrester for locomotives	354,339	Dec. 14	1021	271 / 272	37	1200
Mitchell, Charles J., St. Clair, Mich. Wall-paper-exhibiting device	348,764	Sept. 7	310	83	36	1105
Mitchell, Charles L., Covington, Ky. Device for the consumption of liquid fuel	351,390	Oct. 26	1838	482 / 483	37	354
Mitchell, Charles L., Cincinnati, Ohio. Device for the conduction of liquid fuel	351,391	Oct. 26	1842	483	37	355
Mitchell, Dora, Ottumwa, Iowa. Picture-hanger	351,932	Nov. 2	300	83	37	512
Mitchell, Frederick J., assignor to A. L. Cohn, New York, N. Y. Apparatus for disinfecting water-closets, &c	343,593	June 15	1207	303	35	1240
Mitchell, George R., assignor of one-third to W. L. Miller, Chillicothe, Ohio. Device for transmitting motion	341,506	May 11	869	231 / 232	35	675
Mitchell, Harvey J., Hatborough, Pa. Steam-boiler	334,673	Jan. 19	1667	445	34	322
Mitchell, Hiram, Scottdale, Pa. Carving device	345,528	July 13	1038	263	36	192
Mitchell, Isaac, Woodbine, Iowa. Car-coupling	349,400	Sept. 21	1185	307	36	1280
Mitchell, J. Henry, Philadelphia, Pa. Machinery for printing upon matches	339,917	Apr. 13	1175	292	35	246
Mitchell, J. Henry, Philadelphia, Pa. Pan for bakers' use	344,193	June 22	2037	521	35	1398
Mitchell, J. Henry, Philadelphia, Pa. Pan for bakers' use	344,194	June 22	2038	521	35	1399
Mitchell, James C., Lancaster, assignor, by mesne assignments, to said Mitchell and B. F. Brown, Concord, N. H. Car-coupling	343,473	June 8	1046	260	35	1203
Mitchell, James H., Sewall's Station, W. Va. Washing-machine	339,004	Mar. 30	2924	774 / 775	34	1478
Mitchell, Jehu, Newark, Ohio. Scaffold-bracket for ladders	349,232	Sept. 14	959	244	36	1228
Mitchell, John, Louisville, Ky. Steam-boiler attachment	335,947	Feb. 9	1216	323	34	665
Mitchell, John A., assignor of one-half to I. S. Swearingen, Wapella, Ill. Grain-weighing apparatus	342,261	May 18	1762	468	35	852
Mitchell, John E., Fowler, Ind. Device for raising barrels	335,376	Feb. 2	407	104	34	514
Mitchell, John J. (See Benns, George, assignor.)						
Mitchell, John S., *et al.* (See Crosbie, James H., assignor.)						
Mitchell, Joseph H., Kansas City, Mo. Metal-faced building-block	337,693	Mar. 9	1093	282	34	1129
Mitchell & Lewis Company. (See Tecktonius, Emil C., assignor.)						
Mitchell, Marshall B., *et al.* (See Kleese, Wilson, assignor.)						
Mitchell, Merit F., Marquette, Wis. Washing-machine	351,993	Nov. 2	389	105	37	531
Mitchell, Robert, Atlanta, Ga. Mosquito canopy	338,428	Mar. 23	2100	550	34	1337
Mitchell, Rufus S., Beardstown, Ill. Pitman	348,034	Aug. 24	2211	590	36	897
Mitchell, Samuel. (See Beebe, Oscar, assignor.)						
Mitchell, Thomas, Brooklyn, N. Y. Buckle	342,120	May 18	1584	422	35	819
Mitchell, Thomas S., Chicago, Ill. Rein-holder	335,141	Feb. 2	59	16	34	451
Mitchell, William, Richmond, Va Method of strengthening drawers	342,626	May 25	2319	612	35	959
Mitchell, William A., Lawrence, assignor of one-half to J. A. Simpson, Terrell, W. H. Brooks, J. T. Airhart, and T. J. Crister, Lawrence, Tex. Car-coupling	350,836	Oct. 12	1045	279	37	198
Mitchell, Willis M., *et al.* (See Vladyka, Joseph, assignor.)						
Mitchum, John B., Munfordville, Ky. Tobacco-plant setter	334,029	Jan. 12	737	201	34	145
Mitsch, John A. (See Otto, Mertes, and Mitsch.)						
Mitscherlich, Alexander, Freiburg, Baden, Germany. Sizing paper	336,013	Feb. 9	1302	.....	34	680
Mitscherlich, Alexander, Freiburg, Baden, Germany. Boiling fibers with sulphites for the manufacture of paper-pulp	337,694	Mar. 9	1093	282	34	1129
Mitscherlich, Alexander, Freiburg, Baden, Germany. Paper-pulp	344,323	June 22	2209	568 / 569	35	1429
Mitts, Sylvanis S., *et al.* (See Pake, Edward G., assignor.)						
Mix, Charles M. (See Byerley, Francis X., assignor.)						
Mix, Frank W., New Britain, Conn. Hasp-lock	344,002	June 22	1757	453	35	1349
Mix, Frank W., New Britain, Conn. Padlock	351,458	Oct. 26	1962	510	37	376
Mix, Frank W., New Britain, Conn. Trunk or box fastener	352,627	Nov. 16	1257	339	37	708
Mix, Frank W., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Trunk-lock	337,187	Mar. 2	410	107	34	1001
Mix, Frank W., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Padlock	344,669	June 29	2682	696	35	1525
Mix, Frank W., and A. Arens, assignors to P. & F. Corbin, New Britain, Conn. Cupboard-latch	333,656	Jan. 5	207	56	34	40
Mizner, L. B. (See Pringle, George W., assignor.)						
Mlicko, Wenzel, St. Louis, Mo. Car-coupling	350,383	Oct. 5	372	107	37	75
Moat, Elijah, Los Angeles, Cal. Oiler	347,251	Aug. 10	1070	286	36	670
Moats, Andrew T., Pleasantville, Iowa. Pick	342,704	May 25	2431	645	35	980
Moats, Lyman, *et al.* (See Carey, John E., assignor.)						
Mobbs, Harry W., and A. Lewis, Kettering, county of Northampton, England. Last for boots or shoes	336,339	Feb. 16	1810	475	34	77

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Mock, A. W. (See Unger, Martin L., assignor.)						
Mock, William L., assignor of one-half to P. Challiss, Woodlawn, Kans. Elevator-spout	346,821	Aug. 3	450	124	36	548
Mockenhaupt, Andrew. (See Clutter and Mockenhaupt.)						
Modlin, Enoch, Edina, Mo. Chicken-coop	340,144	Apr. 20	1493	378	35	279
Moeller, Henry F., Davenport, Iowa. Cylinder washing-machine	335,710	Feb. 9	879	231	34	604
Moeller, Jacob, assignor of one-half to E. Sondermann, Manitowoc, Wis. Table	345,643	July 13	1215	314	36	224
Moen, Philip W. (See Dixon, John A., assignor.)						
Moerath, John N., Kilburn Park Road, county of Middlesex, England. Furnace	353,230	Nov. 23	2096	561	37	877
Moeslein, Valentine, Brooklyn, assignor to T. W. Bracher, New York, N. Y. Sweat-band for hats	354,924	Dec. 28	1856	491	37	1372
Moffatt, Charles H. (See Moffatt, Luke and C. H.)						
Moffatt, John M., New York, and E. Blakeney, Brooklyn, N. Y. Quadruplex telegraphy	351,933	Nov. 2	301	83	37	513
Moffatt, Luke and C. H., Verndale, Minn. Bundle carrier and dropper for harvesters	352,768	Nov. 16	1442	389	37	743
Moffatt, Richard R., assignor to Brooklyn Electric Construction Company, Brooklyn, N. Y. Reversible switch for incandescent lamps	333,657	Jan. 5	208	57	34	40
Moffatt, William E., Chester, S. C. Seed-planter	343,330	June 8	825	207	35	1163
Moffitt, George W., Frankfort, Kans. Listed-corn cultivator	338,180	Mar. 16	1758	459	34	1259
Mohler, Levi H., *et al.* (See Van Horn, William, assignor.)						
Mohr, Luie F., Howard Center, Iowa. Velocipede	354,649	Dec. 21	1467	389 / 390	37	1287
Moles, Edward, assignor of one-half to C. V. R. Pond, Quincy, Mich. Road-cart	354,728	Dec. 21	1574	416	37	1307
Moline Plow Company. (See Lindgren, August, assignor.)						
Möller, Mathias P., Hagerstown, Md. Pipe organ	343,049	June 1	388	99	35	1077
Momburg, Frederick W., Sauk Rapids, Minn. Water-heater	348,989	Sept. 14	615	162	36	1166
Monaghan, John F., assignor, by mesne assignments, to himself and O. B. Smith, Palmer, Mass. Saw-guard	347,884	Aug. 24	2001	531	36	858
Monahan, Joseph L., Milwaukee, Wis. Box-fastener	349,514	Sept. 21	1341	348	36	1311
Mönch, Jacob, assignor to S. Posen, Offenbach, Germany. Book-clasp	339,801	Apr. 13	1024	253	35	187
Monfort, Charles R. (See Dyer and Monfort.)						
Monger, Augustus C. and C., Amboy, Ill. Device for converting reciprocating into rotary motion	337,973	Mar. 16	1475	383	34	1204
Monger, Clifton. (See Monger, Augustus C. and C.)						
Monitor Works. (See Willoughby, John, assignor.)						
Monnier, Delphin. (See Chol and Monnier.)						
Monroe, Charles F., Meriden, Conn. Napkin-ring	345,164	July 6	504	129	36	92
Monroe, Charles W., Bay City, Mich. Refrigerator	336,057	Feb. 9	1367	361	34	691
Monroe, Charles W., assignor to J. H. Monroe, Bay City, Mich. Air-moistener	343,720	June 15	1402	349	35	1274
Monroe, David M., Baltimore, Md. Hand fire-extinguisher	336,658	Feb. 23	2257	588	34	861
Monroe, David M., Baltimore, Md. Can-soldering machine	336,659	Feb. 23	2258	588 / 589	34	861
Monroe, David M., Baltimore, Md. Can-soldering machine	337,277	Mar. 2	532	140	34	1025
Monroe, David M., Baltimore, Md. Can-soldering machine	338,672	Mar. 23	2428	640 / 641	34	1383
Monroe, David M., Baltimore, Md. Automatic device to lock cut-off valves	339,802	Apr. 13	1025	254	35	187
Monroe, David M., Baltimore, Md. Can-soldering machine	353,420	Nov. 30	2372	632	37	934
Monroe, David M., Baltimore, Md. Can-soldering machine	353,421	Nov. 30	2374	633	37	935
Monroe, Edwin A., Saratoga Springs, N. Y. Horseshoe	344,128	June 22	1945	497	35	1381
Monroe, Julia H. (See Monroe, Charles W., assignor.)						
Monroe, William E., Cherryvale, Kans. Window-screen	349,444	Sept. 21	1245	322	36	1291
Monsanto, Mauricio M., assignor to W. A. O. Hegeman, New York, N. Y. Safety-valve	351,198	Oct. 19	1568	412	37	300
Monsanto, Mauricio M., assignor to W. A. O. Hegeman, New York, N. Y. Fluid-pressure regulator	351,276	Oct. 19	1666	437 / 438	37	317
Montague City Rod Company. (See Bartlett, Leander L., assignor.)						
Montague, Francis D., Milford, Mass. Apparatus for distributing oil upon seas	335,035	Jan. 26	2145	570	34	417
Montague, Francis D., Milford, assignor of one-half to G. Draper & Sons, Hopedale, Mass. Apparatus for distributing oil on seas	350,889	Oct. 12	1115	297	37	210
Montague, Francis D., assignor of one-half to G. Draper & Sons, Hopedale, Mass. Anchor for anchoring vessels	352,481	Nov. 9	1059	285	37	664
Montague, W. W. (See Robbins, Frederick A., assignor.)						
Montant, Alphonse, New York, N. Y. Vise	343,187	June 8	603	150	35	1125
Montant, Alphonse, New York, N. Y. Vise	347,365	Aug. 17	1242	331	36	710
Montant, Alphonse, New York, N. Y. Vise	347,366	Aug. 17	1244	331	36	710
Montcalm, Silvarieus R., McDaniel, Ark. Adjustable plow-handle	354,609	Dec. 21	1413	374	37	1276
Monteer, Alexander N., Kansas City, Mo. Freight-car	347,885	Aug. 24	2002	531	36	858
Montelius, Walton H., *et al.* (See Ward, Matthew P., assignor.)						
Montfort, Richardson. (See Woodward and Montfort.)						
Montfort, Richardson, Butler, Ga. Clevis	343,474	June 8	1047	260	35	1204
Montgomery, Archibald, assignor of one-half to T. J. Andress, Philadelphia, Pa. Clothes-line holder	351,199	Oct. 19	1569	412	37	301
Montgomery, Charles H., Branford, Conn. Reversible latch	350,691	Oct. 12	839	226	37	159
Montgomery, George W. (See Howard, Henry G. M., assignor.)						
Montgomery, George W., Grangeville, W. Va. Boring-machine	344,976	July 6	249	63, 64	36	45
Montgomery, Harry C., Cleveland, Ohio. Pump	334,795	Jan. 26	1831	488	34	361
Montgomery, Harry C., Cleveland, Ohio. Beer-pump	348,333	Aug. 31	2639	712	36	985
Montgomery, Harry M., Boston, Mass. Expansible connecting-pin	337,072	Mar. 2	249	66	34	972
Montgomery, James E., and W. C. Hatcher, Norborne, Mo. Gage	346,592	Apr. 27	2142	554	35	405
Montgomery, James M., Jr., Columbus, Ohio. Check-punching machine	334,264	Jan. 12	1108	297	34	213
Montgomery, James M., Jr., Columbus, Ohio. Folding bedstead	354,729	Dec. 21	1575	417	37	1307
Montgomery, Samuel, West Toledo, Ohio. Capstan	346,822	Aug. 3	451	124 / 125	36	548
Montgomery, William, New York, N. Y. Car brake and starter	343,594	June 15	1210	304	35	1240
Montgomery, William M. (See McCormick, John H., assignor.)						
Montgomery, William T., Wakefield, assignor to Star Manufacturing Company, Boston, Mass. Automatic sprinkler	348,531	Aug. 31	2928	787	36	1038
Montgomery, Zachariah, St. Joseph, Mo. Automatic stock-watering trough	351,200	Oct. 19	1570	412	37	301
Montrose, Alvin N., Clay Centre, Kans. Metallic shingle	336,733	Feb. 23	2351	615	34	879
Monumental Bronze Company. (See McKellar, Archibald, assignor.)						
Moock, Otto T., and G. H. Regar, Philadelphia, Pa.; said Moock assignor to said Regar. Ice-carrier	348,858	Sept. 7	427	115	36	1126
Moody, Charles D., *et al.* (See Duryea, Charles E., assignor.)						
Moody, Cyrus M., Greenfield, Mass. School and business tablet	334,537	Jan. 19	1481	397	34	287
Moody, Henry T., assignor to Victor Manufacturing Company, Newburyport, Mass. Door-hanger	335,232	Feb. 2	212	55	34	478
Moody, William F., Chicago, assignor of one-half to W. D. Gibson and C. P. Parish, Cook County, Ill. Staple-tack machine	354,166	Dec. 14	760	204 / 205	37	1152

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Moocrs, Henry C., Toledo, Ohio, assignor to W. A. Bunton, trustee, Cambridge, Mass. Valve-gear	346,492	Aug. 3	55	14	36	470
Moon, Edward A., and E. Pynchon, Chicago, Ill. Stretching-ring	352,769	Nov. 16	1443	389	37	744
Moon, Edward W., St. Louis, Mo. Brake for dumb-waiters	349,258	Sept. 14	987	252	36	1234
Moon, Stover. (See Glock and Moon.)						
Mooney, Walworth M., and H. Estes, Au Sable Chasm, N. Y., said Estes assignor to said Mooney. Machine for making horseshoe-nails	339,574	Apr. 6	683	167, 168, 169, 170, 171, 172, 173	35	123
Mooney, William A., Philadelphia, Pa. Spring bed-bottom	350,265	Oct. 5	225	66	37	47
Moor, Frederich, Chicago, Ill. Boot or shoe	342,806	June 1	43	12	35	1014
Moor, George C., assignor of one-half to J. Stark, Jr., Waltham, Mass. Cannon-pinion for watches	345,800	July 20	1441	373	36	272
Moore, A. H. (See Hartman, Jacob, assignor.)						
Moore, Alexander W. M., Dublin, Ireland. Cleaner for pipes and cigar-holders	340,593	Apr. 27	2143	554	35	405
Moore, Ambrose, Attica, Ind. Outside card-receiver	343,050	June 1	390	99	35	1077
Moore, Arthur L., Englewood, Ill., assignor to American Buttonhole, Overseaming and Sewing Machine Company, Philadelphia, Pa. Support and frame for drawers	343,774	June 15	1167	367, 368	35	1286
Moore, Charles H., Toledo, Ohio. Ice-tongs	354,431	Dec. 14	1129	303	37	1220
Moore, Columbus F., Waveland, Ind. Wagon-brake lever	337,974	Mar. 16	1056	383	34	1204
Moore, Daniel, Brooklyn, N. Y. Sabot for high-explosive projectiles	338,762	Mar. 30	2576	679	34	1416
Moore, David A., Jr. (See Moore, George W. and D. A., Jr.)						
Moore, Edgar W. (See Lange, Philipp, assignor.)						
Moore, Edward B., West Chester, and G. Rehfuss, Philadelphia, Pa., assignor to said Moore. Button-hole sewing-machine	349,445	Sept. 21	1246	323, 324	36	1292
Moore, Edward J., Baltimore, Md. Water-tube boiler	338,429	Mar. 23	2102	550, 551	34	1327
Moore, Edward Y., Chicago, Ill. Car-door	334,452	Jan. 19	1357	368	34	266
Moore, Edward Y., Evanston, assignor to Moore Manufacturing Company, Chicago, Ill. Freight-car door	344,746	June 29	2785	721	35	1543
Moore, Edwin S., Coleman, Mich. Stump-extractor	351,217	Oct. 19	1668	438	37	318
Moore, Frank. (See Westinghouse and Moore.)						
Moore, Frank, Pittsburg, Pa. Pressure-regulator for proportional gas-meters	340,450	Apr. 20	1928	496	35	359
Moore, Franklin D., Bloomfield, Iowa. Ribbon-holder	334,796	Jan. 26	1832	489	34	361
Moore, Franklin D., Bloomfield, Iowa. Revolving lace and ribbon holder	350,147	Oct. 5	72	21	37	16
Moore, Fred D., assignor of one-half to J. A. Moore, Jamestown, N. Y. File	343,136	June 1	525	133	35	1101
Moore, George. (See Dion and Kelly, assignors.)						
Moore, George. (See Ludwig, Thomas J., assignor.)						
Moore, George. (See Sherman, Lewis P., assignor.)						
Moore, George, Rochester, N. Y. Cord attachment for artificial legs	353,369	Nov. 30	2294	612	37	920
Moore, George H., Norwich, Conn. Cleansing filters	337,423	Mar. 9	742	190, 191	34	1068
Moore, George T., *et al.* (See Cole, James W., assignor.)						
Moore, George T., assignor to M. Kamak, New York, N. Y. Spring-clasp	352,770	Nov. 16	1443	389	37	744
Moore, George W., *et al.*, trustees. (See Cole, William R., assignor.)						
Moore, George W., Ercildoun, Pa. Composition for removing paint	338,544	Mar. 23	2248	.....	34	1353
Moore, George W. and D. A., Jr., Guthrieville, Pa. Upholstering-roll	348,634	Sept. 7	141	39	36	1073
Moore, Gideon E., New York, N. Y. Manufacture of paper-pulp	354,432	Dec. 14	1130	303	37	1220
Moore, Hollis W., assignor to Hollis Spring Company, Olean, N. Y. Carriage-spring	336,131	Feb. 16	1480	391	34	720
Moore, Hugh. (See Mumford and Moore.)						
Moore, James A. (See Moore, Fred D., assignor.)						
Moore, James E. (See McDowell, Hudgins, and Moore.)						
Moore, Jesse B., El Dorado, Ark. Back-band hook	334,884	Jan. 26	1940	16	34	381
Moore, Jesse B., El Dorado, Ark. Back-band hook	338,763	Mar. 30	2578	680	34	1416
Moore, Jesse B., El Dorado, Ark. Back-band hook	348,571	Sept. 7	50	14	36	1057
Moore, John A. (See Ingham, John E., assignor.)						
Moore, John J. (See Goeller and Moore.)						
Moore, John N. B., Hartford, Conn. Suspending electric lights or gas or oil lamps	348,407	Aug. 31	2745	737	36	1005
Moore, John P., Snow Hill, Md. Circular-saw mill	341,678	May 11	991	262	35	699
Moore, John R., Newton, Mass. Baby-carriage	334,630	Jan. 12	738	201	34	145
Moore, John R., assignor of one-half to J. B. See, Brooklyn, N. Y. Steam-generator	337,073	Mar. 2	251	67	34	972
Moore, John S., New Orleans, La. Rice-huller and cuticle-remover	333,965	Jan. 5	638	175	34	120
Moore, John W., Lansingburg, N. Y. Air-valve for water-pipes	351,994	Nov. 2	389	106	37	531
Moore, Joseph, San Francisco, Cal. Operating the valves of hydraulic pumping-engines	352,482	Nov. 9	1060	285	37	664
Moore, Josiah W. (See Tunstead and Moore.)						
Moore, Joshua, Marseilles, Ill. Road-grading machine	345,315	July 13	717	181	36	135
Moore, Lee E. (See Davis, Job A., assignor.)						
Moore, Lee E., Boston, Mass. Sole for turned boots or shoes	343,832	June 15	1531	387	35	1299
Moore, Lee E., Boston, Mass., assignor to National Waterproof Shoe Company, Portland, Me. Boot or shoe sole	343,051	June 1	391	99	35	1077
Moore, Matthew R., Indianapolis, Ind. Sand-molding machine	346,380	July 27	2243	575	36	429
Moore, Matthew R., assignor to Pneumatic Company, Indianapolis, Ind. Sand-molding machine	346,379	July 27	2241	574	36	429
Moore, Matthew R., assignor to Pneumatic Company, Indianapolis, Ind. Sand-molding machine	346,381	July 27	2244	575	36	430
Moore, Matthew R., assignor to Pneumatic Company, Indianapolis, Ind. Sand-molding machine	346,382	July 27	2248	575	36	430
Moore Manufacturing Company. (See Moore, Edward Y., assignor.)						
Moore, Noah B. (See Parker, Zachariah T. and B. F., assignors.)						
Moore, Rufus R., Modesta, Cal. Traction-wheel	352,483	Nov. 9	1062	286	37	665
Moore, Samuel, assignor to S. Fenner, Providence, R. I. Machine for making twist-drills	354,069	Dec. 7	605	166	37	1117
Moore, Sanford R., Egan, Dak. Ter. Extension-table	353,574	Nov. 30	2597	693	37	977
Moore, Solon E., assignor to G. W. Squires, Swanton, Vt. Tub-fastener	351,278	Oct. 19	1669	438	37	318
Moore, Stephen, trustee. (See Boynton, George O., assignor.)						
Moore, Stephen J., assignor of one-half to J. C. Light, Walker, Mo. Tire-heater	342,219	May 18	1702	453	35	841
Moore, Thomas. (See Rutherford and Moore.)						
Moore, Thomas A. L., New Orleans, La. Sash-lock	348,334	Aug. 31	2640	712	36	985
Moore, Thomas J., Wacissa, Fla. Egg-preserving apparatus	347,498	Aug. 17	1430	380	36	744
Moore, Walter S. (See Moore, William H., assignor.)						
Moore, William, Mooney, Ind. Lock for wagon-brakes	342,121	May 18	1585	423	35	819
Moore, William, and J. B. Carter, Kokomo, Ind. Ventilator for houses	335,829	Feb. 9	1045	276	34	635
Moore, William H., Palmyra, Mich. Potato-sprinkler	336,938	Mar. 2	73	20	24	940

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Moore, William H., Palmyra, Mich. Sprinkler	353,370	Nov. 30	2294	613	37	920
Moore, William H., assignor to himself and W. S. Moore, Elsie, Mich. Car-coupling	3'1,158	May 4	257	74	35	552
Moore, William M., Empire City, Colo. Carriage-screen	346,857	Aug. 3	506	139	36	569
Moore, William N., Joliet, Ill. Stove	352,558	Nov. 16	1156	312	37	689
Moored, Thomas, Kalamazoo, Mich. Mop	344,454	June 29	2391	616	35	1470
Moorman, James F., Ohio, Iowa. Car-coupling	335,611	Feb. 9	737	196	34	579
Moorman, John B., Dayton, Ohio. Ridge-plow	352,929	Nov. 23	1662	447	37	794
Moorshead, Alfred J., and W. P. Bixby, Attica, Ind. Stock-car	347,632	Aug. 17	1643	435, 436	36	785
Moose, Jasper M., Knoxville, Iowa. Farm-gate	334,797	Jan. 26	1834	489	34	361
Moot, Martin S., New York, N. Y. Soap compound	340,451	Apr. 20	1930	.....	35	359
Moran, Ambrose, Amsterdam, N. Y. Apparatus for dyeing	334,798	Jan. 26	1835	489	34	362
Moran, George T., Burlington, Iowa. Cheese-knife	346,557	Aug. 3	134	37	36	486
Moran, John, Bradford, Pa. Device for drawing standing valves in wells	336,488	Feb. 16	2009	527	34	811
Moran, John D., New York, N. Y. Faucet-bung	346,558	Aug. 3	134	37	36	486
Moran, Peter, New Orleans, La. Safety device for elevators	334,083	Jan. 12	816	224	34	159
Morand, Augustus, Philadelphia, Pa. Method of and apparatus for manipulating comminuted substances	338,430	Mar. 23	2103	551	34	1327
Morand, Augustus, Philadelphia, Pa. Clarifying extracts	338,431	Mar. 23	2106	.....	34	1327
Morava, Wensel, Chicago, Ill. Steam-engine governor	341,933	May 18	1324	354	35	771
Morawetz, Wenzel J., Milwaukee, Wis. Ice-cooling apparatus	341,039	May 4	87	24, 25	35	521
More, Elisha D., New York, N. Y. Steam-boiler	353,752	Dec. 7	137	38	37	1032
Moreau, Eugène, San Francisco, Cal., assignor to T. W. Sterling, New York, N. Y. Rock-drill	335,469	Feb. 2	527	138	34	536
Moreau, Eugène, San Francisco, Cal., assignor to T. W. Sterling, New York, N. Y. Rock-drill	335,470	Feb. 2	528	138	34	536
Moreau, Eugène, San Francisco, Cal., assignor to T. W. Sterling, New York, N. Y. Rock-drill	347,438	Aug. 17	1345	357, 358, 359, 360	36	728
Moreau, Jean F. (See De Redon, Constant F., assignor.)						
Moree, Albert F., Milford, Conn. Machine for manufacturing boxes	336,340	Feb. 16	1811	475	34	775
Morein, Jules, Norfolk, Va. Fence, railing, or balcony	346,057	July 20	1797	463, 464	36	335
Morehouse Bottle Stopper Company. (See Morehouse, Charles L., assignor.)						
Morehouse, Charles L., Brooklyn, N. Y., assignor to M. E. Morgan and G. L. Garrigues. Journal-box	336,341	Feb. 16	1813	475	34	775
Morehouse, Charles L., Brooklyn, assignor, by mesne assignments, to Morehouse Bottle Stopper Company, New York, N. Y. Bottle-stopper	343,646	June 15	1278	321	35	1252
Morehouse, Charles L., Brooklyn, assignor, by mesne assignments, to Morehouse Bottle Stopper Company, New York, N. Y. Bottle-stopper	343,647	June 15	1279	322	35	1252
Morehouse, Herbert G., Croton Landing, N. Y. Underground tube for electric wires	352,771	Nov. 16	1444	389	37	744
Morehouse, Miles A., Johnsburg, N. Y. Table-knife	342,122	May 18	1586	423	35	819
Morehouse, Tine, *et al.* (See Neal, George W. B., assignor.)						
Moreland, Silas W., Geneva, Ohio. Injector	333,534	Jan. 5	52	15	34	12
Morell, James F., Camden, N. J. Journal-bearing	351,279	Oct. 19	1670	438	37	318
Morell, James F., Philadelphia, Pa., assignor to Automatic Car Brake, Starter, and Propeller Company. Car brake and starter	337,278	Mar. 2	535	140	34	1025
Morell, James F., Philadelphia, Pa., and D. Goff, Millville, N. J., assignors to National Car Starter Manufacturing Company of New Jersey. Car motor and brake	338,642	Mar. 23	2383	628	34	1376
Morell, James F., Camden, N. J., and C. Tilton, Philadelphia, Pa., assignors to Automatic Car Brake Starter and Propeller Company, Camden, N. J. Car brake and starter	350,890	Oct. 12	1116	297	37	210
Morell, William F., Cutchogue, N. Y. Lifting-jack	350,071	Sept. 28	2109	545, 546	36	1465
Morère, Eliacim, New Orleans, La. Faucet	338,860	Mar. 30	2706	712	34	1440
Moreton, Charles B., Moscow, Ohio. Toy	334,885	Jan. 26	1940	518	34	381
Morey, Alonzo G., Hillsdale, Mich. Brush and broom head	341,040	May 4	89	25	35	522
Morey, De Witt C., Jr., assignor of one-half to G. M. Tourtellotte, Worcester, Mass. Can	338,432	Mar. 23	2109	552	34	1328
Morey, Parker F., Portland, Oreg. Pressure-regulating valve	346,212	July 27	2012	519	36	385
Morey, Parker F., Portland, Oreg. Valve for hydraulic elevators	354,020	Dec. 7	539	146	37	1104
Morey, Parker F., Portland, Oreg. Water or other engine	355,097	Dec. 28	2100	551, 552	37	1418
Morford, R. D. (See Buck, Julius W., assignor.)						
Morgan, Alfred W., Washington, D. C. Bit-stock	355,276	Dec. 28	2356	619	37	1469
Morgan, Amos W., Buffalo, N. Y. Water street stop-cock box	350,891	Oct. 12	1117	297	37	211
Morgan, Andrew J. (See McIlwain, James, assignor.)						
Morgan, Benjamin B., Ann Arbor, Mich. Car-coupling	342,705	May 25	2431	646	35	980
Morgan, Charles. (See Morgan, Edgar H. and C.)						
Morgan, Charles, Bridgewater, Nova Scotia, Canada. Carriage-seat	350,072	Sept. 28	2110	546	36	1465
Morgan, Charles and E. H., assignors of one-third to A. Baumgarten, Freeport, Ill. Securing covers on boxes	353,801	Dec. 7	209	56	37	1045
Morgan, Charles F. Taylor, Minn. Bundle-carrier for self-binding harvesters	349,895	Sept. 28	1867	482	36	1420
Morgan, Charles H. Worcester, Mass. Reeling mechanism	334,453	Jan. 19	1359	368	34	267
Morgan, Charles H., Worcester, Mass. Wire-rod-rolling mill	334,454	Jan. 19	1362	369	34	267
Morgan, Charles H., assignor to R. K. Nove, Buffalo, N. Y. Roller-mill	341,342	May 4	518	143	35	599
Morgan & Company, D. S. (See Becker, Frederick G., assignor.)						
Morgan, David G., Rutland, Vt. Railway time-signal	341,343	May 4	520	143	35	599
Morgan, Edgar H. (See Morgan, Charles and E. H.)						
Morgan, Edgar H. and C., Freeport, Ill. Bottle-stopper	350,598	Oct. 12	702	191	37	135
Morgan Envelope Company. (See Johnson, Charles C., assignor.)						
Morgan, Hubert W., Westfield, Mass. Coffin-handle	352,096	Nov. 2	532	142	37	558
Morgan, Hubert W., Meriden, assignor to A. H. Mathewson, Enfield, Conn. Handle for coffins	354,802	Dec. 21	1681	444	37	1327
Morgan, Hubert W., and C. G. Becker, Westfield, Mass., assignors to said Becker, and F. D. Loomis, New Haven, Conn. Whip-button	343,721	June 15	1403	349	35	1274
Morgan, John F., Lynn, Mass. Bicycle-leg	335,297	Feb. 2	297	79	34	494
Morgan, John H., Jr., Naausay, Ill. Gable or loft door for barns	342,374	May 25	1959	518	35	894
Morgan, Joseph, West Springfield, Mass. Cultivator	333,535	Jan 5	53	15	34	13
Morgan, Joseph E., Columbus, N. C., and T. C. Morgan, Kinderhook, Ark. Seed-planter and fertilizer-distributer	335,830	Feb. 9	1046	276, 277	34	635
Morgan, Mary E., *et al.* (See Morehouse, Charles L., assignor.)						
Morgan, Nicholas C. (See Roden and Morgan.)						
Morgan Nut Lock Washer Company. (See Hare, John, assignor.)						
Morgan, Reuben D., and C. B. Mann, Cleveland, Ohio. Signal-lantern	341,762	May 11	1094	290	35	719

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Morgan, Robert, deceased, Cincinnati, Ohio: O. S. Kline, administrator, assignor, by mesne assignments to said O. S. Kline, Louisville, Ky. Addressing-machine	342,375	May 25	1960	518	35	894
Morgan, Rufus M., *et al.* (See Simmons, John E., assignor.)						
Morgan, Schuyler W., East Concord, N. H. Velocipede	337,975	Mar. 16	1477	383	34	1204
Morgan, Schuyler W., East Concord, N. H. Heater	353,422	Nov. 30	2376	633	37	935
Morgan, Tench C. (See Morgan, Joseph E. and T. C.)						
Morgan, Thomas, and J. Baker, Chicago, Ill. Frogless automatic railway-switch	343,052	June 1	392	100	35	1077
Morgans, Thomas R. (See McKitterick, Morgans, and McKitterick.)						
Morgan, William A., Jr., Cambria, Iowa. Mowing-machine	339,068	Mar. 30	3010	795, 796	34	1492
Morganstern, Albert G., *et al.* (See Holt, Albert T., assignor.)						
Morgenroth, Pauline, and T. Levison, Brooklyn, N. Y. Flour-sifter	333,966	Jan. 5	639	176	34	120
Morgenthaler, George A., Dayton, Ohio. Harmonica-holder	343,833	June 15	1532	387	35	1299
Moriarty, Michael J., Muskegon, Mich. Car-brake	338,283	Mar. 23	1892	497	34	1290
Morison, Lewis F., and F. X. Bertrand, St. Hyacinthe, Quebec, Canada. Car-axle lubricator	340,724	Apr. 27	2329	613	35	435
Moritz, Carl, Dubuque, Iowa. Feather-renovator	341,386	May 4	585	161	35	611
Morlan, James H., Lebo, Kans. Clothes drier	339,315	Apr. 6	286	72	35	55
Morlet, Charles, Jersey City, N. J. Winding-stop for mainsprings	339,678	Apr. 13	859	211	35	158
Morlet, Charles, assignor to himself and P. Nordmann, New York, N. Y. Watch-winding mechanism	349,896	Sept. 28	1868	483	36	1420
	335,471	Feb. 2	529	138, 139	34	536
Morley, Albert. (See Bostwick and Morley.)						
Morley, Albert. (See Lyman and Morley.)						
Morley Button Sewing Machine Company. (See Thompson, Rosewell, assignor.)						
Morley, Charles F., Tecumseh, Mich. Animal-catching device	338,606	Mar. 23	2331	610	34	1367
Morley, Edward A., Lee, Mass. Universal electric damper and fire-alarm	350,548	Oct. 12	629	173	37	121
Morley Sewing Machine Company. (See Bennett, Walter E., assignor.)						
Morley Sewing Machine Company. (See Cummings, Bennett, and Thompson, assignors.)						
Morley, William. (See Wood and Morley.)						
Morlock, George P., Plymouth, Ind. Sack-scale	340,594	Apr. 27	2144	554	35	405
Morningstar, Sylvanus, Buffalo, N. Y. Soldering-case	350,314	Oct. 5	284	81	37	57
Morphy, James. (See White and Morphy.)						
Morrell, Augustine, assignor to himself, R. L. Little, and F. D. Figueiredo, St. Louis, Mo. Tag	338,685	Mar. 23	2452	647	34	1388
Morrell, Charles H., New York, N. Y. Scarf-pin and other pinned jewelry	355,196	Dec. 28	2238	590	37	1446
Morrell, Richard, Passaic, N. J. Apparatus for drawing ale, &c.	340,672	Apr. 27	2252	593	35	422
Morrell, Robert, Summit, N. J. Fire-engine	337,424	Mar. 9	745	191	34	1068
Morrell, Robert, Summit, N. J. Grinding-mill	344,490	June 29	2443	628	35	1479
Morrell, Robert, Summit, N. J. Railway-tie	354,433	Dec. 14	1131	303	37	1220
Morrill, Benjamin. (See Crabtree, Thomas A., assignor.)						
Morrill, Charles, Jersey City, N. J. Device for setting saws	354,167	Dec. 14	763	205	37	1153
Morrill, Charles F., Boston, Mass. Watch-case	347,258	Aug. 10	1070	287	36	670
Morrill, Charles F., Boston, Mass. Pendant-stem for watches	351,302	Oct. 26	1845	484	37	355
Morrin, Thomas F., Jersey City, N. J. Valve	347,727	Aug. 17	1769	472	36	807
Morris, Benjamin, Newark, N. J. Coffin	338,607	Mar. 23	2332	610	34	1367
Morris, Bernard G., *et al.* (See Hambuier, Ephraim, assignor.)						
Morris, Calvin B. (See Johnson, John T., assignor.)						
Morris, Calvin B., *et al.* (See Kneedler, Lewes, assignor.)						
Morris, Charles A., Bloomfield, N. J. Dredging-bucket	341,763	May 11	1095	290	35	720
Morris, Charles N., Cincinnati, Ohio. Machine for surfacing lithographic stones	336,582	Feb. 23	2135	560	34	840
Morris, Charles N., Cincinnati, Ohio. Machine for surfacing lithographic stones	336,583	Feb. 23	2138	560	34	840
Morris & Co., R. J. (See Van Dolsen, Augustus F., assignor.)						
Morris Company, I. P. (See Hutchinson, Clinton C., assignor.)						
Morris, Cornelius S., Lansingburg, N. Y. Conductor's register	353,078	Nov. 23	1879	507	37	833
Morris, David and T., assignors to Morris Manufacturing Company, San Francisco, Cal. Fancet	338,353	Mar. 23	1991	524	34	1308
Morris, David and T., and C. A. Kern, San Francisco, Cal.; said Kern assignor to said David and T. Morris. Hopping and preserving beer with carbonic-acid gas	343,595	June 15	1211	304	35	1240
Morris, David and T., and C. A. Kern, San Francisco, Cal.; said Kern assignor to said David and T. Morris. Apparatus for supplying carbonic-acid gas to beer in kegs	343,596	June 15	1212	304	35	1241
Morris, E. Walter, Bloomfield, N. J. Sash-holder	337,695	Mar. 9	1098	283	34	1129
Morris, Edward C., assignor to Morris & Ireland, Boston, Mass. Compound plastic and wire-netting lining or finishing for partitions	344,670	June 29	2683	696	35	1526
Morris, Edward C., assignor to Morris & Ireland, Boston, Mass. Combined plastic and netting lining or finish for partitions, &c.	344,671	June 29	2685	697	35	1526
Morris, Francis S., London, England. Multitubular steam-boiler	338,861	Mar. 30	2706	712	34	1440
Morris, George M., Cohoes, assignor to National Machine Company, Troy, N. Y. Bobbin-case for sewing-machines	339,069	Mar. 30	3011	796	34	1492
Morris, George W., Brantford, Ontario, Canada. Thrashing-machine	354,803	Dec. 21	1682	444	37	1328
Morris, George W., Pittsburg, Pa. Car-spring	355,197	Dec. 28	2239	591	37	1446
Morris, Henry B., assignor to Autophone Company, Ithaca, N. Y. Machine for making and inserting staples in music-rollers	339,679	Apr. 13	860	211, 212	35	158
Morris & Ireland. (See Morris, Edward C., assignor.)						
Morris, James H., assignor of one-half to J. H. Simonson, Albany, N. Y. Tobacco-pipe support	335,612	Feb. 9	738	196	34	580
Morris, John H. and T. D., Seward, Nebr. Permutation-lock	344,977	July 6	255	64	36	46
Morris, John H. and T. D., Seward, Nebr. Combination-lock	349,168	Sept. 14	869	222	36	1211
Morris, John H. and T. D., Seward, Nebr. Permutation-lock	351,995	Nov. 2	390	106	37	531
Morris, Mark G., *et al.* (See Hambuier, Ephraim, assignor.)						
Morris Manufacturing Company. (See Morris, David and T., assignors.)						
Morris, O. B. (See Bates, Edwin C., assignor.)						
Morris, Richard, Blackheath, county of Kent, England. Auxiliary barrel for guns	351,333	Oct. 19	1742	458	37	331
Morris, Richard, Blackheath, county of Kent, England. Auxiliary gun-barrel	351,334	Oct. 19	1743	458, 459	37	331
Morris, Richard, Blackheath, county of Kent, England. Machine-gun	353,231	Nov. 23	2097	561, 562	37	877
Morris, Theodore. (See Morris, David and T.)						
Morris, Theodore. (See Morris and Kern.)						
Morris, Thomas D. (See Morris, John H. and T. D.)						
Morris, William R., Cincinnati, Ohio, assignor of one-half to P. C. Brown, Newport, Ky. Roller-skate	336,816	Feb. 23	2462	646	34	900
Morrison, Andrew J., Hume, N. Y. Aerial railway and car	342,757	May 25	2507	668	35	995
Morrison, Annie M., New York, N. Y. Supporting-band for aprons	353,575	Nov. 30	2598	693	37	977

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Morrison, Charles. (See Darr, Emory Q., assignor.)						
Morrison, D. (See Bettis, William I., assignor.)						
Morrison, Hamon, assignor of one-half to J. R. Anderson, Xenia, Kans. Check-row corn-planter	349,259	Sept. 14	989	252	36	1234
Morrison, J. Frank. (See Keilholtz, Pierre O., assignor.)						
Morrison, J. Henry, assignor to Allen Spool and Printing Company, Norwich, Conn. Automatic sawing-off machine	351,518	Oct. 26	2051	532 / 533	37	394
Morrison, James C., West Ham, county of Essex, and R. Smith, Bromley, county of Middlesex, England. Oil-burner	338,862	Mar. 30	2708	713	34	1440
Morrison, James D., Reinbeck, Iowa. Platform for handling stock	337,425	Mar. 9	747	194	34	1069
Morrison, James N., Fort Scott, Kans. Chain-pump	336,817	Feb. 23	2463	646	34	900
Morrison, John. (See Waite, Charles N., assignor.)						
Morrison, John, St. Louis, Mo. Combined plumb, level, and rule	342,303	May 18	1838	486	35	864
Morrison, Lewis E., New York, N. Y. Folding bedstead	342,756	May 25	2506	667	35	995
Morrison, Nelson, Hoosick Falls, N. Y. Automatic grain-weigher	341,159	May 4	958	75	35	552
Morrison, Robert B., Oakdale, Ga. Brick-kiln	337,696	Mar. 9	1098	283	34	1129
Morrison, Samuel L. (Myers and Morrison.)						
Morrison, Thornton F. (See Dixon, Samuel W., assignor.)						
Morrison, Willard A., Chicago, Ill. Wardrobe-bedstead	336,818	Feb. 23	2464	647	34	901
Morrison, William H., Indianapolis, Ind. Steam-engine	344,003	June 22	1758	453	35	1349
Morrison, William J., and J. C. Wharton, Nashville, Tenn. Purifying water	354,650	Dec. 21	1468	.....	37	1287
Morrow, Daniel S., Springfield, Ohio. End-gate	343,384	June 8	915	229	35	1180
Morrow, George, Pullman, Ill. Support for drawers	347,276	Aug. 10	1103	295	36	876
Morrow, George L. K., assignor to D. M. Ferry, Detroit, Mich. Carriage-pole tip	338,608	Mar. 23	2334	611	34	1368
Morrow, George L. K., assignor to D. M. Ferry, Detroit, Mich. Mowing-machine	339,997	Apr. 13	1291	323	35	237
Morrow, Henry W., Wilmington, Del. Nut-lock	346,823	Aug. 3	454	125	36	548
Morrow, James. (See Morrow, Richard H., assignor.)						
Morrow, John, Philadelphia, Pa. Car-brake	351,519	Oct. 26	2053	533	37	395
Morrow, Richard H., Washington Court-House, assignor of one-half to J. Morrow, Steubenville, Ohio. Corn-harvester	347,301	Aug. 10	1146	306 / 307	36	684
Morrow, Thomas T., Caro, Mich. Snap-hook	349,169	Sept. 14	870	223	36	1211
Morrow, Thomas T., Caro, Mich. Snap-hook	349,170	Sept. 14	870	223	36	1211
Morrow, William J., Gainesville, assignor of one-half to I. Mowery, Jacksonville, Fla. Article of artificial stone, &c	352,772	Nov. 16	1446	390	37	744
Morrow, William W., *et al.* (See Kelly, John J., assignor.)						
Morse, Charles F., Randolph, assignor of one-half to J. D. Denison, West Randolph, Vt. Expansion-pulley	352,062	Nov. 2	481	130	37	549
Morse, David R., *et al.* (See Beach, William W., assignor.)						
Morse, David R., *et al.* (See Solano, Renaldo, assignor.)						
Morse, Edward A. (See Shortsleeve, David, assignor.)						
Morse, Edward S., Salem, Mass. Pamphlet-jacket	343,475	June 8	1048	261	35	1204
Morse, Frederick H., St. Louis, assignor of one-half to G. S. Morse, Columbia, Mo. Handle for bicycles	347,054	Aug. 10	793	211	36	619
Morse, George, Gloucester, assignor to himself and C. A. Boynton, Boston, Mass. Thill-coupling	335,767	Feb. 9	963	255	34	619
Morse, George S. (See Morse, Frederick H., assignor.)						
Morse, George W., Washington, D. C. Reloading-cartridge	345,165	July 6	505	130	36	92
Morse, George W., Washington, D. C. Cartridge-resizing implement	346,213	July 27	2013	519 / 520	36	386
Morse, Henry T., Boston, Mass. Jack for boots or shoes	343,964	June 15	1706	437	35	1332
Morse, Henry T., assignor to E. D. Lee, Boston, Mass. Jack for boots and shoes	336,489	Feb. 16	2010	527	34	811
Morse, Ira, Danbury, Conn. Pipe-wrench	344,978	July 6	256	64	36	46
Morse, James F. M., Evansville, Ind. Nut-lock	334,031	Jan. 12	738	202	34	146
Morse, Joseph B., Brandon, Vt. Star time-chart	340,452	Apr. 20	1931	496	35	359
Morse, Leonard W., Mystic River, Conn. Mechanical movement	343,672	June 15	1314	329	35	1258
Morse, Orville M., assignor to Knickerbocker Company, Jackson, Mich. Flour-bolt	353,698	Dec. 7	61	16	37	1017
Morse, Preston C., Natick, Mass. Automatic regulator for incubators, &c	343,053	June 1	395	100 / 101	35	1078
Morse, Stephen A., and C. Tyson, Philadelphia, Pa. Spur-geared hoisting-machine	344,053	June 22	1835	471	35	1361
Morse Twist Drill and Machine Company. (See Morton, James A., assignor.)						
Morse Twist Drill and Machine Company. (See Stetson, George R., assignor.)						
Morse, William. (See Goodyer and Morse.)						
Morse, William J., assignor of two-thirds to H. Mullen and J. Noble, Jr., Westfield, Mass. Whip-button	345,166	July 6	507	130	36	92
Mortenson, Hans, Brooklyn, assignor of one-half to C. Winters, New York, N. Y. Rotary cutting and forming machine	354,168	Dec. 14	765	206	37	1153
Mortimer, Charles J., New York, N. Y. Stop-cock	353,802	Dec. 7	210	56	37	1045
Morton, Ephraim S., Plymouth, assignor of one-half to S. Loring, Duxbury, Mass. Wire-nail machine	334,604	Jan. 19	1570	419	34	305
Morton, Frederic C., Chelsea, Mass. Steam-engine	349,171	Sept. 14	871	223	36	1211
Morton, James A., assignor to Morse Twist Drill and Machine Company, New Bedford, Mass. Machine for clearing twist-drills	337,279	Mar. 2	537	141	34	1025
Morton, James F., Newton Centre, Mass. Leaf-holder and support for books	339,202	Apr. 6	124	34	35	25
Morton, James F., Newton Centre, Mass. Book-support and leaf and copy holder	352,654	Nov. 16	1294	349	37	714
Morton, James G., Canton, Mo. Hay-press	346,937	Aug. 10	629	169	36	589
Morton, Robert, Wishaw, county of Lanark, Scotland, assignor to J. Baker & Sons, London, England. Apparatus for whipping and churning liquids	343,834	June 15	1533	387 / 388	35	1299
Morton, Robert, Wishaw, county of Lanark, Scotland, assignor to J. Baker & Sons, London, England. Churning or mixing machine	343,835	June 15	1534	388	35	1299
Morton, Thomas. (See Kernaghan, John, assignor.)						
Morton, Thomas, New York, N. Y. Sash-cord fastener	341,496	May 11	727	195	35	647
Morton, Walter S., St. Paul, Minn. Automatic draw-bridge gate	334,084	Jan. 12	817	224	34	160
Morton, William J., New York, N. Y. Telephone	354,169	Dec. 14	766	206	37	1153
Mory, D. B., Sr. (See Candel, William, assignor.)						
Moschcowitz, Herman. (See Moschcowitz, Schamu M. and H.)						
Moschcowitz, Herman, New York, N. Y. Stay for garments	343,476	June 8	1049	361	35	1204
Moschcowitz, Herman, New York, N. Y. Pattern for garments	350,073	Sept. 28	2111	546	36	1465
Moschcowitz, Herman and S. M., New York, N. Y. Stay for garments	343,477	June 8	1050	261	35	1204
Moschcowitz, Schamu M. (See Moschcowitz, Herman and S. M.)						
Moschcowitz, Schamu M. and H., New York, N. Y. Dress-skirt facing	348,859	Sept. 7	428	115	36	1126
Moscopoulos, Basilios K., New York, N. Y. Sponge gathering net. (Reissue)	10,688	Feb. 16	2074	545	34	823
Moseley, Charles, Manchester, county of Lancaster, England. Water-proof fabric	352,954	Nov. 23	1696	456	37	799
Moseley, Fredrick W., Poultney, Vt., and J. G. Pritchard, Clinton, Iowa. Cream-raising apparatus	348,540	Aug. 31	2939	790	36	1041

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Moseley, Joseph, Marcy, N. Y. Sulky-plow	348,231	Aug. 31	2511	675	36	958
Moseley, Orlando, Peru, Ind. Wire fence	348,035	Aug. 24	2212	591	36	897
Mosely, George W., Philmont, N. Y. Tally or check tag	345,443	July 13	899	224	36	167
Moseman, Willett W., assignor to W. A. Stevenson, Brooklyn, N. Y. Evener or sheet-straightener for the receiving-tables of printing-machines	345,644	July 13	1215	314	36	225
Moses, Albert P., Malone, N. Y. Reel	340,595	Apr. 27	2145	555	35	405
Moses, Albert P., and H. H. Hawley, Malone, N. Y. Floor-clamp	340,145	Apr. 20	1494	378	35	279
Moses, Albert P., and L. Frechette, Malone, N. Y. Thill-coupling	349,401	Sept. 21	1186	307	36	1281
Moses, Joseph, Lapeer, Mich. Bob-sled runner	343,054	June 1	398	101	35	1078
Moses, Otto A., New York, N. Y. Manufacture of incandescent electric lamps	335,831	Feb. 9	1048	277	34	635
Moses, Otto A., New York, N. Y. Arc lamp	343,188	June 8	604	150	35	1125
Moses, Otto A., New York, N. Y. Crayon-holder	347,439	Aug. 17	1354	360	36	730
Moses, Otto A., New York, N. Y. Storage-battery	352,708	Nov. 16	1374	371	37	730
Mosher, Frank D. (See Casterlin and Mosher.)						
Mosher, William A. (See Johnson and Mosher.)						
Mosiman, Joel, Falls City, Nebr. Traction-engine	333,658	Jan. 5	210	57	34	41
Moss, John, Brooklyn, N. Y. House-service and street-washer connection	336,253	Feb. 16	1690	445	34	752
Moss, John, assignor to F. M. Fogg, Brooklyn, N. Y. Cock for house-service and street-washer connections	353,423	Nov. 30	2376	634	37	935
Moss, Lincoln, *et al.* (See Pendleton, John H., assignor.)						
Moss, Lincoln, *et al.* (See Pendleton and Tiers, assignors.)						
Moss, Ralph S., London, England. Bat for lawn-tennis	346,858	Aug. 3	507	139	36	559
Moss, Robert T., Cambridge, Ohio, assignor of one-half to W. L. Haller, Buffalo, N. Y. Horse-tail holder	336,254	Feb. 16	1692	441	34	753
Moston, Willard, Wevertown, N. Y. Pipe-wrench	340,516	Apr. 20	2031	521	35	378
Motes, Martin H. (See Smith and Motes.)						
Motherwell, David and R. B., Logan, Ohio. Cultivator	336,939	Mar. 2	74	20	34	940
Motherwell Iron and Steel Company. (See Hughes, James L., assignor.)						
Motherwell, Robert B. (See Motherwell, David and R. B.)						
Motley, Francis F., assignor to Reynolds & Co., New Haven, Conn. Screw-machine	337,976	Mar. 16	1479	384	34	1204
Mott, Elias H., Sangerfield, N. Y. Railway-signal	337,855	Mar. 16	1307	339	34	1173
Mott Iron Works, J. L. (See Butler, Theodore, assignor.)						
Mott Iron Works, J. L. (See Demarest, John, assignor.)						
Mott Iron Works, J. L. (See Hammann, Edward, assignor.)						
Mott Iron Works, J. L. (See Mott, Jordan L., Jr., assignor.)						
Mott Iron Works, J. L. (See Taylor, George, assignor.)						
Mott, Jordan L., Jr., assignor to J. L. Mott Iron Works, New York, N. Y. Flushing apparatus for water-closet cisterns	345,390	July 13	815	206	36	152
Mott, Joseph, Crystal, Dak. Ter. Land-roller	344,591	June 29	2583	668	35	1566
Mott, Milo H., Jamestown, Dak. Ter. Pole-tip	352,978	Nov. 23	1732	464	37	806
Mott, Samuel D., New York, N. Y., assignor to Schuyler Electric Light Company of New York. Electric meter	336,132	Feb. 16	1481	391	34	720
Mott, Samuel D., New York, N. Y., assignor to Schuyler Electric Light Company of New York. Electric meter	336,133	Feb. 16	1482	392	34	720
Mott, Samuel D., assignor of one-fourth to E. Kelly, Jr., New York, N. Y. Liquid-elevating apparatus	352,833	Nov. 16	1526	411, 412	37	758
Motte, Ellis L., *et al.*, trustees. (See Buck, Henry A., assignor.)						
Motter, George F. (See Frey, Motter, and Reichley.)						
Mottinger, Noah W., and A. Halter, Akron, Ohio. Earthenware-lined refrigerator	348,036	Aug. 24	2213	591	36	897
Mouat, Thomas G. G., Detroit, Mich. Screw-driver	346,058	July 20	1798	464	36	335
Mouck, Andrew B., Fargo, Dak. Ter. Butt-adjuster for grain-harvesters	352,930	Nov. 23	1662	447	37	794
Moulter, Charles, *et al.* (See Le Clair, George, assignor.)						
Moulton, Charles H., Washington, D. C. File-cabinet for papers, &c	338,643	Mar. 23	2384	628	34	1376
Moulton, David, Malden, Mass. Elevated railway	345,645	July 13	1217	314	36	225
Moulton, Fordyce M., Vergennes, Vt. Road-scraper	347,820	Aug. 24	1911	508	36	842
Moulton, Fordyce M., and F. W. Coe, Vergennes, Vt. Combined whip and rein-holder	343,055	June 1	398	101	35	1078
Moulton, Hamilton L., Philadelphia, Pa. Carding-machine	347,728	Aug. 17	1771	472	36	807
Moulton, James N., Haverhill, Mass. Tack-pulling and sole-trimming machine for boots or shoes	350,940	Oct. 19	1178	313	37	228
Moulton, William F., Burlington, Vt. Lemon-drill	344,672	June 29	2686	697	35	1526
Mounce, George I., Philadelphia, Pa. Shoe-stretcher	343,914	June 15	1637	418	35	1320
Mount Washington Glass Company. (See Shirley and Steffin, assignors.)						
Mountford, Charles J., Birmingham, county of Warwick, England. Mixed paint	339,070	Mar. 30	3013	.....	34	1492
Mounts, Daniel D., San Francisco, Cal. Steam-cooking apparatus	345,391	July 13	815	206	36	153
Mouser, John B. (See Fogleson and Mouser.)						
Mousley, Charles, Philadelphia, Pa. Cable car	341,764	May 11	1097	291	35	720
Mowat, Arthur, Toronto, Ontario, Canada. Student's book-rest	340,596	Apr. 27	2146	555	35	405
Mowbray, George M., North Adams, Mass., assignor to American Zylonite Company, New York, N. Y. Process of and apparatus for washing, decoloring, and draining pyroxyline	349,658	Sept. 21	1521	393	36	1348
Mowbray, George M., North Adams, Mass., assignor to American Zylonite Company, New York, N. Y. Drying pyroxyline	349,659	Sept. 21	1523	.....	36	1348
Mowbray, George M., North Adams, Mass., assignor to American Zylonite Company, New York, N. Y. Manufacture of pyroxyline	350,497	Oct. 12	559	.....	37	110
Mowbray, George M., North Adams, Mass., assignor to American Zylonite Company, New York, N. Y. Manufacture of pyroxyline	350,498	Oct. 12	562	156	37	110
Mower, Jacob K. (See Normand, Joseph M., assignor.)						
Mower Knife Grinder Company. (See Dutton, Rufus, assignor.)						
Mower, Samuel E., New Haven, assignor to H. G. Thompson, Milford, H. G. Thompson, New Haven, Conn., and A. G. Thompson, New York, N. Y. Tempering metal	337,979	Mar. 16	1487	385	34	1206
Mower, Samuel E., New Haven, assignor to H. G. Thompson, Milford, H. G. Thompson, New Haven, Conn., and A. G. Thompson, New York, N. Y. Process of tempering	337,980	Mar. 16	1488	386	34	1206
Mower, Samuel E., New Haven, assignor to H. G. Thompson, Milford, H. G. Thompson, New Haven, Conn., and A. G. Thompson, New York, N. Y. Apparatus for tempering	337,981	Mar. 16	1489	386, 387	34	1206
Mower, Samuel E., New Haven, assignor to H. G. Thompson, Milford, and H. G. Thompson, New Haven, Conn. Machine for manufacturing pin-tags	352,254	Nov. 9	773	206, 207, 208	37	607
Mower, Samuel E., and T. Fowler, New Haven, assignors to H. G. Thompson, Milford, H. G. Thompson, New Haven, Conn., and A. G. Thompson, New York, N. Y. Saw-making machine	337,977	Mar. 16	1484	385	34	1205
Mower, Samuel E., and T. Fowler, New Haven, assignors to H. G. Thompson, Milford, H. G. Thompson, New Haven, Conn., and A. G. Thompson, New York, N. Y. Tempering metal bands or strips	337,978	Mar. 16	1486	385	34	1206
Mowery, Ira. (See Morrow, William J., assignor.)						
Mowrer, Martin L., Newark, N. J. Grain-drier	338,673	Mar. 23	2430	641	34	1384

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Mowry, George, Derry Station, Pa. Washing-machine	349,314	Sept. 21	1048	268	36	1254
Mowry, Jacob C., Rising Sun, Ohio. Car-coupling	343,522	June 15	1405	350	35	1274
Moxey, George T., *et al.* (See Durand, Jean B., assignor.)						
Moxey, George T., *et al.* (See Retornat, Ernest, assignor.)						
Moxham, Arthur J., Johnstown, Pa. Splice-bar rail-chair for street-railway tracks	334,265	Jan. 12	1110	297	34	214
Moxham, Arthur J., Johnstown, Pa. Making wire cables	337,513	Mar. 9	876	222	34	1090
Moxham, Arthur J., Johnstown, Pa. Railway-frog	338,181	Mar. 16	1759	459	34	1259
Moxham, Arthur J., Johnstown, Pa. Rolls for rolling girder-rails	340,891	Apr. 27	2549	671	35	475
Moxham, Arthur J., Johnstown, Pa. Rolls for rolling girder-rails	344,396	June 29	2319	598	35	1457
Moxham, Arthur J., Johnstown, Pa. Railway-frog	350,549	Oct. 12	630	173	37	122
Moyer, Harvey A., Syracuse, N. Y. Spring-vehicle	334,032	Jan. 12	739	202	34	146
Moyer, Jonah W., Philadelphia, Pa. Switch for overhead railways	352,834	Nov. 16	1530	412	37	759
Moyers, William H., Bainbridge, Ind. Log-wagon	347,739	Aug. 17	1772	473	36	808
Mudd, George W., Columbus, Ohio. Stove-pipe damper	334,715	Jan. 19	1728	460	34	333
Muddiman, Charles A., Washington, D. C. Hose-coupling	339,109	Mar. 30	3073	813	34	1503
Mudge, Charles F., Eskridge, Kans. Canning apparatus	346,122	July 27	1877	485	36	360
Mudge, Henry S. (See Bryson and Mudge.)						
Mueller, Berthold, Cincinnati, Ohio. Compound for purifying beer	338,284	Mar. 23	1893	.....	34	1290
Mueller, Charles L., Humboldt, Minn. Car-coupling	337,780	Mar. 9	1201	312	34	1147
Mueller, Erich E., St. Louis, Mo. Coffee-roaster	342,834	June 1	84	21	35	1022
Mueller, George A. (See Holz and Mueller.)						
Mueller, Jacob G., Buffalo, N. Y. Pressure-regulator for beer apparatus	354,482	Dec. 14	1203	321	37	1233
Mueller, Joseph H., and J. Marx, Cross Plains, Wis. Spoke-fitting machine	348,922	Sept. 7	523	138	36	1143
Mueller, Otto, *et al.* (See Stützel and Weimedel, assignors.)						
Mueller, William H., *et al.* (See Underwood, John R., assignor.)						
Muenchinger, Gustave A., Newport, R. I. Heat-regulator for incubators	346,938	Aug. 10	631	169	36	590
Mühl, Ernst, Philadelphia, Pa. Boat-lowering apparatus	354,869	Dec. 21	1773	467	37	1345
Muhlenberg, Nichols H. (See Endlich and Muhlenberg.)						
Mühlethaler, Jakob. (See Aebi and Mühlethaler.)						
Muirhead, John C., Grubgulch, Cal. Drill-machine	341,813	May 11	1162	310	35	733
Muirhead, Robert B. (See Taylor, James L., assignor.)						
Muholon, Joseph S., Fostoria, Pa. Corn-planter	347,499	Aug. 17	1432	380	36	745
Muholland, Richard, Dunkirk, N. Y. Vehicle-spring	347,500	Aug. 17	1433	381	36	745
Muhollen, Hugh, Fostoria, Pa. Separable building-sections	344,747	June 29	2787	721	35	1543
Mulkey, Elijah F. (See Houston and Mulkey.)						
Mullen, Henry, *et al.* (See Morse, William J., assignor.)						
Mullen, Henry, Westfield, Mass. Whip	353,371	Nov. 30	2296	613	37	920
Mullen, Henry, and J. Noble, Jr., Westfield, Mass. Whip-core	344,979	July 6	258	64	36	46
Mullen, John A., Georgetown, Ky. Kitchen-cabinet	335,034	Jan. 26	2144	570	34	417
Mullen, Robert H., Cincinnati, Ohio. Driving-line	340,517	Apr. 20	2033	522	35	378
Müller, Andreas, Homestead, Pa. Saddle-pad	351,706	Oct. 26	2920	603	37	444
Müller, Andrew, Hawley, Pa., assignor to C. Lambert, New York, N. Y. Cleaning and tension-equalizing device for silk-doubling frames	348,408	Aug. 31	2747	738	36	1005
Müller, Armand, assignor of two-thirds to M. E. Waldstein and A. H. Maas, New York, N. Y. Tanning with sulpholeic acid	338,182	Mar. 16	1760	.....	34	1259
Müller, August E., Oberfeld, Prussia, Germany. Button-fastener	350,074	Sept. 28	2112	547	36	1465
Müller, August E., Passau, Germany. Chronometer-escapement	351,122	Oct. 19	1462	383	37	280
Müller, Augustus F., New York, N. Y. Lady's riding-habit	348,573	Sept. 7	52	15	36	1057
Müller, Axel M., and J. S. Rüter, Copenhagen, Denmark. Car-starter	335,472	Feb. 2	530	139	34	536
Müller, Carl L. (See Bull and Müller.)						
Müller, Carl L., Ludwigshafen-on-the-Rhine, Bavaria, assignor to Badische Anilin and Soda Fabrik, Mannheim, Germany. Manufacture of sulphonated purple dye-stuffs from basic rosaniline	353,264	Nov. 23	2145	.....	37	886
Müller, Carl L., Ludwigshafen-on-the-Rhine, Bavaria, assignor to Badische Anilin and Soda Fabrik, Mannheim, Germany. Manufacture of sulphonated purple dye-stuffs from basic rosaniline	353,265	Nov. 23	2147	.....	37	886
Müller, Carl L., Ludwigshafen-on-the-Rhine, Bavaria, assignor to Badische Anilin and Soda Fabrik, Mannheim, Germany. Manufacture of sulphonated purple dye-stuffs from basic rosaniline	353,266	Nov. 23	2148	.....	37	886
Müller, Charles S., Brooklyn, assignor to Iron Clad Manufacturing Company, New York, N. Y. Bottom for vessels	351,707	Oct. 26	2321	603	37	445
Müller, Friedrich W., Berlin, Germany. Presser-foot for sewing-machines	346,601	Aug. 3	192	51	36	497
Muller, George, New York, N. Y. Veneering with fabric	337,346	Mar. 2	621	.....	34	1041
Muller, George, Hoboken, N. J. Cable-grip	352,255	Nov. 9	777	208	37	608
Müller-Jacobs, A., assignor to C. Müller-Jacobs and A. Loos, New York, N. Y. Colored varnish	343,331	June 8	826	.....	35	1163
Müller-Jacobs, Catharina, *et al.* (See Müller-Jacobs, A., assignor.)						
Müller, John, Rochester, N. Y. Brake	347,501	Aug. 17	1435	381	36	745
Muller, Lambert A. J., New York, N. Y. Fastening for secret panels	351,881	Nov. 2	218	62	37	498
Müller, Ludwig, Dresden, Saxony, Germany, assignor to O. Loeffler, New York, N. Y. File	348,290	Aug. 31	2585	695	36	974
Müller, Teile H., New York, N. Y. Reamer	346,214	July 27	2014	520	36	386
Mulliken, A. H., *et al.* (See Anderson, James J., assignor.)						
Mullinax, Eli S. (See Meuefee and Mullinax.)						
Mullins, Fenton P. F., Philadelphia, Pa. Paper-weight	338,235	Mar. 16	1827	477	34	1271
Mullins, John W., London, Ky. Magazine fire-arm	349,282	Sept. 14	1013	259	36	1239
Mullins, Richard W. (See Thomson and Mullins.)						
Mulloy, William, Great Falls, N. H. Hoof-pad	347,821	Aug. 24	1912	508	36	842
Mumford, Joseph A., Hantsport, Nova Scotia, Canada. Steam-boiler	350,440	Oct. 5	463	130	37	89
Mumford, Theodore L., and H. Moore, Mauch Chunk, Pa. Combined steel tie, rail-fastening, &c	350,692	Oct. 12	841	226	37	159
Mumma, Henry C. (See Highbarger, John L., assignor.)						
Mummery, Walter S., Elba, Mich. Creamer	340,920	Apr. 27	2585	681	35	482
Muncaster, Walter J., assignor of one-half to M. McKaig, Cumberland, Md. Metal bending and straightening machine	334,455	Jan. 19	1364	369 / 370	34	267
Muncaster, Walter J., assignor of one-half to M. McKaig, Cumberland, Md. Lathe for turning shafting	334,538	Jan. 19	1481	397 / 398	34	287
Munday, Gilbert, and J. Coon, Montezuma, Ohio. Clod-crusher	342,758	May 25	2509	668	35	995
Mundy, Edwin V. (See Crawford and Mundy.)						
Munger, George, East River, Conn. School-desk	354,870	Dec. 21	1774	468	37	1346
Municipal Signal Company. (See Wilson, John C., assignor.)						
Munk, Henry, Fremont, Ohio. Cigar-lighter and perfumery-ejector combined	348,409	Aug. 31	2747	738	36	1005
Munn, Schuyler J., Adrian, Mich. Fence-post	342,922	June 1	211	54	35	1043

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Munn, W. C. (See Armstrong and Lowrey, assignors.)						
Munnell, Thomas, Mount Sterling, Ky. Cash-register	354,483	Dec. 14	1203	322 / 323	37	1233
Munro, Carrie A., Olive Branch, Ohio. Vapor-bath	348,923	Sept. 7	524	138	36	1143
Munroe, Frank B., Lynn, Mass. Hose-spanner	342,923	June 1	212	54	35	1043
Munroe, James S., Lexington, Mass. Carpet-lining	353,576	Nov. 30	2599	694	37	977
Munroe Organ Reed Company. (See Stone, Frank, assignor.)						
Munroe, Robert, Allegheny, Pa. Man-hole cover	339,998	Apr. 13	1293	323	35	237
Munshower, George W., Bowling Green, Ohio. Foot-rest for reclining-chairs	333,659	Jan. 5	211	57	34	41
Munsie, James F., assignor of five-twelfths to H. N. May, Chicago, Ill. Conduit for electric conductors	344,324	June 22	2212	569	35	1430
Munsie, James F., assignor of five-twelfths to H. N. May, Chicago, Ill. Testing-station for conduit systems	348,572	Sept. 7	51	14	36	1057
Munson, Alvin J., Indianapolis, Ind. Ball-ornament for lightning-rods	343,332	June 8	827	207	35	1163
Munson, Corydon W., Toledo, Ohio. Inhaler and respirator	345,718	July 20	1318	341	36	250
Munson, Frank, assignor to Buchanan Manufacturing Company, Buchanan, Mich. Folding bed	336,525	Feb. 16	2057	540	34	819
Munson, Harvey S., New Haven, Conn. Paper box	348,924	Sept. 7	526	138 / 139	36	1144
Munson, James E., New York, N. Y. Selecting device	352,143	Nov. 9	618	164	37	580
Munton, James, Chicago, Ill. Mold for casting blooms	352,559	Nov. 16	1158	313	37	690
Munz, Jakob F., and F. R. Wells, Springfield, Ohio. Gas and gasoline water-heater and grate	351,335	Oct. 19	1745	459	37	331
Munz, John, Jr. (See Hellmuth, Frederick C., assignor.)						
Murbarger, William E., Dayton, Ohio. Anti-rattler for thill-couplings	344,786	June 29	2841	735	35	1553
Murchey, William, Toronto, Ontario, Canada. Tap	343,056	June 1	399	102	35	1079
Murdock, Edwin F., Washington, D. C. File-box	346,216	July 27	2016	520	36	387
Murdock, Edwin H., Cincinnati, Ohio. Mold for casting stench-traps	334,033	Jan. 12	740	202	34	146
Murdock, George J., assignor to C. Hall, New York, N. Y. Bolt-machine	340,518	Apr. 20	2033	522 / 523	35	378
Murdock, George J., assignor to C. Hall, New York, N. Y. Bolt-machine. (Reissue)	10,762	Sept. 7	551	145 / 146	36	1148
Murdock, Horace B., assignor of one-half to J. Trix, Detroit, Mich. Injector	334,266	Jan. 12	1112	298	34	214
Murdock, William M., Gilwern, county of Brecon, England, assignor to H. W. Oliver, Jr., and J. P. Witherow, Pittsburg, Pa. Converter	335,613	Feb. 9	739	197	34	580
Murdock, William N., Woodsville, N. H. Reed-board for organs	341,041	May 4	90	25	35	522
Murphey, Frank P. (See Murphey, George W. and F. P.)						
Murphey, George W. and F. P., Decatur, Ill. Reel for check-row wire	352,880	Nov. 16	1592	430	37	772
Murphy, Alexander A., assignor of one-half to F. Boas, Montreal, Quebec, Canada. Spool-holder	338,764	Mar. 30	2579	680	34	1417
Murphy, Andrew, Columbus, Ohio. Safety attachment for hydraulic elevators	337,781	Mar. 9	1202	312	34	1147
Murphy, Andrew, and C. Weinman, Columbus, Ohio. Platform for scaffolds	347,055	Aug. 10	794	211	36	619
Murphy, Columbus C., Le Sueur, Minn. Grain-separator	341,814	May 11	1163	310 / 311	35	732
Murphy, D. Gaylord, Fishkill-on-the-Hudson, N. Y., and F. J. Murphy Danbury, Conn. Hat-pouncing machine	350,375	Oct. 5	363	104	37	73
Murphy, Daniel H., Hartford, Conn. Dust-pan holder	340,146	Apr. 20	1495	378	35	279
Murphy, Daniel H., Lynn, Mass. Lamp	343,137	June 1	526	133	35	1101
Murphy, Daniel H., Hartford, assignor of one-fourth to E. M. Steele, Newington, Conn. Kettle-cover	334,716	Jan. 19	1728	460	34	333
Murphy, Daniel J., and H. F. Low, Manchester, N. H.; said Low assignor to said Murphy. Stop and waste cock	339,316	Apr. 6	288	72	35	55
Murphy, Frank J. (See Murphy, D. Gaylord and F. J.)						
Murphy, James D. (See Damitz, Murphy, and Paxton.)						
Murphy, Jeremiah, Brooklyn, N. Y. Grate	344,491	June 29	2445	628	35	1479
Murphy, Jeremiah, Brooklyn, N. Y. Mill for pressing cane, &c	346,493	Aug. 3	57	14	36	471
Murphy, John, and N. W. Lord, Columbus, Ohio. Hydraulic cement	347,367	Aug. 17	1244	.....	36	710
Murphy, Junius A. and M. T., New Orleans, La. Oil-cake mat	346,059	July 20	1799	464	36	335
Murphy, Marcus T. (See Murphy, Junius A., assignor.)						
Murphy, Maurice. (See Devereaux and Murphy.)						
Murphy, Merrick, Milwaukee, Wis. Steam-valve gear	340,054	Apr. 13	1367	343	35	250
Murphy, Patrick J., Pawtucket, R. I. Covering for steam-pipes	350,941	Oct. 19	1180	.....	37	229
Murphy, Richard. (See Atkinson and Murphy.)						
Murphy, William, St. John, New Brunswick, Canada. Octave-coupler for organs	336,134	Feb. 16	1483	392	34	720
Murphy, William H., Fox Lake, Wis. Cartridge-loading case	343,836	June 15	1535	388	35	1299
Murray, Allen. (See Wheeler, Thomas W., assignor.)						
Murray, Charles H., assignor of one-half to O. F. Myers, Denver, Colo. Furnace for reducing and distilling zinc from its ores	333,967	Jan. 5	640	176	34	121
Murray, Charles H., assignor of one-half to O. F. Myers, Denver, Colo. Extracting zinc from its ores by means of gases	350,148	Oct. 5	74	.....	37	17
Murray, David, Milwaukee, Wis. Street-sprinkler	354,515	Dec. 14	1256	336	37	1242
Murray, David M., Dayton, Ohio. Stove	346,939	Aug. 10	632	170	36	590
Murray, David M., Dayton, Ohio. Latch	348,925	Sept. 7	527	139	36	1144
Murray, Donald J., Wausaw, Wis. Feed-table for sawing-machines	343,057	June 1	400	102	35	1079
Murray, James, and D. A. Brislin, St. Louis, Mo. Spring-key-shaping machine	345,717	July 20	1315	340 / 341	36	250
Murray, James D., Canandaigua, assignor of one-half to R. E. Boshert, Syracuse, N. Y. Vinegar-generator	338,183	Mar. 16	1762	460	34	1259
Murray, James H., assignor to D. A. Sargent, G. D. Bowman, and J. H. Martin, Hopkins, Mo. Galvanic belt	346,215	July 27	2015	520	36	386
Murray, John A., Scranton, Pa. Car-coupling	339,110	Mar. 30	3074	813	34	1503
Murray, Joseph L., Weimar, Tex. Cotton-chopper and cultivator combined	336,865	Feb. 23	2521	665	34	911
Murray, Joseph S. (See Reynolds and Murray.)						
Murray, Joseph T. (See Cardwell and Fitch, assignors.)						
Murray, Joseph T., *et al.* (See Cardwell, George A., assignor.)						
Murray Motor Manufacturing Company. (See Murray, Peter, Jr., assignor.)						
Murray, Peter, Jr., Newark, assignor to himself, R. S. T. and R. B. Cissel, Elizabeth, and A. N. Lewis, Newark, N. J. Automatic fan	334,717	Jan. 19	1729	461	34	334
Murray, Peter, Jr., Newark, assignor to himself, R. S. T. and R. B. Cissel, Elizabeth, and A. N. Lewis, Newark, N. J. Fan attachment	336,866	Feb. 23	2523	665	34	911
Murray, Peter, Jr., Newark, N. J., assignor to Backus Manufacturing Company. Fan	344,980	July 6	258	65	36	46
Murray, Peter, Jr., assignor to Backus Manufacturing Company, Newark, N. J. Rotary fan	347,952	Aug. 24	2110	562	36	878

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page
Murray, Peter, Jr., Newark, N. J., assignor to Backus Manufacturing Company. Hydraulic motor	348,136	Aug. 24	2352	631	36	924
Murray, Peter, Jr., assignor to Backus Manufacturing Company, Newark, N. J. Rotary fan	348,683	Sept. 7	211	56	36	1085
Murray, Peter, Jr., assignor to Backus Manufacturing Company, Newark, N. J. Differential hoisting-gear	348,684	Sept. 7	212	56	36	1086
Murray, Peter, Jr., assignor to Backus Manufacturing Company, Newark, N. J. Rotary fan	349,855	Sept. 28	1821	470	36	1410
Murray, Peter, Jr., assignor to Backus Manufacturing Company, Newark, N. J. Water-motor	349,856	Sept. 28	1821	470	36	1410
Murray, Peter, Jr., assignor to Murray Motor Manufacturing Company, Newark, N. J., Gas-engine	351,393	Oct. 26	1847	484, 485	37	356
Murray, Peter, Jr., assignor to Murray Motor Manufacturing Company, Newark, N. J., Gas-engine	351,394	Oct. 26	1853	485, 486, 487	37	357
Murray, Peter, Jr., assignor to Murray Motor Manufacturing Company, Newark, N. J., Gas-engine	351,395	Oct. 26	1865	487, 488	37	358
Murray, Samuel C., Silver Spring, Tenn. Car-coupling	342,376	May 25	1962	518	35	894
Murray, Timothy W. (See Kearney, Patrick J., assignor.)						
Murray, William, Providence, assignor of one-half to H. and J. W. Collins, Pawtucket, R. I. Stop-motion mechanism for winding and spooling machines	345,250	July 6	623	158	36	113
Murray, William A., Piako, Auckland, New Zealand. Hoe and cultivator	352,881	Nov. 16	1594	430	37	772
Murray, William A., Covington, Ky., assignor of three-fourths to A. L. France, Covington, Ohio, W. C. France, New York, N. Y., and F. Spinning, Cincinnati, Ohio. Making butter	335,084	Jan. 26	2216	.....	34	430
Murray, William T., *et al.* (See Miles, Jackson B., assignor.)						
Murry, John R., *et al.* (See Byrkit, Edwin M., assignor.)						
Murry, Walter C. (See Schroder, John, assignor.)						
Murtaugh, James. (See Gallagher, Patrick, assignor.)						
Murtaugh, James, New York, N. Y. Dumb-waiter	353,458	Nov. 30	2429	648	37	945
Muser, Adolph, assignor of one-half to L. Geismar, Detroit, Mich. Confectioner's melting bath	345,251	July 6	624	159	36	113
Musgrave, Mark, and H. J. Barton, Oak Bar, Cal. Ointment	334,539	Jan. 19	1487	.....	34	288
Musser, Frank P., Beaver Falls, Pa. Thill-coupling	342,304	May 18	1839	486	35	864
Mussinan, Oscar, Jr., New York, assignor to E. Faber, Port Richmond, N. Y. Uniting tubes	350,075	Sept. 28	2113	547	36	1465
Mustard, James E., Glen Hall, Ind. Draft-equalizer	345,252	July 6	625	159	36	113
Mustill, Frank R., Akron, Ohio. Banjo	350,693	Oct. 12	841	226	37	160
Mutchler, Jacob, Three Oaks, Mich. Thill-coupling	351,882	Nov. 2	220	62	37	499
Muth, Charles F. (See Weitzel, Jacob F., assignor.)						
Muther, Lorenz, assignor to Union Bag Machine Company, Chicago, Ill. Forming elastic stitching	344,492	June 29	2447	629	35	1479
Muther, Lorenz, assignor to Union Bag Machine Company, Chicago, Ill. Sewing-machine.	344,493	June 29	2449	629	35	1480
Mütti, Samuel, Mishawaka, Ind. Wagon-body lifter	335,233	Feb. 2	214	55	34	478
Mutti, Samuel, Mishawaka, Ind. Swinging gate	344,787	June 29	2812	735	35	1553
Myer, William P., Indianapolis, Ind. Hoisting-bucket	347,302	Aug. 10	1150	307	36	684
Myers, A., *et al.* (See Cohn, Abraham E., assignor.)						
Myers, Addison D., Geneva, Ohio. Making rakes	353,803	Dec. 7	211	56	37	1045
Myers, Christian B. (See Root and Myers.)						
Myers, Edward. (See Smith and Myers.)						
Myers, F. E. (See Myers, Philip A., assignor.)						
Myers, Frank I., New York, N. Y. Button	343,597	June 15	1213	304	35	1241
Myers, Frank I., New York, N. Y. Semaphore-signal	344,494	June 29	2451	629	35	1480
Myers, George L., Hontzdale, Pa. Boot-pattern	353,753	Dec. 7	139	38	37	1032
Myers, H., *et al.* (See Cohn, Abraham E., assignor.)						
Myers, Henry M., Beaver Falls, Pa. Manufacturing shovels	340,597	Apr. 27	2147	555, 556, 557	35	406
Myers, Henry M., Beaver Falls, Pa. Manufacturing shovels, spades, and scoops	340,598	Apr. 27	2149	557, 558	35	406
Myers, Henry M., Beaver Falls, Pa. Manufacturing shovels, spades, and scoops	340,599	Apr. 27	2150	559, 560	35	406
Myers, Henry M., Beaver Falls, Pa. Plant for manufacturing shovels	340,600	Apr. 27	2153	560, 561, 562	35	406
Myers, Henry M., Beaver Falls, Pa. Plant for the manufacture of shovels, spades, and scoops	340,601	Apr. 27	2153	562, 563	35	406
Myers, Henry M., Beaver Falls, Pa. Shovel	340,602	Apr. 27	2155	563, 564	35	407
Myers, Henry M., Beaver Falls, Pa. Blank for shovels	340,603	Apr. 27	2156	564	35	407
Myers, Henry M., Beaver Falls, Pa. Making shovels	340,604	Apr. 27	2157	564	35	407
Myers, Henry M., Beaver Falls, Pa. Blank for plain back shovels	340,605	Apr. 27	2158	565	35	407
Myers, Henry M., Beaver Falls, Pa. Plant for the manufacture of shovels	340,606	Apr. 27	2159	565, 566, 567	35	407
Myers, Henry M., Beaver Falls, Pa. Bar for making shovel-blanks	340,607	Apr. 27	2161	567	35	407
Myers, Henry M., Beaver Falls, Pa. Bar for making shovels	340,608	Apr. 27	2162	567, 568	35	407
Myers, Henry M., Beaver Falls, Pa. Machine for rolling blanks for shovels, &c.	340,953	Apr. 27	2630	692, 693	35	490
Myers, Henry M., Beaver Falls, Pa. Machine for forming shovel-blanks	340,954	Apr. 27	2630	693	35	490
Myers, Henry M., Beaver Falls, Pa. Machine for splitting the tangs and forming the sockets of shovel-blanks	348,037	Aug. 24	2214	591, 592	36	898
Myers, Henry M., Beaver Falls, Pa. Making shovels	353,372	Nov. 30	2297	613, 614	37	920
Myers, Henry M., Beaver Falls, Pa. Machine for cutting shovel-blanks	354,170	Dec. 14	769	206	37	1153
Myers, Henry S., New York, N. Y. Lamp-shade	348,232	Aug. 31	2513	675	36	958
Myers, Hiram, Springfield, Ohio. Rotary plow	352,655	Nov. 16	1295	350	37	715
Myers, Hiram, Springfield, Ohio. Horse hay-rake	353,424	Nov. 30	2378	634	37	935
Myers, John. (See McGrew, William H., assignor.)						
Myers, John, St. Louis, Mo. Horseshoe	350,441	Oct. 5	464	130	37	90
Myers, John, and S. L. Morrison, Springfield, Ohio. Car-coupling	339,575	Apr. 6	709	173	35	124
Myers, Levi, assignor to L. Miller, Akron, Ohio. Elevator for grain-harvesters	349,116	Sept. 14	802	203	36	1197
Myers, Lewis, *et al.* (See Swan, Henry H., assignor.)						
Myers, Lewis Y., Canton, Ohio. Post-hole digger	341,160	May 4	260	75	35	552

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Myers, Lewis Y., Canton, Ohio. Post-hole digger	342,835	June 1	85	21	35	1022
Myers, Oscar F. (See Murray, Charles H., assignor.)						
Myers, Philip A., Ashland, Ohio. Hay-carrier track	340,055	Apr. 13	1368	343	35	250
Myers, Philip A., assignor of one-half to F. E. Myers, Ashland, Ohio. Hay-carrier	344,325	June 22	2214	569	35	1430
Myers, William. (See Small, Isaac D., assignor.)						
Myers, William H., and L. Anderson, Oregon, Wis. Fence-post	335,298	Feb. 2	297	79	34	434
Myers, William J., Hartford, Conn. Bedstead	340,147	Apr. 20	1496	378	35	279
Myers, William M., Hannibal, Mo. Bee-hive	338,285	Mar. 23	1893	498	34	1290
Myers, William R., assignor of eleven-twentieths to J. B. Adams, Camden, N. J. Fire-kindler and fuel-block	337,782	Mar. 9	1203	313	34	1148
Myrick, Gilbert S., assignor to Goodell & Waters, Philadelphia, Pa. Wood-planing machine	350,892	Oct. 12	1119	297	37	211
Nachfolger, F. Von Heyden. (See Schmitt, Rudolf, assignor.)						
Nadal, Jean, Paris, France. Stud, solitaire, &c	341,268	May 4	413	114	35	581
Nadorff, Henry, Louisville, Ky. Beer-tap	352,144	Nov. 9	623	165	37	581
Nadow, Alexander S., Springfield, Mass. Steam car-brake	351,521	Oct. 26	2056	534	37	395
Naffziger, Joseph S., Wheatland, Mo. Hay rake and loader	337,697	Mar. 9	1100	283	34	1129
Nagel, August C., R. H. Kaemp, and A. Linnenbrügge, Hamburg, Germany. Apparatus for the hydropropulsion of vessels	340,237	Apr. 20	1636	414	35	305
Nagel, August C., R. H. Kaemp, and A. W. F. G. Linnenbrugge, assignors to Nagel and Kaemp, Hamburg, Germany. Driving-gear	335,832	Feb. 9	1049	277	34	636
Nagle, Ella, assignor to L. Fellheimer, New York, N. Y. Underwaist or strengthening-corset for children	337,280	Mar. 2	538	141	34	1026
Nahrung, William, Brooklyn, assignor to A. Kronsberg, New York, N. Y. Bung-lifter	336,342	Feb. 16	1814	476	34	776
Nally, Thomas, Lynn, Mass. Machine for crimping the quarters of boots and shoes	345,915	July 20	1602	412	36	301
Nancarrow, Robert R. (See Kitto, Paul, and Nancarrow.)						
Nance, Lee, Washington, D. C. Game apparatus	341,344	May 4	521	143 144	35	599
Naramore, Truman C., Los Angeles, Cal. Baling-press	333,660	Jan. 5	212	58	34	41
Nascimento, Manoel J. (See Roeske, Henry, assignor.)						
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Journal-bearing for crank-connecting rods	334,034	Jan. 12	742	203	34	146
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Connecting-rod for pistons, &c	334,035	Jan. 12	743	203	34	146
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Bearing-pin connecting-rod	334,036	Jan. 12	745	204	34	147
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Plunger-packing for engines	334,037	Jan. 12	746	204	34	147
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Governor for gas-engines	334,038	Jan. 12	747	204	34	147
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Gas-engine	334,039	Jan. 12	749	205	34	147
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Feeding and operating gas-engines	334,040	Jan. 12	752	205 206	34	148
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Operating explosive vapor-engines	334,041	Jan. 12	755	207 208	34	149
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Proportional water-meter	336,135	Feb. 16	1485	392	34	720
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Operating proportional water-meters	336,136	Feb. 16	1486	393	34	721
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Proportional water-meter	336,137	Feb. 16	1488	393	34	721
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Proportional water-meter	336,138	Feb. 16	1490	393	34	721
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Operating proportional water-meters	336,139	Feb. 16	1494	394	34	721
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Oscillating water-meter	336,140	Feb. 16	1497	394 395	34	722
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Oscillating water-meter	336,141	Feb. 16	1499	395 396	34	722
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Water-meter with revolving piston	336,142	Feb. 16	1502	396 397	34	722
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Water-meter with revolving piston	336,143	Feb. 16	1504	397	34	723
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Water-meter with revolving piston	336,144	Feb. 16	1507	398 399	34	723
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Operating proportional water-meters	336,145	Feb. 16	1510	399 400	34	723
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Proportional water-meter	336,146	Feb. 16	1515	400 401	34	724
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Operating proportional water-meters	336,147	Feb. 16	1520	401	34	724
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Proportional water-meter	336,148	Feb. 16	1522	401	34	724
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Oscillating meter	336,423	Feb. 16	1922	503 504	34	796
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Gas-engine	341,934	May 18	1325	354	35	771
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Oscillating water-meter	353,699	Dec. 7	63	16, 17	37	1017
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Proportional water-meter	353,700	Dec. 7	65	17	37	1018
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Proportional water-meter	353,701	Dec. 7	67	18	37	1018
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Proportional water-meter	353,702	Dec. 7	70	18, 19	37	1019
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Water-meter with revolving non-rotating piston	353,703	Dec. 7	71	19	37	1019
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Commingling flowing fluids in definite proportions	353,704	Dec. 7	73	19, 20	37	1020
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Device for commingling flowing fluids in definite proportions	353,705	Dec. 7	75	20, 21	37	1020
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Register-connection for piston-meters	353,805	Dec. 7	213	57	37	1046

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Oscillating water-meter	353,806	Dec. 7	215	58	37	1046
Nash, Nathan B., Westerly, R. I., assignor of one-half to R. H. Staley, Jersey City, N. J. Gas-engine	340,453	Apr. 20	1932	496 497	35	359
Nash, Scotto C., Harrisburg, Pa. Portable photographic camera	350,315	Oct. 5	285	81, 82	37	58
Nash, Thomas C., Chicago, Ill. Splicing cables	345,719	July 20	1319	342	36	250
Nash, Walter E., Darlington, Wis. Broom attachment	345,069	July 6	379	95	36	69
Nashua Lock Company. (See Sparks, William E., assignor.)						
Nasi, Luigi, Turin, Italy. Pump	341,042	May 4	91	26	35	522
Nason, Albert D. (See Olmstead and Nason.)						
Nason, Carleton W., New York, N. Y. Safety apparatus for automatic draft-regulators	337,013	Mar. 2	181	48	34	958
Nassau Manufacturing Company, W. L. (See Williams, George M., assignor.)						
Nast, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Operating gas-engines	341,935	May 18	1328	355	35	771
Nast, Thomas, *et al.* (See Pendleton, John H., assignor.)						
Nast, Thomas, *et al.* (See Pendleton and Tiers, assignors.)						
Nathan, Henry C., New York, N. Y. Mucilage-bottle	340,673	Apr. 27	2253	593	35	422
Nathan, John E., New York, N. Y. Snow-plow	339,680	Apr. 13	865	212	35	158
Nathan, John E., New York, N. Y. Railway appliance	353,754	Dec. 7	140	38	37	1032
Nathan Manufacturing Company. (See Gresham, James, assignor.) (Reissue.)						
Nathan Manufacturing Company. (See Kazcander and Ruddy, assignors.)						
Nathan Manufacturing Company. (See Ruddy, Robert, assignor.)						
Nation, George W., What Cheer, Iowa. Shutter or door for mines	350,599	Oct. 12	703	191	37	135
National Automatic Fire Alarm Company. (See Kells, Charles E., Jr., assignor.) (Reissue.)						
National Automatic Lubricator Company. (See Fréchette, Isaïe, assignor.)						
National Automatic Lubricator Company. (See Fréchette and Girard, assignors.) (Reissue.)						
National Car Starter Manufacturing Company of New Jersey. (See Morell and Goff, assignors.)						
National Cash Register Company. (See Patterson and Davis, assignors.)						
National Cash Register Company. (See Patterson, Davis, and Herrman, assignors.)						
National Chemical and Fertilizer Company. (See Van Ruymbeke, Joseph, assignor.)						
National Electrical Company. (See Parcelle, Albert L., assignor.)						
National Heavy Ordnance Company. (See Mefford, David M., assignor.)						
National Heeling Machine Company. (See Demary, George T., assignor.)						
National Heeling Machine Company. (See Gardner, James B., assignor.)						
National Improved Telephone Company. (See Perrin, Thomas J., assignor.)						
National Machine Company. (See Morris, George M., assignor.)						
National Manufacturing Company. (See Cross, Frank, assignor.)						
National Manufacturing Company. (See Johnson, William J., assignor.)						
National Meter Company. (See Nash, Lewis H., assignor.)						
National Meter Company. (See Nast, Lewis H., assignor.)						
National Needle Company. (See Berry, John, assignor.)						
National Suspender Company. (See Stewart, George W., assignor.)						
National Tube Works Company. (See Mack, William B., assignor.)						
National Tube Works Company. (See Patterson, Peter, assignor.)						
National Tube Works Company. (See Peckham, Edgar, assignor.)						
National Typographic Company. (See Maltby, Frank D., assignor.)						
National Typographic Company. (See Mergenthaler, Ottmar, assignor.)						
National Waterproof Shoe Company. (See Moore, Lee E., assignor.)						
Nauerth, George V., Cincinnati, Ohio. Revolving book-case	353,958	Dec. 7	445	121	37	1088
Naumann, Charles. (See Butch, Leonard C., assignor.)						
Navarro, Jose F. (See Mathey, Henry, assignor.)						
Navone, Antonio L., Calistoga, Cal. Hub and general boring and mortising machine	353,877	Dec. 7	320	83, 84	37	1065
Naylor, James, Providence, R. I. Shutter-worker	342,123	May 18	1587	423	35	819
Naylor, James, Providence, R. I. Blind-slat adjuster	342,124	May 18	1588	423	35	820
Naylor, James, Jr. (See Sedgwick and Naylor.)						
Naylor, James, Jr., Poughkeepsie, assignor, by mesne assignments, to D. H. Burrell, Little Falls, N. Y. Stop-motion for printing-machines	335,768	Feb. 9	964	255 256	34	619
Neacy, Thomas J., Milwaukee, Wis. Saw-mill dog	337,856	Mar. 16	1309	339	34	1174
Neahr, Jacob W. (See Dillenbeck and Neahr.)						
Neal, George W. B., assignor of three-fourths to I. C. Hall, T. Morehouse, and H. Haney, Farmer Village, N. Y. Metallic sidewalk	351,647	Oct. 26	2247	581	37	429
Neal, Oliver L., Waltham, Mass. Watch-maker's screw-driver	334,886	Jan. 26	1941	517	34	381
Neal, Oliver L., Waltham, Mass. Screw and drill tool	348,765	Sept. 7	311	83	36	1105
Neal, Sarah C., New York, N. Y. Bath or bathing apparatus	334,674	Jan. 19	1668	446	34	322
Neale, George F., and M. P. Elliott, Crystal City, Mo. Machine for grinding and smoothing plate-glass	348,766	Sept. 7	312	83, 84	36	1105
Neall, Samuel W., Philadelphia, Pa. Seal-lock	347,191	Aug. 10	991	264	36	655
Neals, Francis A. A., *et al.* (See Brooks, Willard P., assignor.)						
Near, John C., Cato, N. Y. Ironing-board	354,566	Dec. 21	1335	354	37	1263
Needham, Franklin M. (See Macphail and Needham.)						
Needles, George M., Stuart, Nebr., and E. G. Fisher, Atlantic, Iowa. Plow	336,734	Feb. 23	2352	616	34	880
Neer, Charles F., Catawba, Ohio. Check rower and marker	349,402	Sept. 21	1187	307 308	36	1281
Neff, Elijah, Rochester, assignor to W. Shipley, Claypool, Ind. Pump	350,761	Oct. 12	929	250	37	176
Neff, Elijah, assignor to C. C. Wolf and W. H. Green, Rochester, Ind. Pump	339,005	Mar. 30	2926	775	34	1478
Neff, Jacob C., Perrysburg, Ohio. Mower and reaper knife grinder	342,125	May 18	1589	424	35	820
Neff, John, Jr., Pultney, N. Y. Culling-shears	352,560	Nov. 16	1162	313	37	690
Neff, John, Jr., Pultney, N. Y. Pruning-shears	352,561	Nov. 16	1163	313	37	690
Neff, Joseph B., assignor to M. E. Neff, Burlington, Iowa. Stalk-cutter	344,850	July 6	73	19	36	14
Neff, Mary E. (See Neff, Joseph B., assignor.)						
Neff, Nathan, *et al.* (See Wade, William, assignor.)						
Neff, Thomas H., assignor of one-half to S. A. Shroff, York, Pa. Bearing-block for vehicle-springs	345,392	July 13	816	206	36	153
Neider, Fred A., Augusta, Ky. Box-loop	336,735	Feb. 23	2353	616	34	880
Neil, Kuhns & Co. (See Neil, William, assignor.)						
Neil, William, assignor to Neil, Kuhns & Co., Chicago, Ill. Measuring-tank	349,734	Sept. 28	1653	427	36	1377
Neilson, James A., Philadelphia, Pa. Fire-escape	339,918	Apr. 13	1177	292	35	217
Neisler, Oscar L., Indianapolis, Ind. Combined latch and lock	334,887	Jan. 26	1942	517	34	381
Neisler, Oscar L., Indianapolis, Ind. Spoke-socket	344,455	June 29	2391	616	35	1470
Nelke, Louis. (See Hall, Edward L., assignor.)						
Nelke, Louis, assignor, by mesne assignments, to United States Prismatic Light Company, Baltimore, Md. Incidence-window	342,030	May 18	1450	388	35	793

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Nellis, Aaron J., Pittsburg, Pa. Wire-fastening device for fence-posts	337,857	Mar. 16	1310	340	34	1174
Nelmes, Philip N., Taunton, Mass. Mosquito-screen attachment for hammocks	348,685	Sept. 7	214	56	36	1086
Nelson, Adolph, Brooklyn, N. Y. Button	337,607	Mar. 9	988	253	34	1111
Nelson, Alfred. (See Nelson, J. and A.)						
Nelson, Allen. (See Nickle and Nelson.)						
Nelson, Charles, East New York, N. Y. Machine for making muffling-strips for slates, &c	352,145	Nov. 9	624	165	37	581
Nelson, Charles R., New York, N. Y. Window-bead fastener	338,433	Mar. 23	2110	552	34	1328
Nelson, George W., New York, N. Y. Burglar-alarm	334,888	Jan. 26	1943	517	34	381
Nelson, Hugh, assignor of one-half to D. M. Shuno, Philadelphia, Pa. Machine for burnishing boots and shoes	334,394	Jan. 12	1273	343	34	243
Nelson, J., deceased, (A. Nelson, administrator,) and A. Nelson, assignors to A. Nelson, administrator, R. Emerson, and W. A. Talcott, Rockford, Ill. Spooling-machine	335,473	Feb. 2	531	139	34	536
Nelson, James, Titusville, Pa. Grain-conveyer	349,233	Sept. 14	959	245	36	1238
Nelson, John, Sandwich, Ill. Corn-planter	339,201	Apr. 6	126	34	35	25
Nelson, John L., and A. F. Landerholm, Chicago, Ill. Water-gage valve	335,098	Dec. 28	2102	552	37	1418
Nelson, Lars P., Chicago, Ill. Mattress	341,387	May 4	587	161	35	611
Nelson, Lars P., Chicago, Ill. Woven-cord furniture	342,836	June 1	86	21, 22	35	1022
Nelson, Oliver R., Chicago, Ill. Oil-press mat	349,515	Sept. 21	1342	348, 349	36	1312
Nelson, Peter M., Minneapolis, Minn. Dust-collector	338,765	Mar. 30	2580	680	34	1417
Nelson, Richard L., Orange County, Va. Percolator	340,811	Apr. 27	2445	643	35	457
Nelson, William H., Alexandria, Va. Street-car	353,678	Dec. 7	323	84	37	1066
Nencki, Marrel V., Berne, Switzerland, and R. Seifert, assignors to F. Von Heyden, Radebeul, Dresden, Germany. Production of salol	350,012	Sept. 28	2029	.....	36	1449
Nenninger, Robert F., Newark, N. J. Composition for floor and wall coverings, &c	342,377	May 25	1963	.....	35	895
Nenninger, Robert F., Newark, N. J. Manufacturing composition for floor and wall coverings, &c	342,378	May 25	1964	.....	35	895
Nenninger, Robert F., Newark, N. J. Electroplated fabric	344,397	June 29	2320	598	35	1457
Neracher, William, Cleveland, Ohio. Fire-extinguisher	340,812	Apr. 27	2447	643	35	159
Neracher, William, Cleveland, Ohio. Filtering apparatus	343,251	June 8	697	172, 173	35	1142
Neracher, William, Cleveland, Ohio. Automatic fire alarm and extinguisher	344,673	June 29	2687	697	35	1526
Nesbitt, Amos K., assignor of one-fourth to H. B. Starr, Alton, Ill. Painting-machine	350,384	Oct. 5	373	107, 108	37	75
Nesbitt, John D., Everett, Mass. Umbrella	351,280	Oct. 19	1671	439	37	318
Nesler, Charles F., Newark, N. J. Razor-guard	338,864	Mar. 30	2711	713	34	1441
Nesmith, Charles L. (See Long, William H., assignor.)						
Nesmith, John W. (See Short and Nesmith.)						
Nesom, Thomas, assignor of one-half to R. E. Poindexter, Indianapolis, Ind. Steam-boiler	347,502	Aug. 17	1436	381	36	745
Nestlen, Adolf, Freudenstadt, Würtemberg, Germany. Lighting and closing device for bakers' ovens	347,953	Aug. 24	2111	562	36	878
Nettekoven, Daniel, Fort Shaw, Mont. Ter. Safety attachment for watches	352,256	Nov. 9	778	208	37	608
Nettekoven, Daniel, Fort Shaw, Mont. Ter. Watch-pendant key	352,257	Nov. 9	779	208, 209	37	609
Netter, Charles, New York, N. Y. Metal tie for railway-tracks	351,996	Nov. 2	391	106	37	531
Nettleton, Wilbur E., *et al.* (See Babbitt, Seth W., assignor.)						
Nettleton, William A. (See Littlejohn, Charles F., assignor.)						
Nettleton, William A., Bridgeport, Conn. Machine for covering corset-stays	355,199	Dec. 28	2242	591, 592	37	1447
Nettleton, William A., and C. F. Littlejohn, Bridgeport, Conn.; said Littlejohn assignor to said Nettleton. Machine for covering corset-stays	340,347	Apr. 20	1799	461, 462	35	335
Nettleton, William A., and C. F. Littlejohn, Bridgeport, Conn.; said Littlejohn assignor to said Nettleton. Machine for covering corset-stays	355,198	Dec. 28	2240	591	37	1446
Neuenschwander, Rudolph G., assignor to W. T. Coleman, San Francisco, Cal. Apparatus for treating crude alkaline material	339,681	Apr. 13	865	212	35	458
Neuenschwander, William S., Lima, Ohio. Kitchen-sink	342,531	May 25	2183	578	35	933
Neuer, William W., Wilkes-Barré, Pa. Preventing discoloration of burnt brick	340,609	Apr. 27	2162	.....	35	407
Neuer, William W., Wilkes-Barré, Pa. Composition of matter to be used for preventing discolorization of burnt brick, &c	350,550	Oct. 12	630	.....	37	122
Neuer, William W., Wilkes-Barré, Pa. Transom-lifter	355,200	Dec. 28	2244	592	37	1447
Neuhaus, Ferdinand, Solingen, Prussia, Germany. Pocket-cutlery	337,858	Mar. 16	1311	340	34	1174
Neuhaus, Friedrich, Belleville, Ill. Spool-holder for sewing-machines	349,446	Sept. 21	1250	324	36	1292
Neumann & Co., R. (See Flocke, Robert, assignor.)						
Neun, William H., Grenola, Kans. Releasing device	344,674	June 29	2689	698	35	1527
Neuss, Hubert F., Aix-la-Chapelle, Germany. Safety-pin	334,541	Jan. 19	1489	399	34	989
Neutscher, Allise, Mendota, Ill. Combined pulverizer, cultivator, and road-scraper	350,762	Oct. 12	930	251	37	176
Neverslip Horseshoe Company. (See McGowan, William S., Jr., assignor.)						
Neverslip Horseshoe Company. (See Stone, Samuel, assignor.)						
Neverslip Horseshoe Company. (See Warren, B. Howard, assignor.)						
Nevin, David W., Easton, Pa. Sunday-school library-record system	354,651	Dec. 21	1469	390	37	1287
Nevins, John H., Minneapolis, Minn. Combined self-feeding cooking and heating stove	334,971	Jan. 26	2054	548	34	401
New England Butt Company. (See Keene, Samuel D., assignor.)						
New England Manufacturing Company. (See Bosworth, Charles B., assignor.)						
New England Telephone and Telegraph Company. (See Carty, John J., assignor.)						
New England Wiring Company. (See Ward and Jenks, assignor.)						
New Giant Power Company. (See Adams, James E. and J. W., assignors.)						
New Haven Clock Company. (See La Bau, John H., assignor.)						
New Haven Clock Company. (See Lane, Fred. A., assignor.)						
New Haven Clock Company. (See Winterhalder, Louis, assignor.)						
New Haven Clock Company. (See Wood, Frank B., assignor.)						
New Haven Watch Company. (See Bingham, Albert D., assignor.)						
New Haven Watch Company. (See Byam, Sewall T. J., assignor.)						
New, Tobias, Brooklyn, N. Y. Composite felt roofing	341,043	May 4		26	35	522
New York Felting Company. (See Hyatt, Walter P., assignor.)						
New York Lead Seal and Press Company. (See Brooks, Franklin W., assignor.)						
New York Safety Gage Company. (See Phelps, Richard N. R., assignor.)						
New York Safety Steam Power Company. (See Davis, David P., assignor.)						
New York Stencil Works. (See Tarbox, Eugene L., assignor.)						
Newark Filtering Company. (See Hyatt, John W., assignor.)						
Newark Machine Company. (See Miller, Abraham, assignor.)						
Newbaker, John J., Steelton, Pa. Sprag for mining-cars	352,882	Nov. 16	1596	430	37	773
Newberry, J. R. (See Keeney, John W., assignor.)						
Newbery, John H., Waterford, Conn. Sash-holder	335,711	Feb. 9	881	231	34	604
Newburn, Walter, U. S. Army. Fire-grate	354,567	Dec. 21	1335	354	37	1263

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Newbury, James G. (See Mack and Newbury.)						
Newbury, James G., Albany, N. Y. Toy gun	348,860	Sept. 7	430	115	36	1127
Newby, Albert S., Nashville, Tenn. Stove	351,648	Oct. 26	2247	582	37	429
Newcomb, Wyman J., assignor to C. A. Wilcomb, Springfield, Mass. Folding table	353,459	Nov. 30	2430	648	37	946
Newell, Fred A., *et al.* (See Costello, John, assignor.)						
Newell, Henry G., Orwell, Pa. Gearing for windmills	346,674	Aug. 3	281	77	36	516
Newell, John A., Cochran, Ind. Reclining-chair	352,773	Nov. 16	1447	390	37	744
Newell, Lewis T., Albany, N. Y. Gridiron	347,822	Aug. 24	1913	509	36	843
Newell, Milton, and J. O. Litten, Fresno City, Cal. Two-wheeled vehicle	344,129	June 22	1945	497	35	1381
Newell, Nelson C., Springfield, Mass. Button	347,633	Aug. 17	1644	436	36	785
Newell, Olney, Denver, Colo. Stock-car	355,277	Dec. 28	2357	620	37	1469
Newell, Oscar A., *et al.* (See Booth, John, assignor.)						
Newell, Louis. (See Adams, James A., assignor.)						
Newhall, George M., Philadelphia, Pa. Dissolving and straining sugar	334,972	Jan. 26	2055	548	34	401
Newhall, George M., Philadelphia, Pa., and A. W. Colwell, New York, N. Y. Bone-black drier	341,497	May 11	728	196	35	647
Newhall, Wilbert, Covington, Ky. Sulky corn-planter	353,959	Dec. 7	447	122	37	1088
Newhard, Franklin H. D., Hokendauqua, Pa. Automatic car-brake	335,377	Feb. 2	408	104, 105	34	514
Newhard, Franklin H. D., Hokendauqua, Pa. Car-brake	335,378	Feb. 2	409	105	34	515
Newhard, Franklin H. D., Hokendauqua, Pa. Car-brake	335,379	Feb. 2	411	105, 106	34	515
Newhard, Franklin H. D., Hokendauqua, Pa. Car-brake	335,380	Feb. 2	412	106	34	515
Newhard, Franklin H. D., Hokendauqua, Pa. Car-brake	348,038	Aug. 24	2215	592	36	898
Newhard, Franklin H. D., Hokendauqua, Pa. Car-brake	348,039	Aug. 24	2217	593	36	898
Newhard, Franklin H. D., Hokendauqua, Pa. Car-brake	348,040	Aug. 24	2218	593	36	899
Newhard, Franklin H. D., Hokendauqua, Pa. Brake-shoe	348,041	Aug. 24	2220	594	36	899
Newkirk, Abram, Cleveland, Ohio. Fence	334,973	Jan. 26	2057	548	34	401
Newkirk, Abram, Cleveland, Ohio. Fence	339,919	Apr. 13	1180	293	35	217
Newland, Alonzo H. (See Newland, Iredale, and Newland.)						
Newland, David J., *et al.* (See Secor, Jerome B., assignor.)						
Newland, Ivanho W., W. J. Iredale, and A. H. Newland, Boulder, Colo. Automatic railway-switch	336,058	Feb. 9	1369	361	34	692
Newman, Anton E., assignor of one-half to L. Beckhardt, New York, N. Y. Obtaining fiber from fiber-producing plants	345,984	July 20	1697	437	36	317
Newman, Anton E., assignor of one-half to L. Beckhardt, New York, N. Y. Scutching-machine	345,985	July 20	1698	437	36	318
Newman, Edwin A., Washington, D. C., assignor of one-fourth to D. L. Suediker, Emporia, Kans. Anti-freezing apparatus for water-pipes	346,308	July 27	2143	552, 553	36	410
Newman, George H., administrator. (See Newman, James W.)						
Newman, James A., Greenfield, Ohio. Cattle-pump	342,627	May 25	2320	612	35	959
Newman, James W., deceased, (G. H. Newman, administrator,) Fayetteville, Tenn. Riding-saddle	335,474	Feb. 2	532	139	34	537
Newman, John J. (See Miller and Newman.)						
Newman, John W., Decatur, assignor to himself and D. P. Shaw, Aurora, Tex. Riding-saddle	340,892	Apr. 27	2550	672	35	475
Newman, Nelson, Springfield, Ill. Hoop-fastener	339,006	Mar. 30	2927	775	34	1479
Newman, Nelson, Springfield, Ill. Hoop-lock	340,674	Apr. 27	2254	593	35	422
Newman, Nelson, assignor to Advertising Alarm Sign Company, Springfield, Ill. Hoop-fastener	358,644	Mar. 23	2386	628	34	1376
Newman, Oscar M., Milton, Fla. Show stand or rack	351,649	Oct. 26	2248	582	37	430
Newman, William C., Charlevoix, Mich. Bridge-guard	348,410	Aug. 31	2748	738	36	1005
Newman, William L. (See Prinzhorn, Hermann, assignor.)						
Newsom, John Q. A., Seymour, Ind. Steam plowing, pulverizing, and cultivating machine	349,807	Sept. 28	1754	452, 453	36	1396
Newsom, John Q. A., Seymour, Ind. Rotary plow	352,956	Nov. 23	1699	456, 457	37	800
Newsom, John Q. A., Seymour, Ind. Traction-engine	353,155	Nov. 23	1997	534, 535	37	857
Newstrom, Andrew, Red Wing, Minn. Bob-sled	341,679	May 11	993	262	35	699
Newton, Arthur, Boston, Mass., assignor to Newton & Hibbard Machine Company, Portland, Me. Machine for pointing wire nails	350,837	Oct. 12	1046	280	37	198
Newton, Collins F., assignor of one-half to W. S. Wing, Omaha, Nebr. Train-signal	333,774	Jan. 5	380	104	34	72
Newton, Edward S., East Saginaw, Mich. Pillow-block	353,960	Dec. 7	450	122	37	1089
Newton, Franklin D. (See Endemann, Hermann, assignor.)						
Newton, George W., and G. Terry, Hubbard, Ohio. Bier	353,373	Nov. 30	2299	614	37	920
Newton, Henry, Providence, R. I., assignor to himself, and H. O. Johnson, Boston, Mass. Pipe-wrench	341,815	May 11	1165	311	35	734
Newton, Henry J., assignor to E. & H. T. Anthony & Co., New York, N. Y. Apparatus for manufacturing double-film photographic sensitive paper	343,387	June 8	919	230	35	1181
Newton & Hibbard Machine Company. (See Newton, Arthur, assignor.)						
Newton, Lewis W., assignor to Clinton Wire Cloth Company, Clinton, Mass. Metallic lathing	344,592	June 29	2584	669	35	1506
Newton, Lewis W., assignor to Clinton Wire Cloth Company, Clinton, Mass. Filling-carrier for looms for weaving wire	345,167	July 6	508	130	36	92
Newton, Lukens, Cortland, Ohio. Harrow	342,631	May 18	1451	388	35	793
Newton, Nelson A., Kalamazoo, Mich. Carriage-spring	351,708	Oct. 26	2321	604	37	445
Newton, Robert, Providence, R. I. Steam-trap	334,272	Jan. 12	1118	300	34	215
Newton, Robert, Providence, R. I. Combined steam, water, and dirt separator	354,730	Dec. 21	1576	417	37	1307
Newton, William H., Assumption, Ill. Table	340,921	Apr. 27	2587	682	35	482
Newton, William H., Assumption, Ill. Revolving table	348,042	Aug. 24	2221	594	36	899
Newton, William H., Tower Hill, Ill. Cultivator	353,579	Nov. 30	2603	695	37	978
Ney, Georg W., *et al.* (See Brubaker, John H., assignor.)						
Ney, Jacob, assignor to Ney Manufacturing Company, Canton, Ohio. Hay-fork	335,036	Jan. 26	2146	571	34	417
Ney Manufacturing Company. (See Ney, Jacob, assignor.)						
Neyrand, Jean B., Lyons, France. Electric pile	347,823	Aug. 24	1914	509	36	843
Nicaise, Joseph, Collinsville, Ill. Draining cellars	349,735	Sept. 28	1654	427	36	1377
Nichol, John C., Montreal, Quebec, Canada. Axle-lubricator	338,287	Mar. 23	1895	498	34	1291
Nicholas, Charles E., Toledo, Ohio. Sash-lock	350,694	Oct. 12	842	227	37	160
Nicholas, Edward J. (See Gerber and Nicholas.)						
Nichols, Alvin L. (See McGiven, Nichols, and Darnell.)						
Nichols, Ambrose J. (See Doeg, Issachar W., assignor.)						
Nichols, Ambrose J., New Market, N. H. Spooler-guide	334,799	Jan. 26	1836	490	34	362

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Name, residence, and invention	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Nichols, Benjamin F., Brookline, assignor of one-half to E. E. Allen, Watertown, Mass. Whip-stock	336,255	Feb. 16	1692	441	34	755
Nichols, Benjamin F., Brookline, assignor of one-half to J. Pomeroy, Springfield, Mass. Coupling	339,204	Apr. 6	128	34	35	25
Nichols, Edward, *et al.* (See Haskin, Uri, assignor.)						
Nichols, Emory L., San Francisco, Cal. Quartz breaker and pulverizer	344,004	June 22	1759	453	35	1349
Nichols, George D., New York, N. Y. Corset	354,610	Dec. 21	1414	374	37	1277
Nichols, George H., *et al.* (See Herreshoff, John B. F., assignor.)						
Nichols, Herbert N., Denver, Colo. Ore-concentrator	354,989	Dec. 28	1942	513	37	1389
Nichols, John P., Marion, Ind. Exercising-machine and register therefor	346,655	Aug. 3	282	78	36	516
Nichols, L. T., Claremont, Minn. Draft-equalizer	339,007	Mar. 30	2928	775	34	1479
Nichols, L. T., Claremont, Minn. Car-coupling	339,071	Mar. 30	3013	796	34	1492
Nichols, Martin V., *et al.* (See Lottridge, William, assignor.)						
Nichols, Nathaniel E., Mount Tabor, Vt. Wooden scoop	344,541	June 29	2522	650	35	1493
Nichols, Reuben E., Philadelphia, Pa. Composition for preserving and waterproofing	349,172	Sept. 14	873	.....	36	1211
Nichols, William H., *et al.* (See Herreshoff, John B. F., assignor.)						
Nicholson, Alfred. (See Knight, John L., assignor.)						
Nicholson, Charles W., Assamoosick, Va. Guano-distributer	348,686	Sept. 7	215	57	36	1086
Nicholson, Ellis H., Santa Maria, Cal. Gang-plow	346,766	Aug. 3	389	107	36	536
Nicholson, Ezra, Cleveland, Ohio. Apparatus for making steel	340,000	Apr. 13	1294	323, 324	35	237
Nicholson, Frank M., Hunt's, N. Y. Bag-holder	352,835	Nov. 16	1532	412	37	739
Nicholson, Henry C., Mount Washington, Ohio. Automatic electric signal	347,634	Aug. 17	1645	436	36	785
Nickel, David, Morris, Ill. Door-hanger	349,173	Sept. 14	874	223	36	1211
Nickel, David, Morris, Ill. Spring-hinge	350,208	Oct. 5	161	47	37	33
Nickels, William F., Philadelphia, Pa. Water-cooler and refrigerator	348,043	Aug. 24	2222	594	[illegible]	899
Nickenich, Jacob. (See Helm and Nickenich.)						
Nickerson, Luke A., Rockford, Ill. Shears	338,286	Mar. 23	1894	498	34	1291
Nickle, John, and A. Nelson, Grand Forks, Dak. Ter. Steam-boiler filter	335,948	Feb. 9	1217	323, 324	34	666
Nicol, Robert, Jr., assignor to C. W. Shonk, Chicago, Ill. Sign	337,188	Mar. 2	411	107	34	1002
Nicolay, Wendel, Jersey City, N. J. Cord or rope fastener	339,008	Mar. 30	2929	776	34	1479
Nicolls, Charles H., assignor of one-half to C. E. Chappell, Jordan, N. Y. Truss	343,388	June 8	921	230	35	1181
Nicols, Parshall D. (See Taylor, William, assignor.)						
Niederer, Georg T. A., Hamburg, Germany. Apparatus for purifying grain	342,220	May 18	1703	453, 454	35	841
Niehans, George L., St. Louis, Mo. Hot-air furnace	350,076	Sept. 28	2114	547	36	1466
Niehoff, Henry, New York, N. Y. Coal-receptacle	346,676	Aug. 3	285	78	36	516
Nielsen, Otto, Jersey City, N. J. Safety collecting-box	338,354	Mar. 23	1992	524, 525	34	1308
Nies, Samuel E. (See Woerner and Nies.)						
Nies, Samuel E., Reading, Pa. Clamp	339,072	Mar. 30	3014	797	34	1492
Nies, Samuel E., Reading, Pa. Sash-cord fastener	344,748	June 29	2788	721	35	1543
Nightingale, James, Jr., New York, N. Y. Take-up and let-off mechanism for looms for weaving broad silk	351,934	Nov. 2	302	83, 84	37	513
Nightingale, John. (See Nightingale, Joseph and J.)						
Nightingale, John and J., Paterson, N. J. Stop-motion for doubling-machines	341,597	May 11	871	232	35	675
Nightingale, Joseph. (See Nightingale, John and J.)						
Nightingale, Joseph and J., Paterson, N. J. Let-off mechanism for looms	348,335	Aug. 31	2641	712, 713	36	985
Nightingale, Joseph and J., Paterson, N. J. Quilling-machine	348,336	Aug. 31	2643	713	36	985
Niles, Aaron, Manson, Iowa. Ironing-machine	342,221	May 18	1704	454	35	842
Niles, Milton C., Chicago, Ill. Knob-latch	352,562	Nov. 16	1164	313, 314	37	691
Niles, Sinclair D. G., Trigonia, Tenn. Egg case	350,442	Oct. 5	465	131	37	90
Niles Tool Works. (See Cullen, James K., assignor.)						
Niles Tool Works. (See Cullen and See, assignors.)						
Niles Tool Works. (See Gordon, Alexander, assignor.)						
Niles Tool Works. (See Williams, John R., assignor.)						
Nilsen, Anders, Jefferson, Ill. Square and protractor for builder's use	339,682	Apr. 13	867	213	35	159
Nilson, Nils J., Meridian, Wis. Horse hay-fork	347,253	Aug. 10	1072	287	36	671
Niver, Edward, Muscatine, Iowa. Core-strengthening bar	344,398	June 29	2321	598	35	1458
Nixon, Francis M., Lena, Ill. Mechanical movement	335,531	Feb. 2	615	161	34	550
Nixon, George W., Rockwood, assignor of one-half to W. M. Nixon, Chattanooga, Tenn. Ratchet mining-drill	338,863	Mar. 30	2709	713	34	1441
Nixon, James B., St. Louis, Mo. Car-coupling	353,804	Dec. 7	212	56, 57	37	1046
Nixon, William A., Maple Rapids, Mich. Broom	349,897	Sept. 28	1869	483	36	1420
Nixon, William M. (See Nixon, George W., assignor.)						
Nober, Julius A., Bolivar, N. Y. Vest-safety protector	345,646	July 13	1217	314	36	225
Nobes, George, Harrow Road, county of Middlesex, England. Self-acting gas-cock	354,021	Dec. 7	540	147	37	1105
Noble, Clarence B., Cleveland, Ohio. Clutch for electric lamps	346,217	July 27	2018	521	36	387
Noble, D. Rogers. (See Ferguson, Arthur C., assignor.)						
Noble, Edward, Jr., St. Louis, Mo., and G. F. Branham, Indianapolis, Ind. Metal-bending apparatus	345,444	July 13	900	224, 225, 226	36	167
Noble, Edward, Jr., St. Louis, Mo., and G. F. Branham, Indianapolis, Ind. Endless-cable car-propelling mechanism	348,574	Sept. 7	53	15, 16, 17	36	1057
Noble, George H., Providence, R. I., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Trimming attachment for sewing-machines	334,718	Jan. 19	1731	461, 462	34	334
Noble, George R., Buckhurst Hill, county of Essex, England. Making lead-lined boilers	345,168	July 6	509	130	36	93
Noble, Howard C. (See Herrick, Frank J., assignor.)						
Noble, James, New York, N. Y. Plumber's fitting	334,542	Jan. 19	1489	399	34	289
Noble, James, New York, N. Y. Plumber's fitting	334,543	Jan. 19	1490	399	34	289
Noble, James, Jr. (See Mullen and Noble.)						
Noble, James, Jr., *et al.* (See Morse, William J., assignor.)						
Noble, John D., and B. F. Metzler, Holden, Mo. Churn	345,529	July 13	1038	264	36	192
Noble, John H. (See Gissinger, Samuel, assignor.)						
Noble, John H. (See Kearns and Noble.)						
Noble, Oscar L., assignor to H. Rogers, trustee, Boston, Mass. Rotary cutter	337,698	Mar. 9	1101	284	34	1130
Nock, George W., Philadelphia, Pa., assignor of one-half to J. R. Floyd, New York, N. Y. Elevating device for covers of gas-purifiers	348,137	Aug. 24	2354	631	36	924
Noe, Marsh, Davenport, Iowa. Hame-fastener	337,699	Mar. 9	1101	284	34	1130

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Noé, William R., Newark, N. J. Medicine-spoon	350,499	Oct. 12	565	156	37	110
Noé, William R., Newark, N. J., assignor to Holmes, Booth & Haydens, Waterbury, Conn.) Suspension-lamp	348,291	Aug. 31	2587	695, 696	36	974
Nöel, Pierre, New York, N. Y. Folding chair	335,037	Jan. 26	2147	571, 572	34	417
Nolan, John F., San Francisco, Cal. Composition for preventing and removing rust	333,883	Jan. 5	527	.....	34	99
Nolan, John H., Pleasanton, Kans. Lamp-chimney cleaner	345,169	July 6	510	131	36	93
Nolan, John H., Pleasanton, Kans. Weather-strip	346,060	July 20	1800	464	36	336
Nolan, Patrick, Birmingham, Ala. Railway-frog	349,260	Sept. 14	961	253	36	1234
Nolan, William E., Brooklyn, N. Y. Water-heater	352,628	Nov. 16	1259	339	37	708
Nolan, William F. (See Powell and Nolan.)						
Nolen, Robert, assignor of two-thirds to O. F. Rodgers and A. P. Brush, Jr., Colorado, Tex. Hub	348,635	Sept. 7	141	40	36	1073
Nolin, Gervais, Skowhegan, Me. Manufacture of grass-hooks	336,819	Feb. 23	2465	647	34	901
Nolte, August, *et al.* (See Schmalz, Arthur, assignor.)						
Nolte, August, assignor of two-thirds to A. Schmalz and W. Lorenz, Dundee, Ill. Fastener for shoes, &c	337,783	Mar. 9	1204	313	34	1148
Nonantum Worsted Company. (See Hall, George F., assignor.)						
Noonan, Philip, Edgard, La. Railway-track system	349,447	Sept. 21	1251	324	36	1292
Noonan, Thomas. (See Flynn, James J., assignor.)						
Noone, Joseph F., Peterborough, N. H. Truss	343,485	June 8	1059	264	35	1206
Norcott, Charles E. (See Holbrook and Norcott.)						
Norcross, Linnaeus B., Birmingham, Iowa. Stem-winding watch	347,886	Aug. 24	2003	531	36	858
Norcross, William M., Brooklyn, N. Y. Governor	337,514	Mar. 9	878	222	34	1090
Norden, Charles J., De Kalb, Ill. Coffin	337,426	Mar. 9	748	192	34	1069
Nordenborg, Alexander O., New York, N. Y. Fire-escape ladder	342,924	June 1	212	54	35	1043
Nordenfelt, Thorsten, Westminster, England. Ordnance-carriage	338,766	Mar. 30	2582	681	34	1417
Nordenfelt, Thorsten, 53 Parliament Street, Westminster, England. Machine-gun	340,725	Apr. 27	2330	613, 614	35	435
Nordenfelt, Thorsten, 53 Parliament Street, Westminster, England. Breech-loading fire-arm	340,726	Apr. 27	2332	614, 615	35	436
Nordenfelt, Thorsten, Westminster, England. Propulsion of vessels and rendering invisible the smoke discharged therefrom	344,054	June 22	1838	471	35	1362
Nordmann, Prosper. (See Lugrin, Henry A., assignor.) (Reissue.)						
Nordmann, Prosper. (See Morlet, Charles, assignor.)						
Nordyke, Emanuel, Heppner, Oreg. Lifting-jack	333,968	Jan. 5	643	177	34	121
Nordyke & Marmon Company. (See Warrington, Jesse, assignor.)						
Normal Company. (See Sahlström, Carl A., assignor.)						
Norman, William W. (See Smith, S. Henry, assignor.)						
Normand, Joseph M., assignor of one-half to J. K. Mower, Springfield, Ohio. Pump	336,940	Mar. 2	76	20, 21	34	940
Normandy, Henry, Providence, R. I. Clothes-drier	338,288	Mar. 23	1896	498	34	1291
Norris, Charles S., *et al.* (See Eirick, Luther M., assignor.)						
Norris, Fredesco S., assignor of one-fourth to M. Roos, Shreveport, La. Car-coupling	343,486	June 8	1060	264, 265	35	1206
Norris, George C. (See Felmlee, John H., assignor.)						
Norris, George E., Troy, assignor of one-half to J. K. P. Pine, Lansingburg, N. Y. Collar-folding machine	341,044	May 4	92	26, 27, 28, 29	35	522
Norris, George E., and W. E. Hagan, assignors to Citizens Match Company, Troy, N. Y.) Match-making machine	336,424	Feb. 16	1925	504, 505	34	797
Norris, George E., and W. E. Hagan, assignors to Citizens Match Company, Troy, N. Y.) Machine for making matches	352,997	Nov. 23	1758	471, 472	37	811
Norris, George E., and W. E. Hagan, assignors, by mesne assignments, to Citizens Match Company, Troy, N. Y. Machine for making matches	337,074	Mar. 2	253	67, 68	34	973
Norris, John W., Chicago, Ill., and T. M. Brintnall, Maryville, Mo. Burglar-proof safe	350,266	Oct. 5	226	66	37	47
Norris, Schuyler C., South Whitley, assignor of one-half to J. S. Miller, Warsaw, Ind. Vegetable-slicer	338,674	Mar. 23	2431	641	34	1384
Norris, Stephen L., Portsmouth, county of Hants, England. Car starter and brake	348,169	Aug. 24	2404	645	36	933
Norris, Thomas V., Rockford, Ill. Power-hammer	341,045	May 4	98	29	35	523
North, Aaron E., and W. K. Sheldon, West Rutland, Vt. Machine for cutting stone	336,256	Feb. 16	1694	441, 442	34	753
North & Company, O. B. (See Smith, Charles H., assignor.)						
North, George W., *et al.* (See Kyle, Edward E., assignor.)						
North, Jacob, Lincoln, Nebr. Machine for mending stereotype-plates. (Reissue)	10,710	Apr. 6	761	188	35	134
North, John, Middletown, Conn. Machine for making spikes	343,839	June 15	1538	389, 390	35	1300
North, Oliver B., New Haven, Conn. Heel-protector	354,340	Dec. 14	1024	272	37	1200
North, Selden G., assignor to Transit Apparatus Company, (limited.) Philadelphia, Pa. Store-service apparatus	342,628	May 25	2321	613	35	960
North Western Straw Fuel Company. (See Clutter and Mockenhaupt, assignors.)						
Northampton Emery Wheel Company. (See Otis, Philip A., assignor.)						
Northey, Thomas, Toronto, Ontario, Canada. Double-acting pump	345,253	July 6	626	159	36	113
Northrop, Homer F., assignor to Waterbury Clock Company, Waterbury, Conn. Striking-clock	337,784	Mar. 9	1205	313	34	1148
Northrup, James R., Rocky Brook, R. I. Side-spring vehicle	348,926	Sept. 7	528	139	36	1144
Northwestern Wire Mattress Company. (See Seymour, William S., assignor.)						
Norton, Dewitt C. (See Spence, Samuel B., assignor.)						
Norton, Edwin, *et al.* (See Norton and Hodgson, assignors.)						
Norton, Edwin, assignor to himself and O. W. Norton, Chicago, Ill. Can-counting machine	334,273	Jan. 12	1119	300	34	215
Norton, Edwin, assignor to himself and O. W. Norton, Chicago, Ill. Automatic can-delivering device	334,274	Jan. 12	1119	300	34	215
Norton, Edwin, assignor to himself and O. W. Norton, Chicago, Ill. Paint-can	338,767	Mar. 30	2583	681	34	1417
Norton, Edwin, assignor to himself and O. W. Norton, Chicago, Ill. Combined filling and pouring nozzle	354,571	Dec. 21	1342	356	37	1265
Norton, Edwin, assignor to himself and O. W. Norton, Chicago, Ill. Sheet-metal barrel	354,572	Dec. 21	1344	357	37	1265
Norton, Edwin, assignor to himself and O. W. Norton, Chicago, Ill. Manufacturing sheet-metal barrel-bodies	354,573	Dec. 21	1345	357	37	1265
Norton, Edwin, and J. G. Hodgson, assignors to said Edwin Norton and O. W. Norton, Chicago, Ill. Machine for soldering caps upon sheet-metal cans	340,148	Apr. 20	1497	379	35	280
Norton, Edwin, and J. G. Hodgson, assignors to said Edwin Norton and O. W. Norton, Chicago, Ill. Soldering-machine	345,254	July 6	628	160	36	114

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Norton, Edwin, and J. G. Hodgson, assignors to E. and O. W. Norton, Chicago, Ill. Sheet-metal-barrel machine	354,568	Dec. 21	1336	354	37	1263
Norton, Edwin, and J. G. Hodgson, assignors to E. and O. W. Norton, Chicago, Ill. Sheet-metal-barrel machine	354,569	Dec. 21	1338	355 356	37	1264
Norton, Edwin, and J. G. Hodgson, assignor to E. and O. W. Norton, Chicago, Ill. Machine for making sheet-metal barrels	354,570	Dec. 21	1340	356	37	1264
Norton, Fred. H., Gouverneur, N. Y., assignor to St. Lawrence Manufacturing Company. Land-roller	353,267	Nov. 23	2149	575	37	887
Norton, Issachar E., *et al.* (See Dewey, John J., assignor.)						
Norton, James W., and F. H. Rouse, assignors of one-third to J. C. Fuller, Kinzua, Pa. Process of and apparatus for distilling oil	336,941	Mar. 2	78	21	34	941
Norton, Le Grand M., E. Norton, and J. G. Hodgson, assignors to said E. and O. W. Norton, Chicago, Ill. Soldering-machine	354,731	Dec. 21	1578	417 418	37	1308
Norton, Oliver W. (See Norton, Edwin, assignor.)						
Norton, Oliver W. (See Norton and Hodgson, assignors.)						
Norton, Philo J., Bristol, N. Y. Car-coupling	342,262	May 18	1764	438	35	852
Norton, Sereno E., Chicago, Ill. Flour-sifter safe	352,343	Nov. 9	894	239	37	631
Norton, William. (See Piper, Francis M., assignor.)						
Norton, William T., assignor of one-half to W. M. Bates, New Bedford, Mass. Currycomb	336,490	Feb. 16	2011	527	34	812
Norwalk Lock Company. (See Libby, Benjamin F., assignor.)						
Norwood, Algenon S., West Point, Miss. Device for cutting and gumming saw-teeth	342,363	May 18	1765	468	35	852
Norwood, George, assignor of one-half to F. Miller, Bridgeport, Conn. Spring-bending machine	339,803	Apr. 13	1026	254	35	188
Norwood, George, assignor of one-half to F. Miller, Bridgeport, Conn. Spring-bending machine	339,804	Apr. 13	1028	255	33	188
Norwood, Joseph, Brooklyn, N. Y. Screen	347 730	Aug. 17	1773	473	36	808
Nott, Sampson H., Holland, N. Y. Dumping-wagon	335 614	Feb. 9	741	197	34	580
Nottingham, Lloyd, Norfolk, Va. Grain-register	337 859	Mar. 16	1312	340	34	1174
Nottingham, Lloyd, Norfolk, Va. Letter-file	346,061	July 20	1800	465	36	336
Nourse, James K. P., West Medway, Mass., assignor to W. Crabb, Newark, N. J. Clothes-pin	335,299	Feb. 2	298	79	34	494
Nourse, Lucius H., Woonsocket, R. I. Drawer-guide	353,640	Nov. 30	2714	725	37	996
Novelty Manufacturing Company. (See Putnam and Kirschbaum, assignors.)						
Nowell, Thomas S., *et al.* (See Huse, Warren D., assignor.)						
Nowell, Thomas S., Boston, Mass., assignor to Avery Lactate Company, Portsmouth, N. H. Tonic base for aerated beverages	346,824	Aug. 3	455	.....	36	549
Nowlin, Milton G. (See Barnett, John W., assignor.)						
Noxon, Samuel. (See Pettet and Noxon.)						
Noye, Richard K. (See Morgan, Charles H., assignor.)						
Noyes, Adelbert H., and E. S. Gardner, assignors to themselves and A. De Buell, Jefferson, Wis. Wagon end-gate	338,545	Mar. 23	2248	590	34	1353
Noyes, Adelbert H., Jefferson, and F. G. Noyes, White Water, Wis. Carpet stretcher and tacker	353,460	Nov. 30	2431	649	37	946
Noyes, Benjamin, Boston, Mass. Ruching for decorative purposes	336,149	Feb. 16	1524	401 402	34	725
Noyes, Charles W., Kalamazoo, Mich. Two-wheeled vehicle	343,526	June 8	1103	278	35	1214
Noyes, Charles W., Kalamazoo, Mich. Two-wheeled vehicle	344,851	July 6	74	19	36	14
Noyes & Co., Joseph P. (See Winans, Thomas J., assignor.)						
Noyes, Edward F., Hamilton, Ontario, Canada. Tool-holder	334,042	Jan. 12	757	208	34	149
Noyes, Edward P., Seville, Ohio. Planter and cultivator	336,014	Feb. 9	1304	346	34	6-0
Noyes, Frederick G. (See Noyes, Adelbert H. and F. G.)						
Noyes, Henry J., assignor of one-half to H. Hart and A. J. Brandenstein, San Francisco, Cal. Combined bridle blind and loop	344,456	June 29	2392	616	35	1470
Noyes, Horatio J., Ashtabula, Ohio. Machine for seaming sheet metal	337,427	Mar. 9	749	192	34	1069
Noyes, La Verne W., Chicago, Ill. Book-holder	335,085	Jan. 26	2217	589	34	430
Noyes, La Verne W., Chicago, Ill. Book-holder	349,660	Sept. 21	1524	393	36	1348
Noyes, La Verne W., assignor to W. Deering, Chicago, Ill. Grain-harvester	333,536	Jan. 5	54	16	34	13
Noyes, Sewell H., Newburyport, Mass. Necktie-fastener	350,942	Oct. 19	1180	314	37	229
Noyes, William H., Rochester, N. Y. Shaft-tug for harness	337,982	Mar. 16	1491	387	34	1206
Noyes, William H., Newburyport, Mass. Show-box for combs	340,056	Apr. 13	1369	343	35	250
Nuebling, Ernst H. and G. E., Reading, Pa. Tube cutter	341,046	May 4	100	30	35	523
Nuebling, George E. (See Nuebling, Ernst H. and G. E.)						
Nuebling, George E., Reading, Pa. Portable hand-punch	340,727	Apr. 27	2335	616	35	436
Nugent & Co., J. S. (See Meyer, Emil L., assignor.)						
Nugent, David E. (See Maines and Nugent.)						
Nugent, Richard C., Pittsburg, Pa. Pipe-nipple holder	341,428	May 4	632	173	35	619
Null, John C., assignor of one-half to C. F. Bryant, Dayton, Ohio. Anti-rattler for thill-couplings	336,150	Feb. 16	1526	402	34	725
Nulty, James T., Philadelphia, assignor of one-half to T. J. Crumbie, Chester, Pa. Spike	352,883	Nov. 16	1597	431	37	773
Numan, Isaac W., Canton, Ohio. Pump	334,605	Jan. 19	1572	420	34	305
Nunn, Emma G., Vassar, Mich. Adjustable handle for dusters	347,123	Aug. 10	893	237	36	637
Nusbaum, Levi H., Goshen, Ind. Spring-tug fastener	337,347	Mar. 2	621	163	34	1041
Nutt, Jasper N., assignor of one-half to G. W. Buckley, Sidney, Ohio. Churn	346,859	Aug. 3	508	139	36	559
Nuttall, Joshua, Pittsburg, Pa. Pipe-coupling	353,580	Nov. 30	2605	695	37	978
Nuttall, Joshua, assignor of one-half to J. Rhodes, Pittsburg, Pa. Pipe-coupling	342,305	May 18	1840	486	35	864
Nutting, Elijah G., Faribault, Minn. Bell-ringer	343,059	June 1	403	103	35	1079
Nutting, Samuel E., Chicago, Ill. Map-case	343,066	June 1	405	103	35	1080
Nutting, Samuel E., assignor of three-fourths to T. Charles, Chicago, Ill. Pencil-sharpener	354,801	Dec. 21	1683	444	37	1328
Nye, George H., Chicago, Ill. Manufacture of rubber decoy-ducks	349,315	Sept. 21	1049	269	36	1254
Nye, George H., Chicago, Ill. Hunting and fishing boat	349,316	Sept. 21	1050	269	36	1254
Nye, George H., Chicago, Ill. Rubber decoy-duck	351,709	Oct. 26	2322	604	37	445
Nye, Joseph K., Fairhaven, Mass. Bottling-machine	339,111	Mar. 30	3075	814	34	1503
Nye, Sherman R., Chicopee Falls, Mass. Horse-rake	352,884	Nov. 16	1597	431	37	773
Nye, William C. (See Lehmann and Nye.)						
Nye, William C., Bradford, Pa. Cover for pots, &c	342,379	May 25	1965	518	35	895
Nye, William C., Bradford, Pa. Pot-cover	342,706	May 25	2433	646	35	980
Nye, William E., assignor of one-half to J. W. Matthews, Monmouth, Ill. Cartridge-crimper	340,057	Apr. 13	1370	344	35	251
Nyrop, Johan E., Copenhagen, Denmark. Milking-machine	338,098	Mar. 16	1650	429	34	1236
Nysewander, David J., New Carlisle, Ohio. Valve-seat	338,709	Mar. 23	2334	611	34	1368
O'Boylan, Bernard M., Corning, Ohio. Candle-holder	338,099	Mar. 16	1651	429	34	1237
O'Brien, Daniel, Minneapolis, Minn. Bed-pan	346,309	July 27	2149	553	36	412

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
O'Brien, John, St. Louis, Mo. Flanging-machine	341,598	May 11	872	232 / 233	35	675
O'Brien, John, assignor to W. Brookfield, New York, N. Y. Telegraph-insulator	347,635	Aug. 17	1647	437	36	785
O'Brien, John, and S. J. Weaver, St. Louis, Mo. Feed-water heater	337,189	Mar. 2	412	107	34	1002
O'Brien, Joseph S., Wilbraham, Mass. Hoeing and weeding machine	354,925	Dec. 28	1856	491	37	1372
O'Brien, Junius D., assignor to M. C. O'Brien, Pembroke, Ky. Exercising-machine	345,856	July 20	1520	393	36	284
O'Brien, Martha C. (See O'Brien, Junius D., assignor.)						
O'Brien, Martin H., *et al.* (See Woodward, William D., assignor.)						
O'Brien, Michael H., St. Ignace, Mich. Combined twine holder and cutter	342,532	May 25	2184	578	35	933
O'Brien, Thomas, New York, N. Y. Tricycle	347,503	Aug. 17	1437	381 / 382	36	745
O'Brien, Thomas, and W. H. Schmedlen, Coldwater, Mich. Road-cart	341,498	May 11	730	196	35	648
O'Brien, Thomas J., Buffalo, N. Y. Street-receiver and stench-trap	343,335	June 8	929	208	35	1164
O'Connell, John, and F. E. Weeden, Providence, R. I. Apparatus for dyeing	334,889	Jan. 26	1945	517	34	381
O'Connell, Michael J. (See Wilson, George R., Jr., assignor.)						
O'Connell, Thomas, Brooklyn, N. Y. Gripper for cable railways	351,997	Nov. 2	392	107	37	531
O'Conner, James. (See Fairchild, John M., assignor.)						
O'Connor, Catharine, *et al.* (See Bradshaw, John A., assignor.)						
O'Connor, Dennis, New York, N. Y. Fire-proof attachment for wooden-beam ceilings	350,267	Oct. 5	227	67	37	47
O'Connor, James. (See Fairchild and O'Connor.)						
O'Connor, Jeremiah J. and J. A., Pawtucket, assignors of one-third to A. H. Allen, Providence, R. I. Machine for twisting thread, &c	354,926	Dec. 28	1857	491	37	1373
O'Connor, John A. (See O'Connor, Jeremiah J. and J. A.)						
O'Connor, Joseph. (See Steinberger, Louis, assignor.)						
O'Connor, Patrick A., Atlanta, Ga. Extension-bustle	343,723	June 15	1406	350	35	1274
O'Connor, Patrick J., San Francisco, Cal. Hose and pipe coupling	347,368	Aug. 17	1245	331	36	710
O'Connor, Patrick J., Seymour, Ind. Tack-driver and carpet-stretcher	348,337	Aug. 31	2646	714	36	986
O'Connor, William H., Dayton, Ohio. Carburetor	354,574	Dec. 21	1346	357	37	1265
O'Dell, Clark, W., and L. L., New Market, Iowa. Veterinary surgical instrument	348,044	Aug. 24	2223	595	36	899
O'Dell, Lester L. (See O'Dell, Clark, W., and L. L.)						
O'Dell, Warren. (See O'Dell, Clark, W., and L. L.)						
O'Donel, Irvin M., Allegheny, Pa. Leak-detector for gas	334,890	Jan. 26	1946	518	34	382
O'Donnell, James D., Washington, D. C., assignor to E., G., and J. H. Matthews, New York, N. Y. Tumbler-washer	349,052	Sept. 14	710	181	36	1181
O'Donnell, John, Chicago, Ill. Hose-nozzle	334,800	Jan. 26	1837	490	34	362
O'Donnell, John, Albany, N. Y. Street-bridge	354,652	Dec. 21	1471	390	37	1287
O'Donnell, John H., Winnepeg, Manitoba, Canada. Harness-hook	350,316	Oct. 5	288	82	37	58
O'Donovan, Cornelius M., Omaha, Nebr. Coal-distributing chute	352,344	Nov. 9	895	240	37	631
O'Flaherty, John. (See Shayler and Pearson, assignors.)						
O'Grady, William L. D., New York, N. Y. Vessel	352,709	Nov. 16	1375	372	37	730
O'Hara, Daniel, Waltham, Mass. Watch-case	353,706	Dec. 7	77	21	37	1020
O'Hara, Daniel, Waltham, Mass. Watch-case	353,961	Dec. 7	451	123	37	1089
O'Hara, Daniel O., Waltham, Mass. Watch-case	340,814	Apr. 27	2448	644	35	458
O'Hare, Daniel, assignor of one-half to F. R. Maddock, Newark, N. J. Brass musical instrument	340,813	Apr. 27	2447	644	35	458
O'Harra, George W. (See Hoedemaker and O'Harra.)						
O'Kane, William H. (See Smith, George, assignor.)						
O'Keefe, Bernard A. (See Schleicher, Joseph C., assignor.)						
O'Keefe, Thomas A., Brooklyn, N. Y. Check-file	337,983	Mar. 16	1492	387	34	1206
O'Keefe, Warner F. H., Allegheny, Pa. Apparatus for carbureting gas	346,940	Aug. 10	633	170	36	590
O'Keenan, Charles E., St. Cloud, near Paris, France. Primary galvanic battery	354,434	Dec. 14	1132	304	37	1221
O'Malley, William T., *et al.* (See Devers, William J., assignor.)						
O'Meara, Timothy. (See Fryer, Robert M., assignor.)						
O'Melveny, Curran B., Centralia, Ill. Safety device for medicine-cases	344,055	June 22	1839	472	35	1362
O'Neil, David W. (See Howard, Wilbur F., assignor.)						
O'Neil, James C., *et al.* (See Lister, John T., assignor.)						
O'Neil, Jeremiah F., assignor to A. E. Karelsen, New York, N. Y. Circular-knitting machine	349,448	Sept. 21	1253	324 / 325	36	1293
O'Neil, Michael S., Rock Island, Ill. Harrow	338,768	Mar. 30	2584	681	34	1417
O'Neil, Philip, Milwaukee, Wis. Lathe-rest	338,291	Mar. 23	1900	500	34	1292
O'Neil, Philip J., and J. W. Young, Leavenworth, Kans. Roller-mill	342,838	June 1	89	22, 23	35	1022
O'Neil, Richard. (See O'Neill and O'Neil.)						
O'Neill, Benjamin. (See Brinkman, Henry J., assignor.)						
O'Neill, Charles, and R. O'Neil, New York, N. Y. Painter's scraping device	343,389	June 8	922	230	35	1182
O'Neill, Henry G., assignor to Platinum Light Company, Cincinnati, Ohio. Gas-lamp	344,195	June 22	2039	521 / 522	35	1399
O'Neill, James F., assignor to Hendey Machine Company, Torrington, Conn. Chuck	346,310	July 27	2151	553	36	412
O'Neill, John, Hamilton, Ontario, Canada. Lock-fastening for bottom hoops of milk-cans	353,641	Nov. 30	2715	721	37	997
O'Neill, John, assignor to Burn & Robinson Manufacturing Company, (limited,) Hamilton, Ontario, Canada. Fastening for hoops	344,749	June 29	2789	722	35	1543
O'Neill, Philip H., Brooklyn, N. Y. Weighing-scales	347,056	Aug. 10	795	211	36	619
O'Reilly, Thomas H., Canandaigua, N. Y. Gate	333,884	Jan. 5	528	143	34	99
O'Riordan, Angelina, *et al.* (See O'Riordan, James, assignor.)						
O'Riordan, Columbia, *et al.* (See O'Riordan, James, assignor.)						
O'Riordan, Daniel, *et al.* (See O'Riordan, James, assignor.)						
O'Riordan, Ellen, *et al.* (See O'Riordan, James, assignor.)						
O'Riordan, Eugene, *et al.* (See O'Riordan, James, assignor.)						
O'Riordan, James, Ulster, assignor to L. R. Ford, P. Casey, W. Ryan, M. Larkin, Jr., E. O'Riordan, J. Cummings, W. Lawton, Kingston, J., Sr., E., D., J., Jr., A., C., and J. O'Riordan, Ulster, N. Y. Car-coupling	335,381	Feb. 2	413	106	34	516
O'Riordan, John, *et al.* (See O'Riordan, James, assignor.)						
O'Roark, Lorenza D., Louisa, Ky. Stirrup	334,976	Jan. 26	2060	549	34	402
O'Rourke, Daniel, Selma, Ala. Car-coupling	336,736	Feb. 23	2354	616	34	850
O'Rourke, Michael, Philadelphia, Pa. Street-pavement	340,893	Apr. 27	2551	672	35	475
O'Sullivan, Dennis J., Detroit, Mich. Display and retail device for fancy papers	354,208	Dec. 14	826	219	37	1165
Oakes, Roland T., *et al.* (See Benham, Elijah B., assignor.)						
Oakley, Sylvester. (See Grout and Oakley.)						
Oakman, Richard N., Jr., *et al.* (See Rowland, Alexander M., assignor.)						
Oaks, William A. C., assignor to Goodell Company, Antrim, N. H. Apple parer, corer, and slicer	340,675	Apr. 27	2555	594	35	422
Oaks, William A. C., assignor to Goodell Company, Antrim, N. H. Machine for paring and stoning peaches	348,532	Aug. 31	2929	787	36	1039
Oaks, William A. C., assignor to Goodell Company, Antrim, N. H. Knife-head for apple-paring machines	352,774	Nov. 16	1448	390	37	745

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Oatman, Edward J., Dundee, Ill., assignor to Burwell & Whitman, Little Falls, N. Y. Manufacture of artificially-enriched cheese from milk	346,062	July 20	1801	.....	36	336
Obenchain, Bruce, Springfield, Ohio. Beam pumping-engine	335,475	Feb. 2	533	140	34	537
Obenchain, John T., Logansport, Ind. Roller-mill	334,460	Jan. 19	1373	371, 372	34	269
Obenchain, Washington. (See Russell and Obenchain.)						
Ober, Frank H., assignor to A. Wright, Denver, Colo. Well-reamer	344,326	June 22	2215	570	35	1431
Ober, Philip G. (See Breed and Ober.)						
Oberlander Lorenz, assignor of three-fourths to J. C. Kenyon, Baldwinsville, G. L. Brown and R. J. Getz, Buffalo, N. Y. Car-coupling	351,123	Oct. 19	1463	383	37	280
Obermaier, Julius O., Lambrecht, Bavaria, Germany. Apparatus for dyeing	335,712	Feb. 9	882	232	34	604
Obermann, August W., Chicago, Ill. Cooking-vessel	334,450	Jan. 19	1371	371	34	269
Obermann, August W., Pittsburg, Pa. Cooking vessel	349,317	Sept. 21	1051	269	36	1255
Obermeyer, Alexander, Barmen-Rittershausen, Germany. Grater	344,005	June 22	1760	453	35	1349
Oberndorfer, Abraham, Norfolk, Va. Sash-cord fastener	333,775	Jan. 5	381	104	34	72
Ockershausen, John H., Greenwich, Conn. Liquid-strainer for purifying sugar, &c	336,425	Feb. 16	1026	505	34	797
Odell, Albert P., Bradford, Pa. Roller for skates	336,491	Feb. 16	2013	597	34	812
Odell, George E. (See Collins and Odell.)						
Odell, John B., Chicago, Ill. Mold	333,661	Jan. 5	213	58	34	41
Odell, Udolpho H., Dayton, Ohio. Roller-mill	339,927	Apr. 13	1190	296, 297	35	219
Odell, Udolpho H., Dayton, Ohio. Middlings-purifier	350,385	Oct. 5	374	108	37	75
Odin, Frank A., Syracuse, N. Y. Hand-truck	340,955	Apr. 27	2631	693	35	490
Oechsli, Franz. (See Hake and Oechsli.)						
Oefinger, John L., North Adams, Mass. Machine for cutting keyways	340,348	Apr. 20	1802	462	35	336
Oetzel, John G., Brooklyn, N. Y. Dovetailing-machine	335,833	Feb. 9	1051	277, 278	34	636
Offenhauser, Frederick, Sr., *et al.*, trustees. (See Kneedler, Lewis, assignor.)						
Offutt, Joseph E. (See Thomas and Offutt.)						
Ogborn, Harrison, Richmond, Ind. Fence-weaving machine	352,904	Nov. 16	1627	437	37	779
Ogden, George H., Cleveland, Ohio. Machine for attaching covers to pamphlets	337,608	Mar. 9	989	253, 254	34	1111
Ogden, John R., Palmer Falls, N. Y., assignor to Eastwood Wire Manufacturing Company, Belleville, N. J. Dandy-roll	352,484	Nov. 9	1063	286	37	665
Ogden, Russell R., Bradford, Pa. Water-wheel	335,713	Feb. 9	882	233	34	605
Ogelsby, George A., Harrisburg, Pa. Hydrant	353,581	Nov. 30	2606	695	37	978
Ogle, Francis M. (See Crist and Ogle.)						
Ogletree, James A., Randal, Ark. Fertilizer-distributer	352,563	Nov. 16	1165	314	37	691
Ohl, Adolph, *et al.* (See McCarty, William F. M., assignor.)						
Ohl, Adolph, *et al.* (See McCarty, William F. C. M., assignor.) (Reissue.)						
Ohl, George A. (See Kittredge and Ohl.)						
Ohl, George A., Newark, N. J. Metal-bending machine	338,100	Mar. 16	1652	429, 430	34	1237
Ohlen, James. (See Krieger, Andrew, assignor.)						
Ohlsen, August. (See Ohlsen, Hans C., assignor.)						
Ohlsen, August, *et al.* (See Ohlsen, Heinrich C., Sr., assignor.)						
Ohlsen, Hans C., Covington, Ky., assignor of one-half to A. Ohlsen, Cincinnati, Ohio. Vehicle-coupling	338,546	Mar. 23	2249	590, 591	34	1353
Ohlsen, Heinrich C., Sr., assignor to H., Jr., and A. Ohlsen, Cincinnati, Ohio. Delivery-wagon	333,776	Jan. 5	382	104, 105	34	72
Ohlsen, Henry, Jr., *et al.* (See Ohlsen, Heinrich C., Sr., assignor.)						
Ohlweiler, Jacob, assignor of one-half to E. Struppe, Milwaukee, Wis. Weighing apparatus for beer	341,270	May 4	417	114	35	582
Ohlweiler, Jacob, and E. Struppe, Milwaukee, Wis. Weighing apparatus for beer	341,269	May 4	416	114	35	581
Ohlwine, David F., and J. H. Alexander, Kendallville, Ind. Oil-can holder	346,494	Aug. 3	58	14	36	471
Ohmart, Charles H., West Milton, Ohio. Fence-machine	351,998	Nov. 2	394	107	37	532
Olcott, Brainerd T., Keene, N. H. Shield for the knees of trousers	341,599	May 11	873	233	35	676
Olcott, Marvin, *et al.* (See De Silva, Dwight M., assignor.)						
Oldaker, George G., London, Ontario, Canada. Smoothing-iron	351,935	Nov. 2	304	84, 85	37	513
Oldberg, Susanne, Washington, D. C. Rubber boot	352,836	Nov. 16	1532	412	37	759
Oldfather, John F., and B. F. Grandstaff, assignors to J. G. and B. F. Grandstaff, Bunker Hill, Ind. Gate	339,928	Apr. 13	1192	297	35	219
Oldfield, Benjamin H. (See Cassidy and Oldfield.)						
Oldham, George, and W. Dixon, Philadelphia, Pa. Loom for cross-weaving	352,258	Nov. 9	781	209	37	609
Olds, Alonzo F., New York, N. Y., assignor of one-half to C. H. Phelps, Fairfield, Conn. Gas-regulator	340,454	Apr. 20	1933	497	35	360
Olds, Charles W. (See Olds, Henry H. and C. W.)						
Olds, Henry H. and C. W., Martinsville, Ind. Book-case	345,986	July 20	1699	438	36	318
Olewine, William, Hazelton, Pa. Harness	353,879	Dec. 7	325	85	37	1066
Olin, William F., Chicago, Ill. Grain-harvester	342,969	June 1	273	71	35	1056
Olin, William F., and F. J. Coddington; said Olin assignor to W. Deering & Company, Chicago, Ill. Wheel	344,852	July 6	75	19	36	14
Olinger, David J., Anson, Tex. Gate-hinge	353,962	Dec. 7	453	123	37	1089
Oliphant, William, Jersey City, N. J. Apparatus for promoting combustion	341,680	May 11	993	263	35	700
Oliver, A. Atwood, Brooklyn, assignor of one-fourth to A. F. Scott, New York, N. Y. Composition of matter for roofing, furniture, &c	334,974	Jan. 26	2058	.....	34	402
Oliver Brothers & Phillips. (See Rosensteel, William W., assignor.)						
Oliver, David B., Allegheny City, Pa. Making plates	348,990	Sept. 14	615	162	36	1166
Oliver, Francisco J., Brooklyn, N. Y. Barrel-head	337,984	Mar. 16	1493	387	34	1207
Oliver, Frederick. (See Tompkins and Oliver.)						
Oliver, George T. (See Lantz, John A., assignor.)						
Oliver, George T., *et al.* (See Stubbe, John, assignor.)						
Oliver, Henry J., assignor of one-half to J. Pracy, San Francisco, Cal. Steam-pump	350,763	Oct. 12	932	251	37	177
Oliver, Henry M., Newark, N. J. Whiffletree-hook	347,954	Aug. 24	2112	563	36	878
Oliver, Henry M., assignor of one-half to T. Oliver, Newark, N. J. Horseshoe	335,476	Feb. 2	536	140	34	537
Oliver, Henry W., Jr., *et al.* (See Murdock, William M., assignor.)						
Oliver, James C., and J. M. Hunter, Louisville, Ky. Vehicle-spring	353,324	Nov. 30	2231	598	37	908
Oliver, Reuben W., Lockport, assignor of three-fourths to L. S. Beckwith and G. A. Holmes, Albion, N. Y. Hedge and wire fence	346,123	July 27	1877	485	36	360
Oliver, Richard S., Russellville, Ala. Combined cotton-chopper and cultivator	349,403	Sept. 21	1190	308	36	1281
Oliver, Thomas. (See Oliver, Henry M., assignor.)						
Oliver, William W. (See Svensson, Claes A., assignor.)						
Oliver, William Y., Franklin County, Ark. Combination-plow	338,289	Mar. 23	1897	499	34	1291
Ollis, Thomas B., Philadelphia, Pa. Trimming-frame	343,191	June 8	607	151	35	1126

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Olmstead, Chauncey L., West Brookfield, Mass., and A. D. Nason, New York, N. Y. Corset	338,184	Mar. 16	1763	460	34	1259
Olmsted, Leverett H., Corona, N. J. Miter-box	339,455	Apr. 6	491	120	35	91
Olmsted, Leverett H., Corona, N. J. Mole-trap	346,218	July 27	2020	521	36	387
Olsen, Jens. (See Gooch and Olsen.)						
Olsen, Olaf R., Indianapolis, Ind., assignor to American Screw Company, Providence, R. I. Machine for fastening barbs on wire	338,290	Mar. 23	1898	499 / 500	34	1292
Olsen, Ulrik, Boston, Mass. Skate-fastening	334,975	Jan 26	2059	549	34	402
Olson, Bernard G., Chicago, Ill. Medicine-bottle	342,837	June 1	88	22	35	1022
Olson, Frank A., Galesburg, Ill. Combined pitchfork and hand-rake	346,677	Aug. 3	286	78	36	517
Olson, Gustav A., Albert Lea, Minn. Tufting attachment for knitting-machines	342,126	May 18	1589	424 / 425	35	820
Olson, Holcom, and J. Hogland, Kansas City, Mo. Cornstalk-cutter	335 949	Feb. 9	1218	324	34	666
Olson, Samuel, Cyrus, Minn. Combined hay rake and cocker	335,834	Feb. 9	1053	278 / 279	34	637
Olsson, Per P., Trelleborg, Sweden. Counting apparatus and pattern-card for knitting-machines	350,013	Sept. 28	2030	524	36	1449
Olszewski, Alexander v. (See Everding and Olszewski.)						
Onderdonk, John P., Philadelphia, Pa. Manufacture of paper bags	333,537	Jan. 5	56	16	34	13
Onderdonk, John P., Philadelphia, Pa. Paper-bag machine	333,538	Jan. 5	57	16	34	13
Onderdonk, John P., Philadelphia, Pa. Satchel or hand-bag	340,001	Apr. 13	1294	324	35	237
Onderdonk, Robert, New York, N. Y. Lemon-squeezer	354,022	Dec. 7	541	147	37	1105
Oneida Community. (See Maultby, William E., assignor.)						
Ongley, Charles E., Worcester, Mass. Caster-holder for furniture	342,970	June 1	275	71	35	1056
Ongley, Charles E., Worcester, Mass. Tag-holder	342,971	June 1	276	71	35	1056
Opheim, Engebret K., La Crosse, Wis. Car-coupling	354,575	Dec. 21	1318	357	37	1266
Opp, Jacob E., Jersey City, N. J. Vegetable-chopper	343,840	June 15	1544	391	35	1301
Oppmann, Andrew W., and J. Smith; said Smith assignor to Bosworth & Schmidt, Cleveland, Ohio. Branding apparatus	336,343	Feb. 16	1814	476	34	776
Oppy, William, Westerly, R. I. Bush-hammer	338,865	Mar. 30	2712	713	34	1441
Optenberg, John H., Oshkosh, Wis. Spark-arrester	352,063	Nov. 2	482	130 / 131	37	550
Orahood, George W., Yeddo, Ind. Shears	342,360	May 25	1966	519	35	895
Orchard, Henry, assignor of one-half to A. V. Venell, Peoria, Ill. Hay-drag	343 601	June 15	1217	306	35	1242
Ordonez y Ponce, Antonio, Brooklyn, N. Y. Tank	353,156	Nov. 23	2000	536	37	858
Ordonnean, Charles, Cognac, Charente, France. Making alcohol	347,731	Aug. 17	1773	.....	36	808
Ordway, Albert H., Melrose, Mass. Stool and seat	344,675	June 29	2689	698	35	1527
Ordway, George F. (See Ordway, John M. and G. F.)						
Ordway, John M. and G. F., Boston, Mass. Non-conducting covering for cylinders of ice-machines, pipes, &c	346,767	Aug. 3	390	107	36	537
Oren, William H. (See Baker and Oren.)						
Orme, Linnæus G., Paducah, Ky. Log-roller	354,171	Dec. 14	770	206	37	1154
Ormerod, Edward, Brooklyn, N. Y. Mold for making artificial stone, tiles, &c	341,161	May 4	261	75	35	552
Ormerod, John. (See Matthews, Dyson, and Ormerod.)						
Ormerod, Thomas, and A. B. Croskey, Leadville, Colo. Snow-plow	337,075	Mar. 2	256	68	34	973
Ormsbee, John M., *et al.* (See Drodzewski, Julius R., assignor.)						
Ormsby, Alexander, Buffalo, N. Y. Hot-air furnace	349,736	Sept. 28	1655	427	36	1378
Ormsby, Elisha S., Brooklyn, N. Y. Nipper-head for spinning-machines	342,032	May 18	1452	389	35	794
Orne, William P., Boston, Mass. Shoe-string fastening	352,064	Nov. 2	484	131	37	550
Orphy, John W., Rochester, N. Y. Making side tubes for lanterns	335,234	Feb. 2	215	55, 56	34	478
Orphy, John W., Rochester, N. Y. Tube for lanterns	335,235	Feb. 2	216	56	34	478
Orput, James M., assignor of one-half to M. Quincer, Malta, Ill. Road-scraper	352,345	Nov. 9	896	240	37	631
Orr, Jesse, assignor to Orr, Painter & Co., Reading, Pa. Stove	354,927	Dec. 28	1859	491 / 492	37	1373
Orr, Painter & Co. (See Orr, Jesse, assignor.)						
Orrick, Nicholas C., Canton, Miss. Harrow or cultivator	352,998	Nov. 23	1760	472 / 473	37	811
Orth, Charles G. (See Bruggemann and Orth.)						
Ortman, Barnim F., assignor to G. Urban, Jr., Buffalo, N. Y. Bread-pan	345,316	July 13	719	181 / 182	36	135
Ortmayer, Andrew, Chicago, Ill. Harness-saddle	335,142	Feb. 2	60	16, 17	34	451
Ortmayer, Andrew, Chicago, Ill. Horse-collar pad	335,143	Feb. 2	62	17	34	451
Orton, Lyman O., Philadelphia, Pa. Machine for rolling saws	338,434	Mar. 23	2110	552	34	1328
Orton, Lyman O., Philadelphia, Pa. Machine for sharpening saws	339,576	Apr. 6	710	174	35	124
Orton, Lyman O., Philadelphia, Pa. Saw-mill	346,383	July 27	2251	576	36	430
Osborn, Cyrus V., Dayton, Ohio. Overalls	354,928	Dec. 28	1860	492	37	1373
Osborn, George R., New York, N. Y. Bannerette	338,356	Mar. 23	1995	525 / 526	34	1308
Osborn, George R., and A. F. Gregory, New York, N. Y. Easel	338,355	Mar. 23	1994	525	34	1308
Osborn, Henry E., Meriden, Conn., and J. U. Fritchey, Lancaster, Pa. Sirup-pitcher	338,435	Mar. 23	2111	552	34	1328
Osborn, Isaiah H., Wilmington, Ohio. Buckle	347,955	Aug. 24	2113	563	36	878
Osborn, James, *et al.* (See Andrews, William P., assignor.)						
Osborn, James M., Fall River, Mass. Weather-strip	339,009	Mar. 30	2930	776	34	1479
Osborn, Murlin C., *et al.* (See Imler, Joseph, assignor.)						
Osborn & Peck. (See Palmer, John W., assignor.)						
Osborne & Company, D. M. (See Butterfield, William, assignor.						
Osborne & Co., D. M. (See Miller, Andrew C., assignor.)						
Osborne, David M., Auburn, N. Y. Grain harvesting and binding machine	335,950	Feb. 9	1219	324 / 325	34	666
Osborne, John H., Philadelphia, Pa. Knitting-machine	349,808	Sept. 28	1757	454	36	1396
Osborne, John W., Washington, D. C. Damping lithographic-printing surfaces	338,769	Mar. 30	2585	681 / 682	34	1417
Osborne, Jonas B., Daggett, Cal. Self-propelling wagon-train	352,346	Nov. 9	898	240	37	631
Osborne, Theodore B., Plainfield, N. J. Knife cleaning and scouring apparatus	350,838	Oct. 12	1048	281	37	198
Osborne, Theodore B., Plainfield, N. J., assignor to A. Osterhoudt, Brooklyn, N. Y., R. J. Armour, Orange, N. J., and L. D. Huntington, New York, N. Y. Switch-lamp	335,951	Feb. 9	1221	325	34	666
Osgood, Albert D., Plymouth, Nebr. Corn-harvester attachment for wagons	350,443	Oct. 5	466	131 / 132	37	90
Osgood, Edwin P., Malden, Mass. Stop for store-service apparatus	354,805	Dec. 21	1684	445	37	1328
Osgood, Isaac, Chicago, Ill. School desk and seat	338,645	Mar. 23	2386	628 / 629	34	1376
Osgood, Isaac, Chicago, Ill. Refrigerator	343,336	June 8	830	208 / 209	35	1164
Osgood, Isaac, Chicago, Ill. School-desk	346,860	Aug. 3	509	140	36	559
Osgood, J. Lester, assignor to Saxton & Osgood, Buffalo, N. Y. Bit-brace	344,130	June 22	1947	497	35	1382

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Pages.
Osgood, J. Lester, assignor to W. F. Wendt, Buffalo, N. Y. Metal-shears	346,170	July 27	1950	503	36	374
Osgood, Ralph R., Albany, N. Y. Excavator	342,454	May 25	2068	545	35	913
Osman, Aquilla G., Bucyrus, Ohio. Picking up and carrying bricks	336,737	Feb. 23	2356	616	34	880
Osman, Aquilla G., Bucyrus, Ohio. Implement for edging or turning bricks	336,820	Feb. 23	2366	647	34	901
Osmer, William H., St. Louis, Mo. Horse collar pad	335,382	Feb. 2	414	107	34	516
Osswald, Geremias, Chicago, Ill. Zither	351,710	Oct. 26	2322	604	37	445
Ostberg, Petter. (See Backlund, Johan F., assignor.)						
Osterbind, Henry C., Richmond, Va. Machine for rolling horseshoe-blank bars	349,950	Sept. 28	1942	502	36	1434
Osterhoudt, Alfred, *et al.* (See Osborne, Theodore B., assignor.)						
Osterloh, Adolph, San Francisco, Cal. Automatic weight-motor	337,428	Mar. 9	751	192	34	1069
Ostermeyer, Ludwig. (See Petersen, Thorvald N., assignor.)						
Osterwalder, Conrad, Biel, Switzerland. Mixing and kneading machine	346,413	July 27	2297	591, 592	36	439
Ostrander, James S., Richmond, Ind. Fountain-lamp	336,015	Feb. 9	1305	347	34	680
Ostrom, Freeland W., Bridgeport, Conn. Stop-motion mechanism	352,775	Nov. 16	1449	391	37	745
Oswalt, Samuel. (See Braidwood and Oswalt.)						
Oswell, William, Boston, Mass. Show-window shelving	349,117	Sept. 14	803	204	36	1198
Otis Brothers & Co. (See Smith, Rudolph C., assignor.)						
Otis, Daniel C., New York, N. Y. Turn-up bed	347,009	Aug. 10	724	192	36	607
Otis, Daniel C., New York, N. Y. Furniture-caster	350,636	Oct. 12	763	209	37	146
Otis, Norton P., Yonkers, N. Y. Hydraulic elevator	354,070	Dec. 7	606	166, 167	37	1117
Otis, Philip A., assignor to Northampton Emery Wheel Company, Leeds, Mass. Grinding machinery	344,919	July 6	173	44	36	32
Otstot, John D., Springfield, Ohio. Wrench	334,085	Jan. 12	821	225	34	161
Ott, Benedict, La Crosse, Wis. Bark-shaving machine	335,532	Feb. 2	616	161	34	550
Ott, Benedict, La Crosse, Wis. Bark-shaving machine	335,533	Feb. 2	618	162	34	550
Ott, Benedict, La Crosse, Wis. Bark-mill	340,922	Apr. 27	2587	682	35	482
Ott, Charles G. (See Reisman and Ott.)						
Ott, Frederick, Philadelphia, Pa. Gigging-machine	344,981	July 6	259	65	36	46
Ott, George F., Philadelphia, Pa. Pressure-regulator	336,584	Feb. 23	2140	561	34	841
Ott, Thomas, *et al.* (See Belisle, Robert S., assignor.)						
Ott, William H., and E. R. McKinzy, Boston Station, Ind. Car-coupling	342,381	May 25	1967	519	35	895
Ottawa Glass Company. (See Zellers, Theodor A., assignor.)						
Ottenheimer, Albert Stuttgart, Germany, assignor to Ottenheimer Brothers, New York, N. Y. Corset	354,871	Dec. 21	1777	468	37	1346
Ottenheimer Brothers. (See Ottenheimer, Albert, assignor.)						
Otterson, John H. (See Otterson, Thomas G. and J. H.)						
Otterson, Thomas G., Woodbury, N. J. Glass-press	353,461	Nov. 30	2433	649	37	946
Otterson, Thomas G. and J. H., Woodbury, N. J. Fruit-jar	338,185	Mar. 16	1764	460	34	1259
Otterson, Thomas G., and C. C. Voorhies, Woodbury, N. J. Glass-can cap. (Reissue)	10,741	June 29	2867	741	35	1560
Ottiwell, John D., New York, N. Y. Metallic ceiling	343,775	June 15	1468	368	35	1286
Otto, Carl, Greifenhagen, Prussia, Germany. Working furnaces by compressed air	352,423	Nov. 9	990	267	37	651
Otto, Edward C. F., Peckham, county of Surrey, England. Velocipede-wheel. (Reissue).	10,760	Aug. 24	2434	650	36	938
Otto, Edward C. F., Peckham, county of Surrey, England. Velocipede	352,885	Nov. 16	1598	431	37	773
Otto, Gustav, Jersey City, N. J. Pocket-battery	338,770	Mar. 30	2589	682	34	1418
Otto, Henry, Bloomington, Ill. Boring-bar	341,766	May 11	1099	292	35	720
Otto, Henry, Bloomington, Ill. Truck-brass chuck	341,767	May 11	1100	292	35	720
Otto, Henry A., A. Mertes, and J. A. Mitsch, Allegheny City, Pa. Pipe-hanger	341,765	May 11	1098	291	35	720
Otto, Nicolaus A., assignor to Gasmotoren Fabrik Deutz, Deutz-on-the-Rhine, Germany. Slide and passage for gas-motor engines	335,038	Jan. 26	2150	572, 573	34	418
Otto, Nicholaus A., Cologne-on-the-Rhine, assignor to Gas-Motoren-Fabrik-Deutz, Deutz-on-the-Rhine, Germany. Gas-motor engine	350,077	Sept. 28	2115	547, 548	36	1466
Otto, William A., Cedar Rapids, Iowa. Combined table leg and hanger	344,399	June 29	2322	598	35	1458
Otto, William A., and W. O. Zimmerman; said Zimmerman assignor to B. A. Metcalf, Cedar Rapids, Iowa. Sewing-machine brake	354,516	Dec. 14	1257	336	37	1242
Oudin, Charles P., New York, N. Y. Friction-hinge	347,124	Aug. 10	894	237	36	637
Ounzst, Webb M., Harlan, Iowa. Movable artificial border for flower-beds, garden-paths, &c	352,146	Nov. 9	625	165	37	581
Ourdan, Vincent L., Washington, D. C. Instrument for engraving compass-faces	344,676	June 29	2690	698	35	1527
Ourdan, Vincent L., assignor of one-half to G. L. Dyer and J. H. Fillmore, Washington, D. C. Proportional divider	342,455	May 25	2070	545	35	914
Outcalt, Jesse P., assignor to Eagle Machine Company, Lancaster, Ohio. Feed-cutter	349,661	Sept. 21	1526	394	36	1349
Ovenu, Moses, and W. Freinkelstein, Chicago, Ill. Head-covering	335,300	Feb. 2	299	79	34	495
Overell, Joseph M., Evansville, Ind. Transom-lifter	335,086	Jan. 26	2220	589	34	430
Overhiser, George C., Ionia, Mich. Hair-pin	348,138	Aug. 24	2355	632	36	924
Overing, William A., and A. B. Livingston, Sand Spring, Iowa. Hay loader	344,789	June 29	2813	736	35	1554
Overlack, Bernard, Palatka, Fla. Water-proof composition for roofing, &c	354,611	Dec. 21	1415	.....	37	1277
Overman, Albert H., Chicopee, Mass. Velocipede-saddle	343,841	June 15	1545	391	35	1301
Overman, John W., Fort Fetterman, Wyo. Ter. Washing-machine	336,059	Feb. 9	1370	362	34	692
Overman Wheel Company. (See Fisher, Alvin L., assignor.)						
Overman Wheel Company. (See Hadley, Charles F., assignor.)						
Overpeck, John M. (See Cussins and Overpeck.)						
Overpeck, John M., O. D. Shank, and L. A. Cussins, New Paris, Ohio. Tension apparatus for fence-wire	348,610	Mar. 23	2336	611	34	1368
Overton, Harmon D., Missouri Valley, Iowa. Thill-coupling	333,969	Jan. 5	644	177	34	121
Oviatt, Frank M., Birmingham, Conn. Paper box	340,058	Apr. 13	1371	344	35	251
Owen, Clinton. (See Scoville and Owen.)						
Owen, Demus J., Lynn, Pa. Spring-hanger	351,396	Oct. 26	1874	488	37	360
Owen, Ernst D., and H. Lichtenberger, New Harmony, Ind. Roofing-retainer	352,424	Nov. 9	993	267	37	651
Owen, Frederick D., Washington, D. C. Game-card	347,192	Aug. 10	992	265	36	656
Owen, James G., Covello, Wash. Ter. Harrow	353,079	Nov. 23	1880	507	37	833
Owen, R. Pitt, *et al.* (See Taylor, Fitch, assignor.)						
Owen, Rodney S., South Stuckely, Quebec, Canada. Ventilator and heater	352,097	Nov. 2	533	142	37	550
Owen, Thomas G., assignor to A. H. Parker, Chicago, Ill. Truss	346,170	July 6	514	131	36	93
Owen, Walter W., assignor to Columbus Watch Company, Columbus, Ohio. Watch-regulator	336,060	Feb. 9	1370	362	34	692
Owens, Bernard, Kansas City, Mo. Striker attachment for paper-ruling machines	346,064	July 20	1802	465	36	336
Owens, James, assignor of one-half to S. Durr, Russellville, Ind. Cutting attachment for plows	345,916	July 20	1604	413	36	301
Owens, John W., Diana Mills, assignor of one-half to A. Rooney, Richmond, Va. Car-brake	340,149	Apr. 20	1502	379	35	281
Owens, Joseph P. (See Hayner and Owens.)						
Owens, Mary J. (See Owens, Peter J., assignor.)						
Owens, Peter J., assignor to M. J. Owens, New York, N. Y. Mechanical toy for children	340,728	Apr. 27	2336	616	35	437
Owings, John H., Deer Lodge City, Mont. Ter. Bitters	350,988	Oct. 19	1285	.....	37	248

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr g.	Official Gazette. Vol.	Official Gazette. Page.
Owings, Orlando T., Le Mars, Iowa. Spark-arrester	352,485	Nov. 9	1063	286	37	665
Owner, Joseph S., Hagerstown, Md. Rubber boot or shoe	337,190	Mar. 2	413	107 108	34	1002
Ozenberger, Joseph, assignor of one-half to R. H. Sanders, Middletown, Cal. Flour-chest	350,600	Oct. 12	704	192	37	135
Paccaud, Emile. (See Borel and Paccaud.)						
Pace, Joseph T., Carlyle, and W. G. Read, Huey, Ill. Crib attachment for beds	346,495	Aug. 3	59	15	36	471
Packard, Beniah. (See Stewart, Frank L., assignor.)						
Packard, Ezra S., Hammonton, N. J. Brooder	351,883	Nov. 2	220	62	37	499
Packard, Justin E., Mendocino, Cal. Vehicle-brake	341,936	May 18	1330	355	35	772
Packard, Morrill N., Baltimore, Md. Balanced slide-valve	342,033	May 18	1454	389	35	794
Packer, George W., Rock Falls, Ill. Hoop-driver	347,369	Aug. 17	1246	332	36	710
Packer, George W., Rock Falls, Ill. Barrel-making machine	347,370	Aug. 17	1248	332	36	711
Packer, George W., Rock Falls, Ill. Stave-jointing machine	347,371	Aug. 17	1250	332	36	711
Packer, George W., Rock Falls, Ill. Barrel-making machine	347,372	Aug. 17	1252	332	36	711
Packer, John F., assignor to D. Bradley Manufacturing Company, Chicago, Ill. Seed-dropper	345,917	July 20	1604	413 414	36	301
Packer, John F., assignor to D. Bradley Manufacturing Company, Chicago, Ill. Plow	353,495	Nov. 30	2480	662	37	954
Packer, John F., assignor to D. Bradley Manufacturing Company, Chicago, Ill. Cultivator	353,496	Nov. 30	2481	662 663	37	955
Packer, John F., assignor to D. Bradley Manufacturing Company, Chicago, Ill. Wheel-plow	353,497	Nov. 30	2484	663 664	37	955
Packham, Frank R., Mechanicsburg, Ohio. Crimping-machine	349,355	Sept. 21	1112	287	36	1266
Packwood, George H., Tampa, Fla. Slop-pail, commode, and nursery-chair	343,192	June 8	608	151	35	1126
Paddleford, John F. (See Baltimore and Paddleford.)						
Page, Ames W. (See Bullard, James H., assignor.)						
Page, Bennett, Evergreen, Ala. Floor-clamp	337,191	Mar. 2	414	108	34	1002
Page, Clark D., Rochester, N. Y. Limekiln	342,629	May 25	2323	613	35	960
Page, Clark D., Rochester, N. Y. Kiln for drying brick	350,317	Oct. 5	289	82, 83	37	58
Page, J. Seaver. (See De Solomé, George F., assignor.)						
Page, Lafayette, *et al.* (See Elliott, Page, and Lewis.)						
Page, Ransom C., and F. H. Soden, Chicago, Ill. Valve	338,771	Mar. 30	2590	682	34	1418
Page, Thomas H., Watertown, Mass. Cleansing-machine	334,132	Jan. 12	887	243	34	173
Page, William H., Preston, Conn. Steam-generator	342,875	June 1	141	34, 35	35	1031
Pagel, Marx. (See Green, Edel, and Pagel.)						
Paget, Joseph T., assignor to Peet Valve Company, Boston, Mass. Straight-way valve	334,184	Jan. 12	966	262	34	186
Paige Car Wheel Company. (See Kells, Ross, assignor.)						
Paige, David O., Detroit, Mich. Safe	350,764	Oct. 12	933	251 252	37	177
Paige, James H., Salida, Colo. Device for opening envelopes	337,985	Mar. 16	1494	388	34	1207
Paige Manufacturing Company. (See Crane, George W., assignor.)						
Paillard & Co., M. J. (See Sueur, Alfred, assignor.)						
Paillot, Elvire S., and L. Charbonnier, Compiègne, France. Teaching sewing	337,609	Mar. 9	992	254	34	1111
Pain, Robert W., assignor, by mense assignments, to Mechanical Orguinette Company, New York, N. Y. Mechanical musical instrument	335,534	Feb. 2	619	162	34	550
Paine, D. L., *et al.* (See Matson, Wilmarth P. and J. C., assignors.)						
Paine, George H., Philadelphia, Pa. Pipe-vise	346,496	Aug. 3	60	15	36	471
Paine, George W., Sullivan, Ill. Device for operating sashes	345,857	July 20	1521	394	36	285
Paine, George W. Odessa, N. Y. Hitching-strap	348,991	Sept. 14	616	162	36	1166
Paine, Henry H., Philadelphia, Pa. Chair	341,047	May 4	101	30	35	523
Paine, Henry M., Newark, N. J. Electric motor	343,487	June 8	1061	265	35	1206
Paine, Henry M., Newark, N. J. Electric motor	355,024	Dec. 28	1988	523	37	1337
Paine, Irving, Hornellsville, N. Y. Shutter	342,456	May 25	2072	546	35	914
Paine, Richard H., Portsmouth, N. H. Under-garment	353,963	Dec. 7	454	123	37	1089
Paine, S. White, Rochester, N. Y. Check, draft, or receipt book	352,776	Nov. 16	1450	391	37	745
Painter, Gwynne E., Baltimore, Md. Electrical annunciator	348,045	Aug. 24	2224	595	36	900
Painter, Gwynne E., Baltimore, Md. Electrical annunciator	354,209	Dec. 14	828	219	37	1165
Paisley, John, Burlington, Iowa. Nut-lock	338,866	Mar. 30	2713	714	34	1442
Pake, Edward G., Zilwaukee, assignor to S. S. Mitts and W. Merrill, East Saginaw, Mich. Wood-cutting machine	348,768	Sept. 7	315	84	36	1106
Palm, Frank L. (See Petree, John M., assignor.)						
Palm, John H., Minneapolis, Minn. Circular sawing machine	345,070	July 6	380	96	36	69
Palm, John H., Minneapolis, Minn. Saw-table gage	345,071	July 6	382	96	36	69
Palm, Peter, assignor to W. E. Hafner and H. Will, Chicago, Ill. Sirup-gage	336,151	Feb. 16	1526	402	34	725
Palmer, Addison, *et al.* (See Hartmeyer, John, assignor.)						
Palmer, Augustus H., *et al.* (See Eichmeyer, Joseph C., assignor.)						
Palmer, Cassius C., New York, N. Y. Refrigerator	344,006	June 22	1761	454	35	1350
Palmer, Cecil, New York, N. Y., assignor to himself and W. B. Closson, Boston, Mass. Making drawings	353,325	Nov. 30	2232	598	37	908
Palmer, Charles, Philadelphia, Pa. Soap-dish for bath-tubs	345,918	July 20	1606	414	36	301
Palmer, Charles H., New York, N. Y. Straw-braid-sewing machine	345,801	July 20	1442	373 374	36	272
Palmer, Charles H., New York, N. Y. Straw-braid-sewing machine	345,802	July 20	1444	374 375	36	272
Palmer, Charles W., Cleveland, Ohio. Glass slide for microscopes	336,257	Feb. 16	1696	442	34	753
Palmer, Edward H., *et al.* (See Russell, Manuel, assignor.)						
Palmer, Edwin C., Cleveland, Ohio. Wrench	337,986	Mar. 16	1495	388	34	1207
Palmer, Francis I., New York, N. Y. Summer-house and bath-house	335,835	Feb. 9	1058	279	34	638
Palmer, Frank L., New London, Conn. Machine for quilting bed-comfortables, &c.	334,275	Jan. 12	1120	300 301	34	216
Palmer, Frank L., New London, Conn. Pattern mechanism for quilting-machines	340,349	Apr. 20	1803	462 463	35	336
Palmer, Frank L., New London, Conn. Making comfortables from continuous fabric	354,806	Dec. 21	1685	445	37	1328
Palmer, George E., Cedar Rapids, Iowa. Bosom-board	350,551	Oct. 12	631	174	37	122
Palmer, George E., and A. M. Ewart, Chicago, Ill. Furnace for steam-generators	349,737	Sept. 28	1656	427	36	1378
Palmer, George W., assignor of one-half to C. B. Watkins, South Norwalk, Conn. Row-lock	345,919	July 20	1607	414	36	301
Palmer, Horace, Lebanon, Conn. Saw-buck	333,777	Jan. 5	383	105	34	73
Palmer, Isaac E., Middletown, Conn. Spreader for spreading and stretching fabrics	337,987	Mar. 16	1495	388	34	1207
Palmer, Isaac E., Middletown, Conn. Band for packages	340,238	Apr. 20	1637	415	35	305
Palmer, Isaac E., Middletown, Conn. Suspension device for hammocks	340,239	Apr. 20	1639	415	35	305
Palmer, Isaac E., Middletown, Conn. Suspension device for hammocks	344,495	June 29	2451	630	35	1460
Palmer, Isaac E., Middletown, Conn. Starch-clearing, &c., woven fabrics	346,602	Aug. 3	192	51, 52	36	497
Palmer, Isaac E., Middletown, Conn. Band for packages	350,149	Oct. 5	75	21, 22	37	17
Palmer, James J., Fall Brook, Pa. Pipe-tongs	334,276	Jan. 12	1125	301	34	217

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Palmer, James M., Boston, Mass. Automatic gas-regulator	344,131	June 22	1948	497	35	1382
Palmer, John H., Philadelphia, Pa. Button-hole attachment for sewing-machines	335,836	Feb. 9	1059	289	34	638
Palmer, John H., West New Brighton, N. Y. Paint	350,765	Oct. 12	935	.....	37	177
Palmer, John P., *et al* (See Hartmeyer, John, assignor.)						
Palmer, John R., Dayton, Ohio. Feed-regulator for roller-mills	334,891	Jan. 26	1947	518	34	382
Palmer, John S., Providence, R. I. Machine for drawing metallic shells	342,840	June 1	91	23	35	1023
Palmer, John W., Tipton, Mo., assignor to Osborn & Peck, New York, N. Y. Card or picture holder	353,582	Nov. 30	2608	696	37	979
Palmer, Joseph R., Wide Awake, Ky. Churn-dasher	342,839	June 1	90	23	35	1023
Palmer, Lyman F., assignor to L. I. Palmer, Topeka, Kans. Folding rack	347,732	Aug. 17	1775	473	36	808
Palmer, Lyman I. (See Palmer, Lyman F., assignor.)						
Palmer, Mark S., Reading, Mass. Machine for making cord and rope	353,036	Nov. 23	1824	490 / 491	37	822
Palmer, Noyes F., *et al.* (See Heath, Henry R., assignor.)						
Palmer, Noyes F., Jamaica, N. Y. Fountain pen	352,564	Nov. 16	1167	314	37	691
Palmer, Noyes F., Jamaica, N. Y. Telephone	353,755	Dec. 7	141	49	37	1033
Palmer, Noyes F., Jamaica, assignor of two-thirds to C. S. Goodwin and H. R. Heath, New York, N. Y. Button	336,061	Feb. 9	1371	362	34	692
Palmer, Noyes F., Jamaica, assignor of two-thirds to C. S. Goodwin and H. R. Heath, New York, N. Y. Button	336,062	Feb. 9	1371	362	34	692
Palmer, Noyes F., Jamaica, assignor of two-thirds to C. S. Goodwin and H. R. Heath, New York, N. Y. Button	336,063	Feb. 9	1372	363	34	693
Palmer, Noyes F., Jamaica, assignor of two-thirds to C. S. Goodwin and H. R. Heath, New York, N. Y. Button	336,064	Feb. 9	1372	363	34	693
Palmer, Noyes F., Jamaica, assignor of one-fourth to A. H. Ackermann, East New York, N. Y. Fountain-pen	337,610	Mar. 9	992	255	34	1111
Palmer, Noyes F., Jamaica, assignor to Combination Button Company, New York, N. Y. Button	343,277	June 8	734	182	35	1148
Palmer, Peter L., White Cloud, Kans. Apparatus for localizing and extinguishing fires in houses and vessels	334,461	Jan. 19	1379	372	34	270
Palmer, Stephen, Lansingburg, N. Y. Window-blind	343,724	June 15	1407	350	35	1275
Palmer, Stephen, Lansingburg, N. Y. Window-blind slat	346,678	Aug. 3	287	78	36	517
Palmer, Stephen, Lansingburg, N. Y. Sliding door	354,576	Dec. 21	1349	358	37	1266
Palmer, Stephen, and C. E. Thompson, Lansingburg, N. Y. Sliding-door hanger	340,150	Apr. 20	1503	380	35	281
Palmer, Stephen J., Dover, N. J. Combined step-ladder and adjustable platform	337,988	Mar. 16	1498	389	34	1307
Palmer, Theodore J., New York, N. Y. Bureau	344,132	June 22	1950	498	35	1383
Palmer, Timothy G. (See Havey, Black, and Palmer.)						
Palmer, Timothy G. (See Roser, Harry, assignor.)						
Palmer, Timothy G., Schultzville, N. Y. Torpedo railway-signal	334,133	Jan. 12	888	243	34	173
Palmer Torpedo Railway Signal Company. (See Clark, Henry F., assignor.)						
Palmer Torpedo Railway Signal Company. (See Deuel, Jacob, assignor.)						
Palmer Torpedo Signal Company. (See Deuel, Jacob, assignor.)						
Palmer, Wilford L., New York, N. Y. Tobacco-pipe	334,462	Jan. 19	1380	372	34	270
Palmer, William, Jacksonville, Ohio. Combined tie and rail holder and spike-puller	333,539	Jan. 5	58	16	34	13
Palmer, William, assignor of one-half to G. H. Venning, Jacksonville, Ohio. Air shutter or door	344,853	July 6	77	20	36	15
Palmer, William B., Greenwich, N. Y. Lamp-collar	334,043	Jan. 12	759	208	34	149
Palson, Magnus J., Elizabeth, N. J., assignor to himself, F. R. Walker, Gloucester, Mass., and W. M. Crane, Roselle, N. J. Machine for splitting and cleaning fish	353,268	Nov. 23	2151	576	37	887
Pancoast, David S., Philadelphia, Pa. Fence-post	347,956	Aug. 24	2114	563	36	879
Panyard, Joseph, assignor of one-half to H. D. Baker, Muskegon, Mich. Paper-trimmer and gage-board	342,127	May 18	1591	425	35	820
Panzig, Bruno E., Philadelphia, Pa. Gas-lamp	352,777	Nov. 16	1451	391	37	745
Paradis, Joseph H., Amherstburg, Ontario, Canada. Book-holder	348,767	Sept. 7	314	84	36	1106
Paraffine Paint Company. (See Pearce and Beardsley, assignors.)						
Parcelle, Albert L., Boston, Mass., assignor to National Electrical Company, New York, N. Y. Vibrating electric motor	345,720	July 20	1322	342 / 343	36	251
Parcelle, Albert L., Boston, Mass., assignor to National Electrical Company, New York, N. Y. Electrical synchronous movement	345,721	July 20	1325	344	36	251
Pardoe, Charles, *et al.* (See Lilley, Alfred, assignor.)						
Parelius, Christopher B., assignor of one-half to B. Lindawer, Chicago, Ill. Plaiting attachment for sewing-machines	350,552	Oct. 12	632	174	37	122
Paris, Daniel E., Troy, N. Y. Stove-leg	334,134	Jan. 12	889	243	34	173
Paris, Daniel E., Troy, N. Y. End shelf for stoves	334,135	Jan. 12	890	244	34	173
Paris, Daniel E., Troy, N. Y. Combined parlor and cooking stove	345,530	July 13	1039	264	36	192
Paris, Daniel E., Troy, N. Y. Oven-door	345,531	July 13	1041	264 / 265	36	193
Paris, Daniel E., Troy, N. Y. Extension-top and feeder for stoves	345,532	July 13	1043	265 / 266	36	193
Paris, Daniel E., Troy, N. Y. Shelf for ovens	345,533	July 13	1045	266	36	193
Paris, Daniel E., Troy, N. Y. Draft-door and check-draft	353,964	Dec. 7	455	123	37	1089
Parish, Charles P., *et al.* (See Moody, William F., assignor.)						
Parish, Francis M. (See Shomate, Joseph F., assignor.)						
Parish, William F., Minneapolis, Minn. Saw-guide	342,876	June 1	143	36	35	1032
Parish, William F., Minneapolis, Minn. Circular-saw mill	349,356	Sept. 21	1115	287 / 288	36	1267
Parish, William F., Minneapolis, Minn. Pulley	352,837	Nov. 16	1533	413	37	759
Parish, William F., Minneapolis, Minn. Saw-mill set-works	352,838	Nov. 16	1534	413	37	760
Park, Aaron, Ottumwa, Iowa. Springless lock	345,072	July 6	383	96, 97	36	70
Park, Harvey S., Henderson, Ky. Electro-magnetic car-brake	348,636	Sept. 7	142	40	36	1073
Park, Harvey S., Henderson, Ky. Car-brake	349,738	Sept. 28	1657	428	36	1378
Park, Harvey S., Henderson, Ky. Electro-magnetic car-brake	351,650	Oct. 26	2249	582	37	430
Park, Harvey S., Henderson, Ky. Electro-magnetic car-brake	353,880	Dec. 7	325	85	37	1067
Park, James A., assignor to P. E. Park, Lansing, Mich. Snap-hook for harness	342,877	June 1	145	36	35	1032
Park, P. E. (See Park, James A., assignor.)						
Park, William R., Taunton, Mass. Jet apparatus	352,980	Nov. 23	1734	465	37	806
Parke, Horace D., Syracuse, N. Y. Combined step-ladder and ironing-board	335,714	Feb. 9	883	233	34	605
Parke, Sarah A., Bay City, Mich. Saw-tooth-swaging device	333,540	Jan. 5	59	17	34	14
Parker, Andrew H. (See Hoult, Cyrus, assignor.)						
Parker, Andrew H. (See Owen, Thomas G., assignor.)						
Parker, Arthur A., Jersey City, N. J. Fence-post	334,719	Jan. 19	1733	462	34	335
Parker, Benjamin F. (See Parker, Zachariah T. and B. F.)						
Parker, Charles J., Alberton, Md. Cooking-vessel	338,547	Mar. 23	2250	591	34	1353
Parker, Chauncey C., Brooklyn, N. Y. Nose-piece for eyeglasses	348,992	Sept. 14	618	163	36	1166

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Parker Company, Charles. (See Parker, Dexter W., assignor.)						
Parker Company, Charles. (See Slater, Edmond B., assignor.)						
Parker, De Forest. (See Jahant and Parker.)						
Parker, Dexter W., assignor to C. Parker Company, Meriden, Conn. Extension-lamp	336,738	Feb. 23	2357	617	34	880
Parker, Dexter W., assignor to C. Parker Company, Meriden, Conn. Extension lamp-fixture	339,205	Apr. 6	129	35	35	25
Parker, Edmund A., Wallingford, Conn. Covered dish	341,271	May 4	418	114	35	582
Parker, Erastus N., Springfield, Mass. Sash-loop fastening	351,522	Oct. 26	2058	534	37	396
Parker, Frederick A., West Gardner, Mass. Child's chair	336,942	Mar. 2	82	22	34	941
Parker, Frederick A., Gardner, assignor to Thompson, Perley & Waite, Baldwinsville, Mass. Child's chair	342,841	June 1	94	24	35	1023
Parker, George, Bay City, Mich. Automatic stop for steam-engines	337,611	Mar. 9	993	255	34	1112
Parker, George A., Chicopee, Mass., assignor of one-half to W. Bower, New Britain, Conn. Ball-bearing for vehicles	341,816	May 11	1165	311	35	734
Parker, Howard, Saccarappa, Me., assignor of one-half to H. Fairbanks, St. Johnsbury, Vt. Machine for forming hollow ware from pulp	348,292	Aug. 31	2588	696	36	974
Parker, James M., Turnersburg, N. C. Pocket-knife	342,128	May 18	1593	425	35	821
Parker, James N., Elkhart, Ind. Harvester-sickle-grinding machine	340,386	Oct. 5	375	108	37	75
Parker, John C. (See Berry and Parker.)						
Parker, John J., Aitkin, assignor to H. H. Corbett, St. Cloud, Minn. Crosscut saw	335,087	Jan. 26	2221	590	34	431
Parker, John J., Aitkin, assignor to W. F. Eddebrock, St. Cloud, Minn. Saw	336,739	Feb. 23	2358	617	34	881
Parker, John J., Aitkin, Minn., assignor to W. W. Parker, Spearfish, Dak. Ter. Safety-car platform	344,286	June 22	2166	555	35	1421
Parker, John W., assignor to Clinton Wire Cloth Company, Clinton, Mass. Shuttle for weaving wire-cloth	352,565	Nov. 16	1168	314	37	691
Parker, Ralzemond A. (See Burton, Charles F., assignor.)						
Parker, Ralzemond A., *et al.* (See Tomlinson, James, assignor.)						
Parker, Russell, *et al.* (See Perkins and Sutton, assignors.)						
Parker, Russell, *et al.* (See Sutton, Benjamin F., assignor.)						
Parker, Russell, Brooklyn, N. Y. Syringe	341,855	May 11	1215	325	35	743
Parker, Russell, assignor to himself, J. H. Stearns, and B. F. Sutton, Brooklyn, N. Y. Manufacture of longitudinally-folded tubes	352,656	Nov. 16	1299	350	37	715
Parker, Samuel. (See Rudd, John N., assignor.)						
Parker, Samuel C., Farmington, Mo. Washing-machine	339,805	Apr. 13	1028	255	35	188
Parker, Samuel J. (See Ross and Parker.)						
Parker, Stearns & Sutton. (See Sutton, Benjamin F., assignor.)						
Parker, Theodore H., and J. Geary, assignors to Shaw & Geary, Philadelphia, Pa. Window-spring for electric burglar-alarms	353,269	Nov. 23	2154	576	37	887
Parker & Whipple Company. (See Wright and Wood, assignors.)						
Parker, William D., Worcester, Mass. Air-engine for mechanical musical instruments	355,201	Dec. 28	2245	592	37	1447
Parker, William W. (See Parker, John J., assignor.)						
Parker, Zachariah T. and B. F., Longton, assignors to N. B. Moore, Caldwell, Kans. Machine for cutting and bunching corn	344,400	June 29	2323	599	35	1458
Parkes, Frank. (See Hands and Parkes.)						
Parkes, William B., Bay View, assignor of one-half to F. Hinton, Milwaukee, Wis. Roll-ingmill	353,270	Nov. 23	2155	577	37	888
Parkhurst, Edward B., Woburn, and C. Lovell, Boston, Mass., assignors to Albert Nail Company, New York, N. Y. Wire-nail machine	345,534	July 13	1046	266 / 267	36	194
Parkhurst, Edward G., assignor to Pratt & Whitney Company, Hartford, Conn. Carriage for machine-guns	341,499	May 11	731	197	35	648
Parkhurst, Edward G., assignor to Pratt & Whitney Company, Hartford, Conn. Friction-holdfast	341,500	May 11	732	197	35	649
Parkhurst, Emily R. (See Parkhurst, Stephen R., assignor.)						
Parkhurst, Emmons M., Philadelphia, Pa., assignor to Champion Shoe Burnishing Machine Company. Burnishing-machine for boots or shoes	353,756	Dec. 7	142	39	37	1033
Parkhurst, Stephen R., assignor to E. R. Parkhurst, Montclair, N. J. Machine for feeding, opening, and mixing wool	336,660	Feb. 23	2260	589	34	861
Parkhurst, Stephen R., assignor to E. R. Parkhurst, Montclair, N. J. Doffing apparatus for picking or ginning machines	337,014	Mar. 2	183	48	34	958
Parkin, Charles, assignor to Miller, Metcalf & Parkin, Pittsburg, Pa. Compound ingot-mold	347,636	Aug. 17	1648	437	36	786
Parkin, William H., Cleveland, Ohio. Emery knife-sharpener	339,683	Apr. 13	868	213	35	159
Parkinson, Thomas. (See Schlegel, Israel, assignor.)						
Parkison, Allen R., Monongahela City, Pa. Safety-stirrup	352,259	Nov. 9	782	209	37	609
Parks, Alexander, Jr., Martinsburg, W. Va. Utilizing the waste of breweries, &c	345,987	July 20	1700	.....	36	318
Parks, Byron E., Ferrysburg, Mich. Link-grinding machine	339,010	Mar. 30	2931	776	34	1480
Parks, David P. (See Smith, Harman H., assignor.)						
Parks, Joseph L. (See Prentice, William H., assignor.)						
Parks, Noble K., Pilot Grove, Ind. Car-coupling	343,488	June 8	1062	265	35	1206
Parks, William, Sr., and W. L., Jr., Meadville, Pa. Meat-clamp	348,769	Sept. 7	316	84	36	1106
Parks, William L., Jr. (See Parks, William, Sr., and W. L., Jr.)						
Parlow, Benjamin G., *et al.* (See Ford, Simeon J., assignor.)						
Parmelee, Arthur W., Worcester, Mass. Screw hook and eye	350,209	Oct. 5	163	48	37	34
Parmelee, Edwin S., Wallingford, Conn. Carriage-gear	348,770	Sept. 7	317	85	36	1106
Parmelee, John W., Englewood, Ill. Disintegrator	335,615	Feb. 9	741	197	34	580
Parmelee, William A., New Haven, Conn. Rope-molding machine	346,679	Aug. 3	288	79	36	517
Parmelee, William L., Birmingham, Conn. Screw-driver	339,456	Apr. 6	493	120	35	91
Parmly, Eleazar. (See Houghtaling, William, assignor.)						
Parnell, Edward A., Swansea, county of Glamorgan, England. Ferrated cake of chocolate	335,952	Feb. 9	1221	.....	34	666
Parnell, Edward W., and J. Simpson, Liverpool, county of Lancaster, England. Ammonia-soda process	343,673	June 15	1315	329	35	1258
Parnell, Edward W., and J. Simpson, Liverpool, county of Lancaster, England. Treating ammonium sulphide to obtain hydrogen sulphide	343,674	June 15	1317	.....	35	1259
Parnell, Edward W., and J. Simpson, Liverpool, county of Lancaster, England. Recovery of ammonia in ammonia-soda manufacture	343,675	June 15	1318	.....	35	1259
Parr, Henry A., New York, N. Y. Tooth-separator	350,150	Oct. 5	76	22	37	17
Parrish, Charles P., *et al.* (See Herboldshimer, John B., assignor.)						
Parrish, James F., assignor of one-half to F. B. Bradley, Peoria, Ill. Steam cooking and renovating apparatus	350,637	Oct. 12	765	210	37	146
Parrish, John H., near Saundersville, Tenn. Feed-cutter	337,429	Mar. 9	732	193	34	1070
Parrish, William H., Richmond, Va. Strap-ear for well-buckets	348,046	Aug. 24	2225	595	36	900
Parrish, William N., Richmond, Ind. Tension apparatus for wire fences	334,801	Jan. 26	1838	490	34	362
Parry, Charles T., Philadelphia, Pa. Feed-table for punching-machines	343,842	June 15	1546	391 / 392	35	1301

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Parry, Charles T., Philadelphia, Pa. Bolt-heading machine	343,843	June 15	1548	392, 393	35	1302
Parry, David M., Rushville, Ind. Cut-off for planters	347,637	Aug. 17	1649	437	36	786
Parry, George T., Philadelphia, Pa. Turn table	338,357	Mar. 23	1996	526	34	1308
Parry, Henry, Milwaukee, Wis. Chair	346,311	July 27	2152	553	36	412
Parsil, Edwin R. (See Gamble, John, assignor.)						
Parsil, Edwin R., and J. H. Trowbridge, Newark, N. J. Alarm-bottle	353,807	Dec. 7	217	58	37	1046
Parsons, Charles A., Gateshead-on-Tyne, England. Dynamo-electric machine	344,542	June 29	2523	651, 652, 653	35	1493
Parsons, Erskine D., Kansas City, Mo. File-stand	347,504	Aug. 17	1439	382	36	746
Parsons, Francis W., Philadelphia, Pa., assignor to W. Warren, Dedham, Mass. Car-coupling link	348,575	Sept. 7	59	17	36	1058
Parsons, Francis W., Philadelphia, Pa., assignor to W. Warren, Dedham, Mass. Car-coupling link	352,147	Nov. 9	626	166	37	582
Parsons, Francis W., Philadelphia, Pa., assignor to W. Warren, Dedham, Mass. Car-coupling	352,566	Nov. 16	1169	315	37	691
Parsons, James D., Springfield, Mass. Collar or cuff	353,642	Nov. 30	2716	725	37	997
Parsons, James I. (See Day, Aaron G., assignor.)						
Parsons, James I. (See Little and Stoddard, assignors.)						
Parsons, John H., Chicago, Ill Train-signal	352,567	Nov. 16	1170	315, 316	37	692
Parsons, John M. and W. H., Great Western Mine, Cal. Wrench	352,260	Nov. 9	782	209	37	609
Parsons, John R., and H. H. Welch, Earlville, N. Y. Vehicle	352,981	Nov. 23	1735	465	37	806
Parsons, Joseph M., *et al.* (See Upham and Fay, assignors.)						
Parsons, Samuel W., Ypsilanti, Mich. Washing-machine	333,778	Jan. 5	384	105	34	73
Parsons, William B., Jr., New York, N. Y. Automatic flushing-siphon	334,606	Jan. 19	1573	420	34	305
Parsons, William B., Dalton, N. Y. Land-roller	352,710	Nov. 16	1376	372	37	730
Parsons, William C., Akron, Ohio. Hydrometric conveyer	335,236	Feb. 2	216	56, 57	34	479
Parsons, William H. (See Parsons, John M. and W. H.)						
Parsons, Winslow R., Waterloo, Iowa. Ruffling attachment for sewing-machines	354,577	Dec. 21	1351	358	37	1266
Partington, John, Winnipeg, Manitoba, Canada. Packing for rods	336,152	Feb. 16	1527	402	34	725
Partrick, Hawley, assignor of one-half to F. P. Clark, Danbury, Conn. Surgical splint	336,740	Feb. 23	2359	617	34	881
Partridge, Andrew, assignor of one-half to D. F. Sweeney, Springfield, Mass. Safety-razor. (Reissue)	10,748	July 27	2363	606	36	450
Partridge, Andrew, assignor to Diamond Safety Razor Company, Springfield, Mass. Shaving apparatus	348,576	Sept. 7	60	18	36	1058
Partridge, Charles S. (See Pratt and Partridge.)						
Partridge, Ebenezer, Birmingham, county of Warwick, England. Hub-attaching device	342,630	May 25	2325	613, 614	35	960
Partridge, Ebenezer, Birmingham, county of Warwick, England. Back collar for axle-boxes	350,387	Oct. 5	376	109	37	76
Partz, August F. W., assignor to Partz Electric Battery Company, Philadelphia, Pa. Voltaic battery	347,440	Aug. 17	1355	361	36	730
Partz, August F. W., assignor to Partz Electric Battery Company, Philadelphia, Pa. Voltaic battery	353,757	Dec. 7	143	39	37	1033
Partz Electric Battery Company. (See Partz, August F. W., assignor.)						
Passel, George W., assignor to J. A. Fay & Co., Cincinnati, Ohio. Presser attachment for planing-machines	347,254	Aug. 10	1073	287	36	671
Passmore, Levis. (See McFarland and Passmore.)						
Patch, Asahel H., Clarksville, Tenn. Corn-sheller	353,080	Nov. 23	1881	508	37	833
Patent Button Company. (See Platt, Clark M., assignor.)						
Patent Paper Cigar Box Company. (See Powers, Daniel, assignor.)						
Patent Paper Cigar Box Company. (See Powers, Daniel E., assignor.)						
Pates, Thomas, assignor to Hangood Plow Company, Alton, Ill. Planting-plow	338,186	Mar. 16	1765	460	34	1269
Pates, William S., Jonesburg, Mo. Reversible harrow	350,893	Oct. 12	1120	298	37	211
Pates, William S., Alton, Ill. Sulky-plow	352,999	Nov. 23	1761	473	37	811
Pates, William S., Alton, Ill. Cultivator	353,000	Nov. 23	1764	473, 474	37	812
Pates, William S., Alton, Ill. Guide-runner for plows	353,232	Nov. 23	2098	562	37	877
Patin, Justin, New Roads, assignor of one-half to E. A. Koch, Waterloo, La. Steamboat-stage	337,281	Mar. 2	539	141	34	1026
Paton, James, Montreal, Quebec, Canada. Toboggan	351,790	Nov. 2	87	24	37	474
Paton, Mary A., Paris, Ky. Head-dress	338,101	Mar. 16	1655	430	34	1237
Patrick, Benjamin D., Appleton City, Mo. Bumper for doors	335,616	Feb. 9	742	198	34	580
Patrick, Frank H., South Hadley Falls, Mass. Creel-frame for warping-mills	339,684	Apr. 13	869	213	35	159
Patrick, Frank H., South Hadley, assignor of one-half to T. C. Entwistle, Lowell, Mass. Creel for warping, beaming, and other machines	350,553	Oct. 12	633	174	37	122
Patrick, John J. R., Bellefontaine, Ill. Artificial leg	346,312	July 27	2154	554	36	412
Patrick, Robert, Brainerd, Minn. Fire-actor for boilers	341,048	May 4	103	30	35	523
Patrick, Theodore L., assignor to himself and L. Sprague, Paw Paw, Ill. Gate	337,612	Mar. 9	994	255	34	1112
Patrick, William W. (See Howard, Cyrus, assignor.)						
Pattee, Davis, Des Moines, Iowa. Steam-engine	337,860	Mar. 16	1313	341	34	1174
Pattee, Solon. (See Smith, Alphonso B., assignor.)						
Patten, George, *et al.* (See Daelen, Lambert A., assignor.)						
Patten, George, Clarksville, assignor to M. Patten, Nashville, Tenn. Metallic roofing-plate	484,354	Dec. 14	1207	323	37	1233
Patten, George M., Jersey City, N. J. Caster	335,301	Feb. 2	300	80	34	495
Patten, Moultrie. (See Patten, George, assignor.)						
Patten, Thomas, Jr., and C. Anderson, Appleton, Wis. Pump	349,951	Sept. 28	1944	503	36	1434
Patten, William H. (See Huntley, Charles E., assignor.)						
Patten, William R., Elmsdale, Kans. Sliding gate	354,210	Dec. 14	829	220	37	1165
Patterson, A. H. (See Roth, Elias D., assignor.)						
Patterson, Aaron R. (See Sheldon and Patterson.)						
Patterson, Elbridge J. (See Dexter and Patterson.)						
Patterson, Ellis, Cartersville, Ga. Tire-upsetter	341,937	May 18	1331	356	35	772
Patterson, Ellis, Cartersville, Ga. Cultivator	353,707	Dec. 7	79	21	37	1020
Patterson, Frank J., and I. P. Davis, assignors to National Cash Register Company, Dayton, Ohio. Cash register and indicator	344,982	July 6	261	65, 66	36	47
Patterson, Frank J., I. P. Davis, and A. Herrman, assignors to National Cash Register Company, Dayton, Ohio. Cash indicator and recorder	351,459	Oct. 26	1964	511	37	376
Patterson, Frank J., I. P. Davis, and A. Herrman, assignors to National Cash Register Company, Dayton, Ohio. Cash register and indicator	351,460	Oct. 26	1966	511	37	377
Patterson, James K., Crete, Nebr. Automatic railway-gate	334,892	Jan. 26	1948	518, 519	34	382

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Patterson, James M., and E. A. Himebauch, Tipton, Cal. Track-clearer for mowers	335,769	Feb. 9	967	256	34	620
Patterson, James S., Juniata County, assignor of one-half to S. P. Wharton, Philadelphia, Pa. Fire-arm lock	346,941	Aug. 10	635	170	36	591
Patterson, Jesse E., *et al.* (See Jacobs, Charles A., assignor.)						
Patterson, John G., *et al.* (See Scott, John O., assignor.)						
Patterson, John H., Fort Assinaboine, Mont. Ter. Intrenching-tool	350,151	Oct. 5	77	22	37	17
Patterson, John M., Ridge Farm, Ill. Fence-machine	337,989	Mar. 16	1498	389	34	1208
Patterson, John W., Madisonville, Ky. Vehicle-spring	333,953	Feb. 9	1222	325	34	667
Patterson, John W., Madisonville, Ky. Vehicle-spring	352,065	Nov. 2	485	131	37	550
Patterson, Myron F., *et al.* (See Scott, John O., assignor.)						
Patterson, Peter, assignor of one-half to National Tube Works Company, McKeesport, Pa. Apparatus for welding tubing	341,162	May 4	262	75, 76	35	553
Patterson, Thomas G. (See Hunley, Booker T. M., assignor.)						
Patterson, William, San Francisco, Cal. Auger for cutting square holes	333,662	Jan. 5	214	59	34	42
Patterson, William, San Francisco, Cal. Steam air-ship	340,610	Apr. 27	2163	568, 569	35	407
Patterson, William C., Elizabeth, N. J. Electrical meter	333,779	Jan. 5	385	105	34	73
Patterson, William F., Boston, Mass., and H. B. Stillman, New York, N. Y. Screw-driver	346,603	Aug. 3	194	52	36	498
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Machine for winding lead tape upon telegraph-cables	346,414	July 27	2299	592	36	439
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Splice for underground cables	346,942	Aug. 10	636	171	36	591
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Galvanic battery	352,486	Nov. 9	1064	286	37	665
Patterson, William S., assignor of one-fourth to G. W. Bishop, Allegheny City, Pa. Pressure regulator	353,081	Nov. 23	1882	508	37	834
Pattin, William S., Portsmouth, Ohio. Sash-balance	350,695	Oct. 12	843	227	37	160
Pattison, Allen S., Cambridge, Md., assignor of one-half to J. J. Pattison, Washington, D. C. Copy-holder for type-writing machines	342,707	May 25	2434	646, 647	35	981
Pattison, George H., Freeport, Ill. Gearing for windmills	345,317	July 13	719	182	36	136
Pattison, George H., Freeport, Ill. Gearing for windmills	345,722	July 20	1328	344	36	252
Pattison, George H., Freeport, Ill. Gearing for windmills	348,411	Aug. 31	2750	738	36	1006
Pattison, George H., Freeport, Ill. Gearing for windmills	351,461	Oct. 26	1968	512	37	377
Pattison, George H., Freeport, Ill. Gearing for windmills. (Reissue)	10,789	Dec. 14	1273	340	37	1245
Pattison, Henry, St. John, New Brunswick, Canada. Press	338,867	Mar. 30	2714	714	34	1442
Pattison, J. James. (See Pattison, Allen S., assignor.)						
Pattison, Thomas P., St. Joseph, Mo. Index	351,281	Oct. 19	1673	439	37	319
Patton, Asa K., Jr. (See Fiske, Henry G., assignor.)						
Patton, Hiram W. (See La Bar and Patton.)						
Patton, Samuel W., E. B. Guerin, and W. N. Fitz Gerald, Newark, N. J. Carriage-spring	350,210	Oct. 5	165	48	37	34
Pattyson, William D. C., Boston, assignor of one-half to G. E. Rogers, Winchester, Mass. Toy	350,766	Oct. 12	935	252	37	178
Pauckner, Frank A. (See Donnell and Pauckner.)						
Paul, Abel. (See Kitto, Paul, and Nancarrow.)						
Paul, Almarin B., San Francisco, Cal. Circular ore-stamp battery	334,675	Jan. 19	1671	446	34	323
Paul, George D., assignor, by mesne assignments, to Paul Manufacturing Company, East Orange, N. J. Shutter-fastener	354,653	Dec. 21	1472	391	37	1288
Paul Manufacturing Company. (See Paul, George D., assignor.)						
Paul, William H., assignor of one-half to W. D. Smith, Baltimore, Md. Securing bosoms to shirt-bodies	349,283	Sept. 14	1015	239	36	1239
Paulin, Victor E., Allegheny City, Pa. Elevator-gate	354,990	Dec. 28	1943	513	37	1389
Paull, Archibald W. (See Butters, George F., assignor.)						
Paull, Archibald W. (See Miller, John F., assignor.)						
Paull, Archibald W., Wheeling, W. Va. Drawing corrugated cups of sheet metal	353,426	Nov. 30	2382	635, 636	37	936
Paull, Archibald W., Wheeling, W. Va., assignor of one-half to J. F. Miller, Martin's Ferry, Ohio. Thermometer	342,222	May 18	1705	454	35	842
Paull, Archibald W., and G. F. Butters, Wheeling, W. Va.; said Butters assignor to said Paull. Drawing sheet metal	343,390	June 8	922	231	35	1182
Paull, Archibald W., and G. F. Butters, Wheeling, W. Va.; said Butters assignor to said Paull. Drawing sheet-metal articles	344,457	June 29	2393	616, 617	35	1470
Paull, Archibald W., and G. F. Butters, Wheeling, W. Va.; said Butters assignor to said Paull. Drawing sheet-metal articles	344,458	June 29	2394	617	35	1471
Paull, Archibald W., and G. F. Butters, Wheeling, W. Va.; said Butters assignor to said Paull. Drawing sheet-metal articles	344,459	June 29	2395	617, 618	35	1471
Paull, Elbridge G., assignor to American Tack Company, Fairhaven, Mass. Tack	336,426	Feb. 16	1928	505	34	797
Paulme, Paul F., New York, N. Y. Coat, &c.	339,920	Apr. 13	1181	293	35	217
Paulsen, Julius M., Troy, N. Y. Making razor-strops	333,663	Jan. 5	216	59	34	42
Paulus, Peter, and H. Faber, Milwaukee, Wis. Window-screen	334,676	Jan. 19	1672	446	34	323
Paxman, James N., and H. G. Plane, Colchester, county of Essex, England. Steam-boiler	351,201	Oct. 19	1571	412, 413	37	301
Paxson, Charles H., assignor to J. H. Thomas, Springfield, Ohio. Lawn-mower	351,791	Nov. 2	88	24	37	474
Paxton, David E. (See Paxton and Maburin.)						
Paxton, Hugh. (See Dunitz, Murphy, and Paxton.)						
Paxton, Samuel D. and D. E., and A. Maburin, Ukiah, Cal. Animal-shears	342,129	May 18	1594	425	35	821
Pay, Stephen R., Peoria, Ill. Plaque-easel	354,211	Dec. 14	829	220	37	1165
Payler, John W., Detroit, Mich. Slide-valve	337,613	Mar. 9	995	255	34	1112
Payne, Alexander, Walton-upon-Thames, county of Surrey, England. Razor-sharpener	345,723	July 20	1330	345	36	252
Payne, Clarence O., Stamford, Conn. Magnetic ore-separator	348,771	Sept. 7	318	85	36	1106
Payne, Cornelius B., *et al.* (See Graves, John, assignor.)						
Payne & Co., Walter S. (See Payne, Walter S., assignor.)						
Payne, Henry C., Webster City, Iowa. Wash boiler	354,212	Dec. 14	831	220	37	1166
Payne, Henry S., Camden, N. J. Whiffletree	340,151	Apr. 20	1504	380	35	282
Payne, John, San Francisco, Cal. Bicycle-saddle	342,925	June 1	213	55	35	1044
Payne, Morgan, and D. Benson, Cardington, Ohio. Electric belt	340,815	Apr. 27	2449	644	35	458
Payne, Walter S., assignor to W. S. Payne & Co., Fostoria, Ohio. Stop or curb box	338,102	Mar. 16	1656	430	34	1237
Payne, Walter S., assignor to W. S. Payne & Co., Fostoria, Ohio. Safety-valve	338,436	Mar. 23	2112	553	34	1328
Payne, Walter S., assignor to W. S. Payne & Co., Fostoria, Ohio. Device for tapping mains	351,397	Oct. 26	1875	489	37	360
Peabody, George L., Pittsburg, Pa. Steam-engine	344,593	June 29	2585	669	35	1506
Peabody, Henry O., Boston, Mass. Fertilizer-distributer	343,193	June 8	609	151	35	1126
Peabody, Henry O., Boston, Mass. Fertilizer-distributer	351,462	Oct. 26	1970	512, 513	37	378
Peace, Frank H., Sheffield, county of York, England. Case for needles	349,174	Sept. 14	874	224	36	1212
Peace, John G., Salem, Mo. Combined table and desk	334,977	Jan. 26	2061	549, 550	34	402

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Peacock, Edward E., London, England. Type-writing machine	354,213	Dec. 14	831	220, 221	37	1166
Peacock, Elijah P., Chicago, assignor to Joliet Wire Check Row Company, Joliet, Ill. Machine for making check-row wire	337,430	Mar. 9	752	193, 194, 195, 196	34	1070
Peacock, Jacob S., Lancaster, Pa. Car-coupling	346,171	July 27	1952	503, 504	36	374
Peacock, John C., J. B. Graves, and G. A. Huffor, Waelder, Tex. Bed-bottom	350,014	Sept. 28	2033	525	36	1450
Peacock, Joseph V. (See Sheldon and Peacock.)						
Peal, Oscar. (See McFarland, James, assignor.)						
Pearce, George W., Philadelphia, Pa. Shade-holder clamp for children's carriages	341,272	May 4	419	115	35	582
Pearce, Lionel H., Coalbourne Brook, Stourbridge, county of Worcester, England. Vaporizing and distilling liquids	348,772	Sept. 7	319	85	36	1107
Pearce, Thomas A. (See Egly, John C., assignor.)						
Pearce, Thomas A. (See Langham, Thomas, assignor.)						
Pearce, Truman J., and M. W. Beardsley, Oakland, assignors to Paraffine Paint Company, San Francisco, Cal. Mixed paint	338,868	Mar. 30	2715	.....	34	1442
Pearce, Truman J., and M. W. Beardsley, Oakland, assignors to Paraffine Paint Company, San Francisco, Cal. Rendering animal and vegetable fiber water-proof, &c	348,993	Sept. 14	619	.....	36	1166
Pearce, Truman J., and M. W. Beardsley, Oakland, assignors to Paraffine Paint Company, San Francisco, Cal. Insulating wire and conductor for electrical purposes	348,994	Sept. 14	620	.....	36	1166
Pearce, Truman J., and M. W. Beardsley, Oakland, assignors to Paraffine Paint Company, San Francisco, Cal. Paper and products and manufacture thereof	348,995	Sept. 14	622	.....	36	1166
Pearce, Truman J., and M. W. Beardsley, Oakland, assignors to Paraffine Paint Company, San Francisco, Cal. Roofing fabric	348,996	Sept. 14	623	.....	36	1167
Pearce, William S. (See Demoss and Pearce.)						
Pearce, William W., Clanton, Ala. Hame-fastener	341,681	May 11	994	263	35	700
Pearcy Cane and Corn Harvester Company. (See Pearcy, Samuel H., assignor.)						
Pearcy, Samuel H., Franklin, Tenn., assignor to Pearcy Cane and Corn Harvester Company, of Tennessee. Harvester for sugar-cane, corn, &c	353,758	Dec. 7	144	39, 40	37	1033
Peard, James J., assignor to Colts Patent Fire-Arms Manufacturing Company, Hartford, Conn. Machine for cutting fish	341,682	May 11	995	263, 264	35	700
Peard, William M. (See Shriver and Peard.)						
Pearle, Eugene. (See Caspar, Alberta M. F., assignor.)						
Pearson, Charles, assignor to J. and J. Dobson, Philadelphia, Pa. Let-off mechanism for looms for weaving double-pile fabrics	343,648	June 15	1280	322	35	1253
Pearson, Fred S., Medford, assignor of one-half to W. H. Ward, Lowell, Mass. Wire-splicer	343,194	June 8	611	152	35	1127
Pearson, John M., Neoga, Ill. Harrow	335,617	Feb. 9	744	198	34	580
Pearson, Lorenzo, Chapman, Kans. Folding clothes-bar	351,999	Nov. 2	395	108	37	532
Pearson, Marshall H. (See Shayler and Pearson.)						
Pearson, Mason. (See Raper, Pearson, and Gill.)						
Pearson, Robert P., assignor to C. P. Hoskins, J. H. Eckel, and W. Sheble, Philadelphia, Pa. Bottle-fastener	342,382	May 25	1968	519	35	895
Pearson, Walter and W., West Milton, Ohio. Fence	339,457	Apr. 6	495	120	35	92
Pearson, William, W. R. Brown, and H. Price, Salt Lake City, Utah Ter. Circular-knitting machine	344,196	June 22	2042	522	35	1399
Pearson, Willis. (See Pearson, Walter and W.)						
Peary, Robert E., Cape Elizabeth Depot, Me. Lock-gate	339,458	Apr. 6	495	120, 121	35	92
Pease, Charles P., Lockport, N. Y. Machine for perforating patterns	354,435	Dec. 14	1139	301	37	1221
Pease, Chauncey D., New York, N. Y. Ornamental glass panel	334,677	Jan. 19	1673	447	34	325
Pease, Chauncey D., New York, N. Y. Action-rail for pianos	344,677	June 29	2691	698	35	1527
Pease, Durell O., Hampden, Mass. Head for continuous drawing and twisting	337,015	Mar. 2	184	48	34	958
Pease, John F., Syracuse, N. Y. Hot-air furnace	350,601	Oct. 12	706	192	37	136
Peaslee, Charles R., Louisville, Ky. Power sheet-metal-grooving machine	348,577	Sept. 7	61	18	36	1058
Peay, John M., Pembroke, Ky., W. A. Peay, Milton, Tenn., and J. H. Helsley, Paradise, Ky. Automatic fan	339,011	Mar. 30	2933	777	34	1480
Peay, William A. (See Peay and Helsley.)						
Peck, Andrew, *et al.* (See Fowler, George B., assignor.)						
Peck Car Coupler and Manufacturing Company. (See Peck, Henry L., assignor.)						
Peck, Charles H., assignor to I. F. Peck, Providence, R. I. Attaching needles to threads, &c	348,047	Aug. 24	2226	595	36	900
Peck, Ezra A., assignor to Piano Manufacturing Company, Plano, Ill. Harvester-reel	355,202	Dec. 28	2247	593	37	1448
Peck, Franklin D., assignor of two-thirds to S. S. and J. A. S. Longacre, Elkhart, Ind. Machine for making paper pails	341,163	May 4	264	76	35	553
Peck, Henry L., Newark, assignor to Peck Car Coupler and Manufacturing Company, Columbus, Ohio. Car-coupling	346,559	Aug. 3	136	37	36	486
Peck, Homer P. K., Brooklyn, N. Y., assignor to F. Hiscox, Newark, N. J. Artificial ear-drum	351,398	Oct. 26	1877	489	37	360
Peck, Ira F. (See Peck, Charles H., assignor.)						
Peck, Joseph W., Waltham, assignor to J. H. Waite, Orange, Mass. Type-writing machine	353,965	Dec. 7	457	124	37	1090
Peck, Stow & Wilcox Company. (See Bayrer, William J., assignor.)						
Peck, T. S. (See Stevens, Benjamin D., assignor.)						
Peck, Theodore S. (See Brownell, Frederick G., assignor.)						
Peck, Theodore S. (See Stevens, Benjamin D., assignor.)						
Peck, Theodore S., Burlington, Vt. Adjustable extension-screen	337,192	Mar. 2	415	108	34	1003
Peck, Theron W., assignor to E. P. Allis & Co., Milwaukee, Wis. Saw-mill carriage	333,664	Jan. 5	217	59	34	42
Peck, Theron W., assignor to E. P. Allis & Co., Milwaukee, Wis. Saw-hanging	336,661	Feb. 23	2261	589, 590	34	861
Peck, William A., assignor to S. L. and B. B. Lederer, Providence, R. I. Chain	354,436	Dec. 14	1141	305	37	1221
Peck, William V. (See Dudley, D. Willard, assignor.)						
Peckham, Edgar, Syracuse, N. Y. Method of and apparatus for treating tubes	342,130	May 18	1595	426	35	821
Peckham, Edgar, Syracuse, N. Y. Air-blast heating-oven	343,061	June 1	406	104	35	1080
Peckham, Edgar, Syracuse, N. Y., assignor to National Tube Works Company, Boston, Mass. Car-axle	352,657	Nov. 16	1300	350	37	715
Peckham, Edgar, Syracuse, N. Y., assignor to National Tube Works Company, Boston, Mass. Vehicle-axle	352,658	Nov. 16	1300	351	37	716
Peckham, Edgar, and E. Laass, assignor to M. J. Peckham, Syracuse, N. Y. Car-wheel	354,214	Dec. 14	835	221	37	1166
Peckham, M. J. (See Peckham and Laass, assignors.)						
Peckham, Peter W., New York, N. Y. Educational device	335,837	Feb. 9	1061	280	34	638
Peckover, James, Philadelphia, Pa. Stone-saw	334,678	Jan. 19	1675	447	34	323
Peckover, James, Philadelphia, Pa. Sand-feeding mechanism for stone-saw mills	341,683	May 11	999	264	35	701

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Pedder, John, Pittsburg, Pa. Rolling-mill	334,044	Jan. 12	760	208, 209	34	150
Pedder, John, Pittsburg, Pa. Furnace for melting glass, &c. (Reissue)	10,723	May 11	1234	330	35	746
Pedder, John, Pittsburg, Pa. Manufacture of plates having strata of different metal	350,152	Oct. 5	77	22	37	17
Peden, John C., Lawrenceburg, Ky., assignor to himself and Bourbon Copper and Brass Works, Cincinnati, Ohio. Process of and apparatus for distilling	349,449	Sept. 21	1255	325	36	1293
Peden, Joseph S., assignor of one-fourth to J. M. Eldridge, New York, N. Y. Hose-bridge	340,611	Apr. 27	2167	569	35	408
Pederson, Ole, Joliet, Ill. Furniture-caster	343,725	June 15	1408	351	35	1275
Pederson, Ole, assignor to Lechner Manufacturing Company, Columbus, Ohio. Riveting-machine	333,780	Jan. 5	387	106	34	73
Pedigo, Jesse W. (See Pedigo, William and J. W.)						
Pedigo, William and J. W., Norwood, Iowa. Hay tedder and cocker combined	335,618	Feb. 9	744	198, 199	34	581
Pedrick, Joseph B., Columbus, Ind. Corn-planter attachment	333,541	Jan. 5	61	17	34	14
Pedrick, Joseph B., Columbus, Ind. Corn-planter	335,954	Feb. 9	1223	325	34	667
Peelle, Jesse. (See Hill and Peelle.)						
Peeples, Thomas W., New York, N. Y. Gate for railway-cars	347,057	Aug. 10	796	211	36	619
Peer, Benjamin, Jr., Honeoye Falls, N. Y. Hop-kiln	345,53	July 13	1050	268	36	194
Peer, John A., assignor of one-half to Thompson & Norris, Brooklyn, N. Y. Roller-skate	339,317	Apr. 6	290	73	35	55
Peer, John A., assignor of one-half to Thompson & Norris, Brooklyn, N. Y. Roller-skate	339,318	Apr. 6	291	73	35	55
Peerless Manufacturing Company. (See Rice, Arthur, assignor.)						
Peerless Oil Ejector Company. (See Schmitt, Phillip L., assignor.)						
Peet Valve Company. (See Paget, Joseph T., assignor.)						
Peet, Warren L., Maple Rapids, Mich. Ticket-holder	336,258	Feb. 16	1098	442	34	753
Peets, Elias S. (See Damon and Peets.)						
Pefley, Artis L., Ladoga, Ind. Wheel-cultivator	337,861	Mar. 16	1314	341	34	1174
Pegg, Abijah H., Dowagiac, Mich. Furnace	345,536	July 13	1052	268	36	195
Pegg, John A., Jonestown, Miss. Sample box or package	337,585	Mar. 9	1206	313	34	1148
Pegg, John A., Jonestown, Miss. Shipping-tag	340,455	Apr. 20	1936	497	35	360
Pehrs, Julius, Denison, Iowa. Animal-releasing device	354,023	Dec. 7	542	147	37	1105
Peirce, Augustus F. (See Macdonald, William C., assignor.)						
Peirce, Charles L., Milwaukee, Wis. Skate	342,457	May 25	2073	546, 547	35	914
Peirce, Charles L., Milwaukee, Wis. Skate	342,458	May 25	2074	547	35	915
Peiter, Frederick P., Norwalk, Conn. Pen and pencil holder	343,391	June 8	924	231	35	1182
Pelisse, Augustus. (See Warner and Pelisse.)						
Pell, Henry W., Rome, N. Y. Spring-coupling for vehicles	342,533	May 25	2186	579	35	934
Pelletier, Charles, Cussy-les-Forges, France. Ball-calculator	345,445	July 13	904	226	36	168
Peloubet, Francis W., Newark, N. J. Walking doll	335,302	Feb. 2	301	80	34	495
Pelton, George M., Belmont, N. Y. Feed mechanism for saw-mill carriages	351,202	Oct. 19	1573	413	37	301
Pelton, Jeremiah M. (See Absterdam, John, assignor.)						
Pemberthy, James R., *et al.* (See Wolfertz, Peter, assignor.)						
Pement, Edward, Esmond, Dak. Ter. Lathe-chuck	334,893	Jan. 26	1949	519	34	383
Pement, Edward, Esmond, Dak. Ter. Lathe-chuck	335,619	Feb. 9	746	199	34	581
Penberthy Injector Company. (See Penberthy, William, assignor.)						
Penberthy, William, Leadville, Colo., assignor to Penberthy Injector Company, Detroit, Mich. Steam-injector	343,139	June 1	528	134	35	1102
Pendergast, John, Franklin, Mass. Harness-pad	335,477	Feb. 2	537	140	34	537
Pendexter, Edward F., Milford, Mass. Car-coupling	341,684	May 11	1000	264	35	701
Pendleton, John H., *et al.* (See Weber, Theodor R. A., assignor.)						
Pendleton, John H., Brooklyn, assignor to himself, C. and A. H. Tiers, R. I. Sloan, L. Moss, New York, N. Y., and T. Nast, Morristown, N. J. Traction device for cable railways	341,501	May 11	733	197, 198	35	649
Pendleton, John H., Brooklyn, assignor to himself, C. and A. H. Tiers, R. I. Sloan, L. Moss, New York, N. Y., and T. Nast, Morristown, N. J. Elevated-railway structure	342,459	May 25	2075	547, 548	35	915
Pendleton, John H., Brooklyn, assignor to himself, C. and A. H. Tiers, R. I. Sloan, L. Moss, New York, N. Y., and T. Nast, Morristown, N. J. Regulator for revolving shafts	345,394	July 13	829	208	36	154
Pendleton, John H., Brooklyn, assignor to himself, C. and A. H. Tiers, New York, N. Y. Valve-gear	349,898	Sept. 28	1870	483	36	1421
Pendleton, John H., Brooklyn, assignor to himself, C. and A. H. Tiers, R. I. Sloan, L. Moss, New York, N. Y., and T. Nast, Morristown, N. J. Traction device for cable railways	350,078	Sept. 28	2118	548, 549	36	1467
Pendleton, John H., Brooklyn, and C. Tiers, assignors to themselves, A. H. Tiers, R. I. Sloan, L. Moss, New York, N. Y., and T. Nast, Morristown, N. J. Mechanism for actuating the clutch and brake in cable railways	351,124	Oct. 19	1464	383, 384	37	280
Pendleton, John M., New York, N. Y. System for regulating and controlling electric motors	343,393	June 8	927	232	35	1182
Pendleton, John M., New York, N. Y. System for regulating and controlling electric motors	343,394	June 8	931	232	35	1183
Pendleton, John M., assignor to Equitable Electric Company, New York, N. Y. System for controlling secondary-battery circuits	343,392	June 8	925	231, 232	35	1182
Pendley, William, Ludville, assignor of one-half to J. G. B. Erwin, Erwin, Ga. Cultivator	353,498	Nov. 30	2487	664	37	956
Penfield, Edwin H., Santa Barbara, Cal. Farm-gate	338,869	Mar. 30	2716	714	34	1442
Penfield, Edwin H., Santa Barbara, Cal. Farm-gate	339,459	Apr. 6	498	121	35	92
Penfield, James W., *et al.* (See Hengesbach, Frank, assignor.)						
Penfield, James W., *et al.* (See Hopkins, Henry R., assignor.)						
Penfield, Raymond C., *et al.* (See Hengesbach, Frank, assignor.)						
Penfield, Raymond C., *et al.* (See Hopkins, Henry R., assignor.)						
Penfold, Alexander D., New York, N. Y. Case and package seal	352,000	Nov. 2	396	108	37	532
Penhorwood, Thomas, Millwood, Ohio. Horseshoe	348,861	Sept. 7	432	116	36	1127
Peninsular Novelty Company. (See Doolittle, George, assignor.)						
Peninsular Novelty Company. (See Vinton, John H., assignor.)						
Penley, Julia, Bangor, Me. Dress-chart	337,016	Mar. 2	185	49	34	958
Penman, Lancelot T., *et al.* (See Penman, William, assignor.)						
Penman, William, assignor to himself, L. T. Penman, and W. Gibson, Gateshead-on-Tyne, county of Durham, England. Mold for casting chains	354,732	Dec. 21	1584	413	37	1309
Penn, George W., Onawa, Iowa, assignor of one-half to O. G. Stowell, Delavan, Wis. Windmill	355,203	Dec. 28	2249	594	37	1448
Penn Hardware Company. (See Heizmann, C. Raymond, assignor.)						
Penn, Worden P., St. Louis, Mo. Grain-drill	336,427	Feb. 16	1929	506	34	707
Pennal, Robert A., Bigby Fork, Miss. Fertilizer-distributer	348,862	Sept. 7	433	116	36	1127
Pennel, William H. (See Brown, William, assignor.)						
Pennell, Lloyd W., Braintree, Mass., assignor to Tarbox Time Register Company, Portland, Me. Watchman's time-detector	338,292	Mar. 23	1902	500, 501	34	1292
Pennell, Lloyd W., Braintree, Mass., assignor to Tarbox Time Register Company, Portland, Me. Circuit-controlling device for watchmen's time-recorders	338,293	Mar. 23	1904	501	34	1293
Penner, Herman, Milwaukee, Wis. Feather-sorter	335,144	Feb. 2	63	17	34	452

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Penney, Edgar. (See Frick and Penney.)						
Penney, Edgar, Waynesborough, Pa. Incased gearing	333,542	Jan. 5	62	17, 18	34	14
Penney, Edgar, Waynesborough, Pa. Traction-engine	334,078	Jan. 26	2062	550	34	402
Penney, Joseph, Grand Rapids, Mich. Pivotal support for mirrors	344,854	July 6	79	20	36	15
Penney, Joseph, Grand Rapids, Mich. Wash-stand and commode	347,193	Aug. 10	993	265	36	656
Penniman, Arthur C., San José, Cal. Fruit-evaporator	349,450	Sept. 21	1256	325	36	1294
Pennington, John. (See Stone and Pennington.)						
Pennock, Frederick M. (See Sharp and Pennock.)						
Pennock, Frederick M., Kennett Square, Pa. Road-grader	336,821	Feb. 23	2467	648	34	901
Pennock, Samuel. (See Sharp and Pennock.)						
Pennock, Samuel, assignor to American Road Machine Company, Kennett Square, Pa. Road-grader	344,197	June 22	2043	523	35	1399
Pennock & Sons Company, S. (See Cook, Hiram, assignor.)						
Pennock, William C., Cardington, Ohio. Boiler	334,277	Jan. 12	1125	302	34	217
Penrod, John F., Blairsville Intersection, Pa. Railway-switch	353,708	Dec. 7	80	22	37	1021
Penrod, John F., assignor of one-half to W. N. Hayes and S. C. Young, Blairsville Intersection, Pa. Railway-frog	351,884	Nov. 2	221	62	37	499
Pentreath, John, Yonkers, N. Y. Plow	354,215	Dec. 14	836	222	37	1166
Pentucket Variable Stitch Sewing Machine Company. (See Woodward, Erastus, assignor.)						
Peoble, Charles W., Troy, N. Y. Folding bedstead	352,568	Nov. 16	1172	316	37	692
People's Telephone Company. (See Drawbaugh, Daniel, assignor.)						
Pepé, Guiseppe, Walworth, county of Surrey, England. Apparatus for drying stereotype-matrices	334,544	Jan. 19	1491	399	34	289
Pepper, William H., Lake Village, N. H. Circular-knitting machine	346,604	Aug. 3	195	52, 53	36	498
Pepper, William H., Lake Village, N. H. Circular-knitting machine	347,505	Aug. 17	1440	382, 383	36	746
Pepper, William H., and A. T. L. Davis, assignors to J. A. Burleigh, Lake Village, N. H. Circular-knitting machine	350,466	Oct. 5	507	141, 142, 143, 144	37	97
Peppler, Thomas. (See Carhart, David V., assignor.)						
Pepys, William P. (See Mays and Pepys.)						
Percival, Charles F., Barton, Vt. Pillow-sham holder	334,278	Jan. 12	1126	302	34	217
Percival, William H., 23 Westbourne Villas, county of Middlesex, England. Apparatus for automatically extinguishing fires	347,194	Aug. 10	994	265	36	656
Percy, George W., *et al.* (See Hildreth, George, assignor.)						
Percy, George W. (See Jones, William A., assignor.)						
Percy, Harry C., Natchitoches, La. Car-starter	350,989	Oct. 19	1285	337	37	248
Peregrine, John M. (See Romans and Peregrine.)						
Peregrine, Seymour W., Minneapolis, Minn. Opera-chair	339,921	Apr. 13	1182	293	35	217
Perfection Tucker Company. (See Conchois, Garrett J., assignor.)						
Perin, Samuel H. (See Renshaw and Perin.)						
Perkins, Alfred H., Leominster, Mass. Foot-tub	335,838	Feb. 9	1062	280	34	638
Perkins, Benjamin F., Holyoke, Mass. Paper-calendering roll	355,026	Dec. 28	1991	524	37	1397
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Fusible cut-out for electric circuits	348,048	Aug. 24	2227	596	36	900
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Fusible cut-out for incandescent electric lamps	348,049	Aug. 24	2227	596	36	900
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Electrolier	349,516	Sept. 21	1344	349	36	1312
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Underground conduit for electrical conductors	349,739	Sept. 28	1659	428, 429	36	1378
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Coupling device for electrical conductors	349,809	Sept. 28	1758	454	36	1397
Perkins, Charles H., Providence, R. I. Horseshoe-machine	338,870	Mar. 30	2718	714, 715	34	1442
Perkins, Charles H., Providence, R. I. Horseshoe-machine	338,871	Mar. 30	2725	716, 717	34	1443
Perkins, Charles H., Providence, R. I. Horseshoe-machine	340,350	Apr. 20	1807	463, 464	35	337
Perkins, Charles H., Providence, R. I. Farrier's anvil	352,261	Nov. 9	783	210	37	610
Perkins, Charles L. B., Worcester, Mass. Cleaning-tool	341,938	May 18	1332	356	35	772
Perkins, Daniel C., Fairfield, Me. Rein-holder	349,517	Sept. 21	1345	350	36	1312
Perkins, Daniel C., and B. F. Sutton, Providence, R. I., assignors, by mesne assignments, to E. Parker, J. H. Stearns, Brooklyn, N. Y., and said B. F. Sutton. Syringe	342,131	May 18	1596	426	35	821
Perkins, Duane T., assignor of one-third to E. W. Seeger, Springfield, Mass. Air-brake	345,537	July 13	1053	268, 269	36	195
Perkins, Floyd N., Cleveland, Ohio. Combined latch and lock	353,374	Nov. 30	2300	614	37	921
Perkins, Francis B., Boston, Mass. Elevator	349,175	Sept. 14	875	224	36	1212
Perkins, Francis B., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Machine for spacing watch-dials	339,922	Apr. 13	1184	294	35	218
Perkins, Francis C. (See Kelley, Charles H., assignor.)						
Perkins, George H., Philadelphia, Pa. Bung for cans	355,025	Dec. 28	1989	523	37	1397
Perkins, George H., and G. E. Transom, Philadelphia, Pa.; said Transom assignor to said Perkins. Implement for inserting bungs in cans	355,204	Dec. 28	2252	594	37	1449
Perkins, Henry H., Las Vegas, N. Mex. Ter. Seal-lock	340,351	Apr. 20	1811	464	35	337
Perkins, John B., Taunton, Mass. Shawl-strap	349,899	Sept. 28	1872	484	36	1421
Perkins, John M., South Bend, Ind. Slat-iron for vehicle-tops	333,885	Jan. 5	529	143	34	99
Perkins, John M., South Bend, Ind. Bow-socket for vehicle-tops	334,979	Jan. 26	2064	550	34	403
Perkins, John M., South Bend, Ind. Carriage-bow socket	337,614	Mar. 9	996	256	34	1112
Perkins, John M., South Bend, Ind. Vehicle-dash	337,990	Mar. 16	1499	380	34	1208
Perkins, Joseph, San Francisco, Cal. Hose-reel and irrigator	340,676	Apr. 27	2259	595	35	423
Perkins, Louis W., *et al.* (See Latham, Ephraim, assignor.)						
Perkins & Mason. (See Weightman, David B., assignor.)						
Perkins, Michael R., Portsmouth, N. H. Railway-rail chair	344,920	July 6	174	45	36	32
Perkins, Paul B., North Springfield, Mo. System of water-works	335,303	Feb. 2	302	80	34	495
Perkins, Russell B., assignor to E. Miller & Co., Meriden, Conn. Shade-holder	339,923	Apr. 13	1187	295	35	218
Perkins, Russell B., assignor to E. Miller & Company, Meriden, Conn. Suspension device for lamps	342,132	May 18	1597	426, 427	35	821
Perkins, William M., La Fontaine, Ind. Grain weighing and registering scale	343,844	June 15	1550	393	35	1302
Perkins, Willis J., Grand Rapids, Mich. School seat and desk	334,802	Jan. 26	1840	490, 491	34	363
Perkins, Willis J., Grand Rapids, Mich. Shingle-sawing machine	342,534	May 25	2187	579	35	934
Perkins, Willis J., Grand Rapids, Mich. Saw	342,535	May 25	2189	579	35	934

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Perkins, Willis J., Grand Rapids, Mich. Log-handling mechanism	342,536	May 25	2190	580	35	935
Perkins, Willis J., Grand Rapids, Mich. Type-writing machine	347,373	Aug. 17	1254	333	36	712
Perkins, Willis J., Grand Rapids, Mich. Shingle-sawing machine	348,050	Aug. 24	2229	596, 597, 598	36	900
Perkins, Willis J., Grand Rapids, Mich. Carriage for shingle-sawing machines	350,767	Oct. 12	936	252	37	178
Perley, John L., Enosburg, Vt. Water-wheel	348,997	Sept. 14	625	163	36	1167
Perrigo, Edward L. (See Hamilton and Perrigo.)						
Perrigo, Ephraim H., assignor, by mesne assignments, to said Perrigo and J. Comfort, Manchester, N. H. Bobbin-winder	348,412	Aug. 31	2751	739	36	1006
Perrin Frères. (See Raymond, Pierre A., assignor.)						
Perrin, Josiah F., *et al.* (See Waterhouse, George C., assignor.)						
Perrin, Thomas J., assignor of one-half to W. Perrin, Springfield, Ohio. Lawn-mower	340,240	Apr. 20	1640	415, 416	35	305
Perrin, Thomas J., Brooklyn, N. Y., assignor to C. P. Huntington, Greenville, Miss. Multiple switch-board	348,578	Sept. 7	62	18	36	1059
Perrin, Thomas J., Brooklyn, N. Y., assignor to C. P. Huntington, Greenville, Miss. Multiple switch-board	348,579	Sept. 7	64	19	36	1059
Perrin, Thomas J., Brooklyn, N. Y., assignor, by mesne assignments, to National Improved Telephone Company, New Orleans, La. Telephonic apparatus	347,374	Aug. 17	1257	333	36	712
Perrin, William. (See Perrin, Thomas J., assignor.)						
Perring, Merrick E., Berrien Springs, Mich. Feeder for thrashing and other machines	336,153	Feb. 16	1529	403	34	725
Perron, Clement, *et al.* (See Bonneau, Nelson, assignor.)						
Perrott, Thomas A. (See Anderson, Isaac, assignor.)						
Perry, Alexander, Fairfield Road Bow, county of Middlesex, A. W. Gillman, and S. Spencer, Castle Brewery, St. George's Road, Southwark, county of Surrey, England. Process of and apparatus for preparing grain or cereals to be used in brewing and distilling	340,677	Apr. 27	2260	595	35	423
Perry, Alonzo H., assignor one-fourth to R. T. Colston, Louisville, Ky. Tire-tightener	340,352	Apr. 20	1812	465	35	338
Perry, Austin, Florence, Kans. Clasp	337,862	Mar. 16	1315	341	34	1175
Perry, Benjamin F., *et al.* (See Perry, Richard, assignor.)						
Perry, Charles A., assignor to G. W. Rader and M. Schmidt, New York, N. Y. Mold for making clay pipes, &c.	354,216	Dec. 14	837	222	37	1166
Perry, David, *et al.* (See Perry, Richard, assignor.)						
Perry, David L., Mount Solon, Va. Washing-machine	333,886	Jan. 5	530	144	34	99
Perry, Edward L., Paterson, N. J., assignor to himself and H. S. Winans, Long Island City, N. Y. Rod-packing	339,924	Apr. 13	1188	295	35	218
Perry, Edward L., Paterson, N. J., assignor to himself and H. S. Winans, Long Island City, N. Y. Rod-packing	339,925	Apr. 13	1188	295	35	218
Perry, Edward L., Paterson, N. J., assignor to himself and H. L. Winans, Long Island City, N. Y. Sheet formed of india-rubber or other elastic water-proof material	347,733	Aug. 17	1776	473	36	808
Perry, Frank H. (See Winter, Oscar O., assignor.)						
Perry, Frederick A. S. (See Conner and Perry.)						
Perry, Frederick A. S., New York, N. Y. Shutter-fastener	337,076	Mar. 2	257	68	34	974
Perry, George W., Burlington, Ill. Wire-stretcher	341,273	May 4	420	115	35	582
Perry, J. Monroe, Oakland, Cal. Fly-trap	339,685	Apr. 13	870	213	35	160
Perry, James L., Watertown, Wis. Sand-paper cylinder	346,680	Aug. 3	289	79	36	517
Perry, James L., Watertown, Wis. Abrading-cylinder	346,681	Aug. 3	290	79	36	517
Perry, James L., Watertown, Wis. Wood-polishing machine	347,125	Aug. 10	895	237, 238, 239	36	637
Perry, James M., Sharon, and A. Gordon, Pittsburg, Pa. Machine for rounding and polishing metal rods	346,943	Aug. 10	637	171	36	591
Perry, John G., and T. W. Wright, Wakefield, R. I.; said Wright assignor to said Perry. Tobacco-cutter	347,824	Aug. 24	1915	509	36	843
Perry, Joseph R., Wilkes-Barré, Pa. Violin tail-piece	336,428	Feb. 16	1930	506	34	798
Perry, Marion S., *et al.* (See Perry, Richard, assignor.)						
Perry, Moses H., *et al.* (See Perry, Richard, assignor.)						
Perry, Nelson W. (See Dudley and Perry.)						
Perry, Nelson W., Norwood, assignor of one-half to H. J. Groesbeck, Cincinnati, Ohio. Detector for marsh and other hydrocarbon gases	350,388	Oct. 5	378	109	37	76
Perry, Noah C., Chester, Conn. Tool-handle	346,219	July 27	2020	521	36	388
Perry, Noah C., and G. S. Gladding, Chester, Conn.; said Perry assignor to said Gladding. Device for locking ends of a jointed rod	346,605	Aug. 3	197	53	36	498
Perry, Reuben W., Saundersville, Mass. Pie-crust clamp	340,152	Apr. 20	1505	380	35	282
Perry, Reuben W., Grafton, assignor of one-half to J. W. Stockwell, Sutton, Mass. Bit-holder	354,485	Dec. 14	1208	324	37	1233
Perry, Richard, Dunn, assignor of six-sevenths to D. and W. T. Perry, Bethany, B. F. Perry, Todd's Point, M. H. and S. B. Perry, Decatur, Ill., and M. S. Perry, Stratton, Nebr. Car-coupling	352,569	Nov. 16	1173	316	37	692
Perry, Safford G., New York, N. Y. Dental-engine attachment	343,845	June 15	1552	393	35	1303
Perry, Samuel A., San Francisco, Cal. Machine for making picture-moldings	341,049	May 4	104	30, 31	35	524
Perry, Samuel B., *et al.* (See Perry, Richard, assignor.)						
Perry, Talbot H., Wilkes Barré, Pa. Piano-case	353,583	Nov. 30	2609	696	37	979
Perry, Thomas. (See Cowdery, Perry, and Hyslop.)						
Perry, Thomas H., Bloomington, Ill. Railway-frog	352,066	Nov. 2	486	131	37	550
Perry, William A., *et al.* (See Bicknell, William A. P., assignor.)						
Perry, William A., *et al.* (See Jenkins, Frank W., assignor.)						
Perry, William H., Sharon, Pa. Grooved and barbed rod	333,887	Jan. 5	530	144	34	99
Perry, William H., Sharon, Pa. Roll for rolling barbed rods	333,888	Jan. 5	531	144	34	99
Perry, William H., Sharon, Pa. Nail or spike	333,889	Jan. 5	532	144	34	100
Perry, William L., Chelsea, assignor, by mesne assignments, of one-half to Blount & Kimpton, Boston, Mass. Foot-power machine	338,437	Mar. 23	2113	553	34	1328
Perry, William T., *et al.* (See Perry, Richard, assignor.)						
Perry, William V., Chicago, Ill. Glass barrel	336,344	Feb. 16	1816	476	34	776
Persch, Flora B. (See Loesner and Persch.)						
Pershall, James R., Lawrence, Kans. Refrigerator	345,171	July 6	512	131	36	93
Persohn, John W., McKinney, Tex. Churn	334,720	Jan. 19	1735	462, 463	34	335
Peslin, John L., Appleton, Wis. Smoke-consuming furnace	348,863	Sept. 7	434	116	36	1128
Pessano, Antonio C., assignor to G. V. Cresson, Philadelphia, Pa. Shaft-hanger	335,839	Feb. 9	1063	281	34	638
Pessano, Antonio C., assignor to G. V. Cresson, Philadelphia, Pa. Drip-cup and self-oiling attachment for bearings	335,840	Feb. 9	1064	281	34	639
Pessenger, John S., Brooklyn, N. Y. Hot-air furnace	346,769	Aug. 3	392	108	36	537
Pessenger, John S., Brooklyn, N. Y. Heating-furnace	346,770	Aug. 3	393	108	36	537

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Peteler, Francis, assignor to Peteler Portable Railway Manufacturing Company, Minneapolis, Minn. Portable railway-track	348,533	Aug. 31	2932	788	36	1040
Peteler Portable Railway Manufacturing Company. (See Peteler, Francis, assignor.)						
Peter, George, New York, N. Y. Scraper-sharpener	347,506	Aug. 17	1442	383	36	747
Petermann, Jean, Offenbach-on-the-Main, Germany, assignor to Liebenroth, Von Auw & Co., New York, N. Y. Photograph or card holder	353,326	Nov. 30	2234	598	37	908
Peters & Calhoun Company. (See Webster, William S., assignor.)						
Peters, Carl A. F., assignor of one-half to J. Ledlie, St. Louis, Mo. Earth-auger	352,001	Nov. 2	397	108	37	532
Peters, E. L. (See Hubler, Harvey, assignor.)						
Peters, Franz B., Lincoln, Nebr. Fire-escape	354,217	Dec. 14	838	222, 223	37	1167
Peters, Friedrich H. A., Detroit, Mich. Hoisting-machine	350,268	Oct. 5	228	67	37	47
Peters, George M., Columbus, Ohio. Tool for handling vehicle-bodies	343,195	June 8	612	152	35	1127
Peters, Jacob H., Hamburg, Germany. Heel for boots or shoes	343,062	June 1	407	104	35	1080
Peters, James W., John Adams, Cal. Mold-board for plows	349,404	Sept. 21	1191	308	36	1282
Peters, James W., and J. H. Skinner, Troy, Ohio. Cultivator	338,294	Mar. 23	1905	501	34	1293
Peters, John C., assignor to Horton Manufacturing Company, Fort Wayne, Ind. Washing-machine	337,700	Mar. 9	1103	284	34	1130
Peters, Joseph, *et al.* (See Rhyne, James T., assignor.)						
Peters, Samuel F., London, Ontario, Canada. Window-frame	353,037	Nov. 23	1826	491	37	823
Peters, William C., Hicksville, N. Y. Cultivator	334,045	Jan. 12	762	209	34	150
Petersen, Andreas F., Nykjöbing, Denmark. Sideboard-corkscrew	352,659	Nov. 16	1302	351	37	716
Petersen, Charles J. (See Blackman, Ebenezer, assignor.)						
Petersen, Charles J., Port Chester, N. Y. Suspension device	335,478	Feb. 2	537	141	34	537
Petersen, Charles J., Port Chester, N. Y. Suspension device	345,172	July 6	514	132	36	93
Petersen, Eduard A. C., Chicago, Ill. Baker's oven	336,741	Feb. 23	2361	617	34	881
Petersen, Eduard A. C., Chicago, Ill. Illuminating device for bakers' ovens	354,807	Dec. 21	1687	445	37	1329
Petersen, Jens M., Clinton, Iowa. Machine for fitting band-saws for brazing	341,939	May 18	1333	356	35	772
Petersen, Marcus H., Hamburg, Germany. Horseshoe	349,234	Sept. 14	960	245	36	1228
Petersen, Nicolai, Charleston, S. C. Mosquito-canopy for bedsteads	341,274	May 4	422	115	35	583
Petersen, Thorvald N., assignor of one-half to L. Ostermeyer, Boston, Mass. Velocipede	342,972	June 1	277	72	35	1056
Peterson, Albert E., *et al.* (See Whiting, Henry W., assignor.) (Reissue.)						
Peterson, Benjamin W., and J. W. Connelly, Wheeling, W. Va. Mortising-chisel	339,806	Apr. 13	1029	255	35	188
Peterson, Charles. (See Eves, Frank, assignor.)						
Peterson, John, Watson, Mich. Plow	335,620	Feb. 9	748	199	34	581
Peterson, John, San Francisco, Cal. Parlor fire-proof safe	343,395	June 8	932	233	35	1183
Peterson, Lewis. (See Dykes, Hugh J., assignor.)						
Peterson, Michael W. (See Thorson and Peterson.)						
Peterson, Nicholas P., Chicago, Ill. Blind-stapling machine	335,304	Feb. 2	305	81	34	495
Peterson, Niels C. (See Guthrie and Peterson.)						
Peterson, Peter S. (See Thorson and Peterson.)						
Peterson, William F. (See Caldwell and Peterson.)						
Petithomme, Joseph, Sacramento, Cal. Car-axle box	344,401	June 29	2324	599	35	1458
Petitt, Marshall. (See Tribble, Petitt, and Coats.)						
Petree, John M., assignor of one-half to F. L. Palm, Canton, Ohio. Wash-board	350,015	Sept. 28	2034	525	36	1450
Petrie, John, Jr., and J. Fielden, Rochdale, county of Lancaster, England. Machine for drying wool	337,863	Mar. 16	1315	342	34	1175
Petru, Emanuel, and J. Zidek, Chicago, Ill. Bridge-gate	344,855	July 6	80	20, 21	36	15
Petry, Charles J. (See Smith, Steinmetz, and Petry.)						
Pettee Machine Works. (See Higgins and Whitworth, assignors.)						
Pettengill, Howard M. (See Weddell, John W., assignor.)						
Pettengill, Walter E., Peterborough, N. H. Inside caliper	350,768	Oct. 12	937	252	37	178
Petterson, Ludwig, assignor to Chicago Novelty Tin Can Manufacturing Company, Chicago, Ill. Can	350,269	Oct. 5	230	67	37	48
Pettet, Miles, Wellington, Ontario, Canada. Car-coupling	336,259	Feb. 16	1698	442	34	753
Pettet, Miles, and S. Noxon, Wellington, Ontario, Canada. Car-coupling	336,260	Feb. 16	1699	443	34	754
Pettibone, Asa G., *et al.* (See Anderson, James J., assignor.)						
Pettibone, John B., Farmington, Mich. Carriage top	335,841	Feb. 9	1064	281	34	639
Pettibone, John B., Farmington, Mich. Carriage-top	345,538	July 13	1058	269	36	196
Pettibone, W. H. (See Whited, Charles W., assignor.)						
Pettit, Edward E., Belvidere, Ill. Cabinet	347,638	Aug. 17	1650	437	36	786
Pettit, John H. (See Darling, Bernard P., assignor.)						
Petty, James K., Omaha, Nebr. Trestle and scaffold	350,153	Oct. 5	79	23	37	17
Petz, John, assignor to himself, J. Phillips, and E. W. Rowley, Detroit, Mich. Machine for making bungs	335,955	Feb. 9	1224	326	34	667
Petzold, Charles G., assignor of one-half to W. D. Hartshorne, Lawrence, Mass. Loom-shuttle	349,284	Sept. 14	1016	260	36	1239
Pevey, Abiel, Lowell, Mass. Railway-switch alarm	333,665	Jan. 5	218	60	34	43
Pevey, Amos A., *et al.* (See Drew, Charles E., assignor.)						
Pevey, Charles K., Worcester, Mass. Corset-fastening	354,218	Dec. 14	839	223	37	1167
Peyton, Joseph I., administrator. (See Jenkin, Fleeming.)						
Pfannkuche, Alfred. (See Pfannkuche, Gustav and A.)						
Pfannkuche, Alfred, New York, N. Y., assignor to Forest City Carbon Manufacturing Company, Cleveland, Ohio. Machine for making carbons for electric lamps	345,539	July 13	1058	269	36	196
Pfannkuche, Gustav, assignor to Schuyler Electric Light Company, Hartford, Conn. Electric-arc lamp	348,927	Sept. 7	529	139, 140	36	1143
Pfannkuche, Gustav and A., New York, N. Y. Induction-coil	343,602	June 15	1218	306, 307	35	1242
Pfannkuche, Gustav and A., New York, N. Y. Distribution of electric energy	343,603	June 15	1221	307	35	1242
Pfaudler, John M., Rochester, N. Y. Hair-clipper	351,885	Nov. 2	222	63	37	499
Pfauschmidt, Dodge & Co. (See Johnston, John S., assignor.)						
Pfeifer, John, Philadelphia, Pa. Scoop	340,816	Apr. 27	2450	644	35	458
Pfeiffer, Oscar J., Denver, Colo. Stretcher	354,579	Dec. 21	1355	359	37	1267
Pfeiffer, Philipp. (See Rowlett, Webster, and Pfeiffer.)						
Pfeil, Henry S., assignor to R. M. Popham, Philadelphia, Pa. Railway and other signal	349,285	Sept. 14	1017	260	36	1240
Pfennig, Richard. (See Pischon and Pfennig.)						
Pfenning, Carl A., Barmen-Rittershausen, Prussia, Germany. Button-machine	350,211	Oct. 5	166	48	37	34
Pfenning, Carl A., Barmen-Rittershausen, Prussia, Germany. Button	351,792	Nov. 2	89	25	37	475
Pfingst, Louis, Pullman, assignor to G. M. Pullman, Chicago, Ill. Spring-holder for lamp-chimneys	347,375	Aug. 17	1258	333	36	713
Pfingst, Louis, Pullman, assignor to G. M. Pullman, Chicago, Ill. Pivotal support for sashes	351,936	Nov. 2	305	85	37	513
Pfingst, Louis, New York, N. Y., assignor to himself, W. P. Williams, and E. C. Tracy, Chicago, Ill. Car-axle box	354,219	Dec. 14	841	223	37	1167

Alphabetical list of patentees—Continued

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Pfingsten, Carl G., New York, N. Y. Suspension device for express-cards &c.	354,071	Dec. 7	608	167	37	1117
Pfister, Philip C. (See Black and Pfister.)						
Pfleger, Frank P., Joliet, Ill. Stretcher-frame for paintings	335,383	Feb. 2	415	107	34	516
Pfleging, Jacob, New York, N. Y. Lead for setting stained glass	340,353	Apr. 20	1814	465	35	338
Pflueger, Ernest F., Akron, Ohio. Rosette for harness	339,926	Apr. 13	1189	296	35	219
Pflueger, Ernest F., Akron, Ohio. Fishing-float and connection therefor	351,523	Oct. 26	2059	534	37	396
Phalan, Daniel G., Woonsocket, R. I., assignor of one-half to T. A. Tallon, Boston, Mass. Boot	348,233	Aug. 31	2513	675	36	958
Phares, William A., Fowler, Ind. End-gate	354,341	Dec. 14	1025	273	37	1200
Pheeney, John E., Owatonna, Minn. Signal apparatus	334,980	Jan. 26	2065	551	34	403
Phelan, Edmund T., Cambridge, Mass. Book-cutting machine	350,318	Oct. 5	290	83	37	59
Phelan, John T., Cambridge, Mass. Apparatus for detecting leaks in soil-pipes	339,206	Apr. 6	131	35	35	26
Phelps, Andrew J., *et al.* (See Marshall, George, assignor.)						
Phelps, Arthur M., Seabrook, Md. Telephone	344,983	July 6	263	66	36	47
Phelps, Asa W. (See Russell and Phelps.)						
Phelps, Charles B. and J. B., Wernersville, Pa. Sheep-shearing table	352,262	Nov. 9	786	210	37	610
Phelps, Charles H. (See Olds, Alonzo F., assignor.)						
Phelps, Eugene M., Lynn, Mass. Button-hole sewing-machine	344,678	June 29	2693	699	35	1527
Phelps, Frank O., Blue Island, Ill. Spring-lock	347,957	Aug. 24	2115	563	36	879
Phelps, George H., *et al.* (See Preston, Charles A., assignor.)						
Phelps, George H., *et al.* (See Wardwell, William S., assignor.) (Reissue.)						
Phelps, George H., Newton, Mass. Pencil-sharpener	334,803	Jan. 26	1842	491	34	363
Phelps, Henry, Readville, Mass. Safety-pocket	341,275	May 4	423	115	35	583
Phelps, Ira M., Shasta, Cal., assignor of five one-hundredths to F. Hugle, C. Walter, and T. C. Brecht, Washington, D. C. Paper currency	341,429	May 4	633	173	35	620
Phelps, J. Belle. (See Phelps, Charles B. and J. B.)						
Phelps, Lucius J., New York, N. Y. Duplexing railway-telegraphs	351,524	Oct. 26	2060	535	37	396
Phelps, Lucius J., New York, N. Y. Duplexing railway-telegraphs	351,525	Oct. 26	2063	535	37	397
Phelps, Lucius J., assignor to Railway Telegraph Company, New York, N. Y. Polarized relay	334,185	Jan. 12	968	262	34	187
Phelps, Lucius J., assignor to Railway Telegraph Company, New York, N. Y. Railway-car telegraph	334,186	Jan. 12	970	262, 263	34	187
Phelps, Lucius J., assignor to Railway Telegraph Company, New York, N. Y. Railway-car telegraph	334,187	Jan. 12	975	263	34	188
Phelps, Lucius J., assignor to Railway Telegraph Company, New York, N. Y. Railway-car telegraph	334,188	Jan. 12	977	263	34	188
Phelps, Lucius J., assignor to Railway Telegraph Company, New York, N. Y. Railway-car telegraph	334,189	Jan. 12	979	264	34	189
Phelps, Lyman E., and R. K. Swift, assignors of one-third to J. J. A. Zeller, Rochelle, Ill. Disk-harrow	337,017	Mar. 2	186	49	34	959
Phelps, Richard N. R., New York, N. Y., assignor to New York Safety Gage Company. Float for water-gages	340,456	Apr. 20	1937	498	35	360
Phelps, Scott I., Cincinnati, Ohio. Molding-polisher	337,515	Mar. 9	879	223	34	1090
Phelps, Thomas V., Worcester, Mass. Fence-wire stretcher	335,842	Feb. 9	1065	281, 282	34	639
Phenix Iron Foundry. (See Matteson, Rufus S., assignor.)						
Phenix, William, assignor of one-half to G. Judge, Chicago, Ill. Carrying traction-cables around curves	337,786	Mar. 9	1207	314	34	1148
Philer, Charles E., Jesup, Iowa. Animal-poker	345,600	July 13	1142	292	36	211
Philadelphia Textile Machinery Company. (See Proctor and Knowles, assignors.)						
Philbrick, Andrew J. (See Wood and Philbrick.)						
Philbrick, Andrew J., Beverly, Mass., assignor to Pope Manufacturing Company, Hartford, Conn. Bicycle-stand	350,990	Oct. 19	1286	338	37	248
Philbrick, Charles, Grundy Centre, Iowa. Heating-stove	354,220	Dec. 14	842	223, 224	37	1167
Philbrick, George E., Manchester, N. H. Syringe	343,252	June 8	699	173	35	1142
Philbrick, Josiah J., Birmingham, Ala. Barrel-making machine	334,607	Jan. 19	1575	420	34	305
Philbrook, Emmeline W., Boston, Mass. Clothes-hook	335,237	Feb. 2	217	57	34	479
Philippi, Adile C., New Orleans, La. Attachment for cooking-stoves	349,118	Sept. 14	804	204	36	1198
Philippi, Jacob, assignor to C. M. Lamline, K. and I. Kaufmann, New York, N. Y. Lamp-extinguisher	340,455	Apr. 20	1938	498	35	360
Philipps, Martin, Strykersville, N. Y. Transposing key-board for musical instruments	354,733	Dec. 21	1586	419	37	1309
Philips, Ferdinand, Philadelphia, Pa. Bolt-heading machine	334,464	Jan. 19	1382	373	34	271
Philips, Ferdinand, Philadelphia, Pa. Bolt-heading machine	334,465	Jan. 19	1385	374	34	271
Philips, Ferdinand, Philadelphia, Pa. Apparatus for burning gaseous fuel	337,516	Mar. 9	880	223, 224	34	1090
Philips, Ferdinand, Philadelphia, Pa. Wire nail	353,427	Nov. 30	2383	636	37	936
Philips, Ferdinand, Philadelphia, Pa. Machine for heading bolts and rivets	353,584	Nov. 30	2610	696, 697	37	979
Philips, Ferdinand, Philadelphia, Pa. Wire-nail machine	353,585	Nov. 30	2613	697	37	980
Phillips, George W., Buffalo, N. Y. Pump	344,133	June 22	1951	498	35	1383
Phillips, Anson W., Fairfield, N. Y. Car-coupling	351,399	Oct. 26	1878	489	37	360
Phillips, Charles E., Rochester, N. Y., assignor to H. Rogers, trustee, Boston, Mass. Blade for rotary cutters	341,940	May 18	1334	356	35	772
Phillips, Charles H. assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Milling-machine	343,846	June 15	1553	393, 394	35	1303
Phillips, Cornelius J., New York, N. Y. Device for closing openings in pipes	345,073	July 6	384	97	36	70
Phillips, Cornelius J., New York, N. Y. Cold-chisel	349,119	Sept. 14	805	204	36	1198
Phillips, Darius T., Chicago, Ill. Corn-husker	342,807	June 1	43	12	35	1014
Phillips, Darius T., Chicago, Ill. Key-fastener	350,839	Oct. 12	1052	281	37	199
Phillips, Denzil, Cochranton, Pa. Animal-trap	335,039	Jan. 26	2152	553	34	418
Phillips, Denzil, Cochranton, Pa. Sheep-feeding rack	335,384	Feb. 2	417	107	34	516
Phillips, Edward L., *et al.* (See Phillips, Franklin, assignor.)						
Phillips, Ellen T., New York, N. Y. Bustle	353,881	Dec. 7	327	85	37	1067
Phillips, Elwood C., Richmond, Ind., assignor to A. Warren, St. Louis, Mo., and J. W. March, Cincinnati, Ohio. Fence-machine	343,604	June 15	1224	307, 308	35	1243
Phillips, Elwood C., Richmond, Ind., assignor of one-half to I. M. Brown, Cincinnati, Ohio. Signal-alarm and safety-gate for railway-crossings	351,336	Oct. 19	1746	459, 460	37	332
Phillips, Erbine C. (See Hovey and Phillips.)						
Phillips, Errett E., New Castle, Pa. Automatic danger-signal	352,263	Nov. 9	787	211	37	610
Phillips, F. T. (See Herron, John, assignor.)						
Phillips, Francis V., assignor to C. H. Smith and J. Hewitt, Chicago, Ill. Supporting device for sliding doors	345,988	July 20	1701	438	36	318
Phillips, Francis V., assignor of one-half to C. H. Smith and J. Hewitt, Chicago, Ill. Sash-cord guide	347,507	Aug. 17	1443	383	36	747

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Phillips, Francis V., assignor of one-half to C. H. Smith and J. Hewitt, Chicago, Ill. Sash-cord guide	347,508	Aug. 17	1444	384	36	747
Phillips, Francis V., assignor of two-thirds to C. H. Smith and J. Hewitt, Chicago, Ill. Sash-cord guide	347,509	Aug. 17	1446	384	36	747
Phillips, Franklin, assignor of three-fourths to E. L., G. H., and W. E. Phillips, Newark, N. J. Planing-machine-cushioning device	350,554	Oct. 12	635	174, 175	37	123
Phillips, Franklin, assignor of three-fourths to E. L., G. H., and W. E. Phillips, Newark, N. J. Planer-table-cushioning device	350,555	Oct. 12	637	175, 176	37	123
Phillips, George, Tilford, Ill. Head-rest	339,807	Apr. 13	1031	256	35	188
Phillips, George H., *et al.* (See Phillips, Franklin, assignor.)						
Phillips, Gilbert K., Westfield, Mass. Reclining-chair	336,662	Feb. 23	2262	590	34	862
Phillips, Isaac O., Brooklyn, N. Y. Self-adjusting turn-buckle	346,771	Aug. 3	394	109	36	538
Phillips, James R., Plainfield, N. J. Shoe-upper	351,066	Oct. 19	1387	364	37	266
Phillips, John, *et al.* (See Petz, John, assignor.)						
Phillips, John H., assignor of one-half to W. Davis, Wheeling, W. Va. Machine for forging horseshoe-nails	347,510	Aug. 17	1447	384, 385	36	747
Phillips, Mary, assignor to C. C. Carpenter, New York, N. Y. Bosom-form	334,721	Jan. 19	1736	463	34	335
Phillips, Oliver O., Allegheny, Pa. Brick-kiln	342,926	June 1	214	55	35	1044
Phillips, Robert E., and E. R. Shipton, London, county of Middlesex, England. Brooch or badge for clubs	350,079	Sept. 28	2122	549	36	1467
Phillips, Sydney A., New York, N. Y. Window-mirror	345,074	July 6	385	97	36	70
Phillips, Theodore, assignor of one-half to E. Egli, Whiting, Iowa. Washing-machine	333,666	Jan. 5	221	60	34	43
Phillips, Thomas C., Sedalia, Mo. Lamp-burner	347,126	Aug. 10	896	239	36	638
Phillips, Thomas, E. Bouchard, and T. Charbonneau, Worcester, Mass. Horseshoe	336,154	Feb. 16	1530	403	34	736
Phillips, Walter, Coventry, county of Warwick, England. Velocipede	350,080	Sept. 28	2124	549	36	1468
Phillips, William E., *et al.* (See Phillips, Franklin, assignor.)						
Phillips, William H., Bridgeton, N. J. Convertible chair and cot	352,067	Nov. 2	486	132	37	550
Phillips, William J. (See Shepard, Charles S., assignor.)						
Phillips, William P., Revere, Mass. Drop-feed lubricator	350,212	Oct. 5	167	48	37	34
Philp, John W., Humboldt, Tenn. Machine for manufacturing barrels	337,701	Mar. 9	1104	284, 285	34	1130
Philpott, James H., Rising City, Nebr. Sweat-pad for horse-collars	349,451	Sept. 21	1257	325	36	1294
Phinney, Charles E. (See Rumble, A. Carson, assignor.)						
Phipps, Edward H., New Haven, Conn. Punching-machine	340,817	Apr. 27	2451	645	35	458
Phipps, Thomas L., and W. Burman, Birmingham, county of Warwick, England, assignors to L. S. Lee, Philadelphia, Pa. Hair-clipper	335,956	Feb. 9	1227	326	34	668
Phipps, William, Milwaukee, Wis. Hot-air furnace	349,518	Sept. 21	1346	350	36	1312
Phipps, William N., Glenwood, Iowa. Cutter for stirring-plows and listers	343,196	June 8	613	152	35	1127
Phoenix, Charles A., Harford, N. Y. Door-check	343,605	June 15	1226	308	35	1243
Phoenix Glass Company. (See Tietz, Godfried A. J., assignor.)						
Piccard, Charles M., and L. H. Chappel, Dayton, Ohio. Thill-coupling	339,207	Apr. 6	132	35	35	26
Pickens, Adolphus. (See Judd and Pickens.)						
Pickering, Joseph M., Philadelphia, Pa. Brush-making machine	334,086	Jan. 12	892	225	34	101
Pickering, Philip, Boone, Iowa. Valve for operating air-brakes	334,466	Jan. 19	1388	374	34	272
Pickering, Richard, Cleveland, Ohio. Gas-pressure regulator	348,338	Aug. 31	2647	714	36	986
Pickering, Thomas R., Portland, Conn. Throttle-valve	341,345	May 4	523	144	35	599
Pickering, Thomas R., Portland, Conn. Throttle-valve	341,346	May 4	525	145	35	600
Pickersgill, John, Central City, Ky. Wagon-brake	341,685	May 11	1002	265	35	701
Picket, Orlando B., Danbury, Conn. Tongue-support	348,580	Sept. 7	65	19	36	1059
Pickles, George M., Sandhurst, Victoria, assignor to R. W. Forbes & Son, New York, N. Y. Thill-coupling	341,164	May 4	268	76	35	553
Pidgeon, George S., San Diego, Cal. Hydraulic motor	337,864	Mar. 16	1318	342, 343	34	1175
Pidgeon, George S., San Diego, Cal. Pile for wharves	342,223	May 18	1706	454	35	842
Piefke, Carl W. E., Berlin, Germany. Filter	335,040	Jan. 26	2153	573	34	418
Pierce, Arthur W. (See Poole, Samuel, assignor.)						
Pierce, Augustus F. (See McDonald, William C., assignor.)						
Pierce, David W. (See Black, George H., assignor.)						
Pierce, Ebenezer, New Bedford, Mass. Bomb-lance	345,803	July 20	1447	375	36	273
Pierce, Francis M., Brooklyn, N. Y. Steam-actuated valve	340,729	Apr. 27	2338	616	35	437
Pierce, Frank. (See Wilson, Henry H., assignor.)						
Pierce, George L. (See Strickland, Thomas J., assignor)						
Pierce, Henry M. (See Falconnet, Eugene F., assignor.)						
Pierce, Henry M., Nashville, Tenn. Kiln for the manufacture of charcoal	352,931	Nov. 23	1664	447	37	794
Pierce, Hoel C., Homer, N. Y. Tire-heating furnace	350,389	Oct. 5	639	109	37	76
Pierce, J. Willard, and I. L. G. Rice, Brookline, Mass. Wheel-tire	340,612	Apr. 27	2167	569, 570	35	408
Pierce, J. Willard, and I. L. G. Rice, Brookline, Mass. Tire for wheels	341,050	May 4	105	31	35	524
Pierce, J. Willard, J. H. Bowditch, and I. L. G. Rice, Brookline, Mass. Wheel-tire	340,613	Apr. 27	2168	570	35	408
Pierce, John H., and W. B. Sandford, assignors to Haxtun Steam Heater Company, Kewanee, Ill. Skelp-bending machine	353,808	Dec. 7	218	58, 59	37	1046
Pierce, Jonathan E., Deming's Bridge, Tex., and D. C. Pryor, Cucharas, Colo. Stock-car	345,601	July 13	1143	292	36	211
Pierce Manufacturing Company. (See Tatro, William B., assignor.)						
Pierce, Seymour, assignor of one-third to C. L. Hood, Dublin, Ind. Wire-fence machine	351,842	Nov. 2	159	44	37	488
Pierce, Thomas A., *et al.* (See Earnshaw, John, assignor.)						
Pierce, William H., Sidney Plains, N. Y. Reversible heel-plate	341,347	May 4	526	145	35	600
Pierce, William H., Albany, N. Y. Station-indicator	354,929	Dec. 28	1860	492	37	1373
Piercy, William, Butler, Mo. Filter	352,347	Nov. 9	899	241	37	632
Pieri, Jacques P., Paris, France. Breech-loading fire-arm	340,002	Apr. 13	1297	324	35	238
Pierpont & Co., C. (See Coggins, O. Chester, assignor.)						
Pierpont, Cornelius. (See Dickerman, Amos, assignor.)						
Pierson, Laurence H., San Francisco, Cal. Convertible drill-press or slotting-machine	341,165	May 4	269	77	35	554
Pierson, Samuel F., trustee. (See Holmes, Benjamin F., assignor)						
Pietz, John C., Milwaukee, Wis. Machine for making pressed brick	343,396	June 8	933	233, 234	35	1184
Pigeon, Narcisse, and W. L. Flanagan, New York, N. Y. Manufacturing ale, beer, and porter	339,686	Apr. 13	871	.....	35	160
Pihlström, John S., Chicago, Ill. Window	337,193	Mar. 2	416	108, 109	34	1003
Pike, Edward M., and J. B. Schopp, Chenoa, Ill. Tile and pottery kiln	340,003	Apr. 13	1298	325	35	238
Pike, Joseph R., Johnston, R. I. Sink-trap	354,930	Dec. 28	1864	493	37	1374
Pike, Paphro D., Stowe, assignor to G. J. Prince, trustee, West Randolph, Vt. Machine for cutting locks in hoops	343,197	June 8	614	153	35	1127
Pilcher, John M., Sugar Creek, Ind. Smoke-consumer	350,556	Oct. 12	379	176	37	123

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Pile, John R., Livermore, Ky. Harrow	353,001	Nov. 23	1765	474, 475	37	812
Pile, William A. (See Fuller, Willard M., assignor.)						
Pilgrim, Conrad, East New York, N. Y. Pellet for torpedoes	340,678	Apr. 27	2261	595	35	423
Pilkington, George J., Chester, Pa. Apparatus for refining tallow and other lubricating-oils	335,957	Feb. 9	1228	327	34	668
Pilkington, Joseph H., assignor to E. S. Smith, Waterbury, Conn. Garment-supporter	341,348	May 4	537	145	35	600
Pilkington, Joseph W., assignor of one-half to E. R. Ives, Bridgeport, Conn. Sleeve-holder	339,460	Apr. 6	499	121	35	93
Pillings, George T., assignor to R. T. Smith and W. A. Wicks, Baltimore, Md. Automatic flux-feeding attachment for soldering-machines	342,383	May 25	1969	519, 520	35	896
Pillings, George T., assignor to R. T. Smith and W. A. Wicks, Baltimore, Md. Machine for soldering the longitudinal seams of sheet-metal cans	344,856	July 6	82	21, 22	36	16
Pillsbury, Samuel G., Long Island, Kans. Hammer	332,570	Nov. 16	1174	317	37	692
Pimm, Arthur, Southsea, county of Hants, England. Paving-block	340,153	Apr. 20	1506	381	35	282
Pinch, B. W. (See Woodbury, George E., assignor.)						
Pinckney, Charles C., assignor of one-half to T. W. Terry, Valdosta, Ga. Fifth-wheel for vehicles	335,088	Jan. 26	2222	590	34	431
Pine, James, Troy, N. Y. Mowing-machine	349,740	Sept. 28	1660	429	36	1379
Pine, James K. P. (See Norris, George E., assignor.)						
Pine, James K. P., Lansingburg, N. Y. Wagon spring-board	341,051	May 4	106	31	35	524
Pine, James K. P., Lansingburg, N. Y. Sleigh	354,580	Dec. 21	1356	359, 360	37	1267
Pine, Leighton, South Bend, Ind., assignor to Singer Manufacturing Company of New Jersey. Manufacture of sheets of veneer	348,051	Aug. 24	2237	.....	36	903
Ping, Robert G., Audubon, Iowa. Feed-trough	349,519	Sept. 21	1348	351	36	1313
Pinkerton, John F., Carlton, Tex. Washing-machine	342,034	May 18	1456	389	35	794
Pinkham, Charles S., assignor to E. G. Pinkham, Boston, Mass. Mucilage-holder	334,046	Jan. 12	763	209	34	150
Pinkham, Charles S., Wollaston, Quincy, assignor to E. G. Pinkham, Boston, Mass. Liquid-holder. (Reissue)	10,732	June 8	1153	291	35	1223
Pinkham, Etta G. (See Pinkham, Charles S., assignor.)						
Pinkham, Etta G. (See Pinkham, Charles S., assignor.) (Reissue.)						
Pinkham, George F. (See Taylor and Tirrell, assignors.)						
Pinkham, George F., *et al.* (See Tirrell, Jacob P., assignor.)						
Pinkham, James J., Stillwater, Mont. Ter. Combined hook and buckle	353,462	Nov. 30	2435	650	37	946
Pinkham, Joseph W. (See Cowell and Pinkham.)						
Pinkney, Charles W., Smethwick, county of Stafford, England. Governor for steam and other engines	339,461	Apr. 6	500	122	35	93
Pinkney, Charles W., Smethwick, county of Stafford, England. Governor for steam and other engines	339,462	Apr. 6	502	122	35	93
Pinkston, Merril, Garnett, Kans. Trestle for scaffolding	340,004	Apr. 13	1299	325	35	238
Pintsch, Julius, Berlin, Prussia, Germany. Apparatus for heating railway-cars with gas	336,585	Feb. 23	2141	561, 562	34	841
Pintsch, Oscar, Berlin, Germany. Fluid-pressure regulator	337,431	Mar. 9	770	196	34	1072
Pioneer Iron Works. (See Hartley, James, assignor.)						
Pior, Carl, deceased; M. Pior, Chicago, Ill., administratrix. Alarm-lock	336,155	Feb. 16	1531	403	34	726
Pior, Carl, deceased; M. Pior, Chicago, Ill., administratrix. Key-hole guard	341,388	May 4	588	161	35	612
Pior, Maria, administratrix. (See Pior, Carl.)						
Piper, Charles E., Moline, Ill. Galvanic battery	349,600	Sept. 21	1454	374	36	1333
Piper, Edward S., Toronto, Ontario, Canada. Lamp-case	347,639	Aug. 17	1651	438	36	786
Piper, Edward S., Toronto, Ontario, Canada. Semaphore and other elevated signal-lights	347,640	Aug. 17	1652	438	36	787
Piper, Edwin S., assignor, by mesne assignments, to W. E. Strong, Bristol, Conn. Bottle-washing machine	337,615	Mar. 9	997	256, 257	34	1112
Piper, Francis M., Lynn, Mass. Lacing-button	343,847	June 15	1556	394	35	1303
Piper, Francis M., assignor of one-fourth to W. Norton, Lynn, Mass. Suspenders	352,348	Nov. 9	901	241	37	632
Piper, William H. (See Iler and Piper.)						
Piron, Marie V., Brussels, Belgium, assignor to C. Delattre, Lille, France. Waterproofing and preservation of fabrics	339,463	Apr. 6	504	.....	35	93
Pirrong, John N., Corning, N. Y. Fluid for removing boiler-scales	341,586	May 11	1063	.....	35	702
Pisano, Martin, assignor of one-half to S. R. Alden, Fort Wayne, Ind. Jack for holding boots or shoes	346,772	Aug. 3	395	109	36	538
Pisch, Francis L., New York, N. Y. Illuminated glass sign	335,305	Feb. 2	309	81	34	496
Pischon, Hugo, and R. Pfennig, assignors to Internationaler Vakuum Eis-Maschinen Verein, Berlin, Germany. Vacuum ice-making machine	350,270	Oct. 5	230	68	37	48
Pitchford, John B., assignor of one-half to W. T. Garratt, San Francisco, Cal. Valve-gear	342,035	May 18	1456	389	35	794
Pitchford, John B., assignor of one-half to W. T. Garratt, San Francisco, Cal. Engine-valve gear	342,036	May 18	1458	390	35	795
Pitkin, James, Clerkenwell, county of Middlesex, England. Secondary battery or accumulator	341,600	May 11	874	233	35	676
Pitney, Sanford C., and J. Ash, Quincy; said Ash assignor to M. Robertson, Bevely, Ill. Hoe	343,606	June 15	1227	308	35	1243
Pitrat, Julius E., Gallipolis, Ohio. Price-scale	341,166	May 4	272	77	35	554
Pitrat, Julius E., Gallipolis, Ohio. Weighing and price scale	344,857	July 6	87	23	36	16
Pitt, John R., Brooklyn, N. Y. File and binder for pamphlets, bills, &c.	338,675	Mar. 23	2433	647	34	1384
Pitt, William R., Brooklyn, N. Y. Flag and other poles, &c.	351,463	Oct. 26	1972	513	37	378
Pitt, William R., New York, N. Y. Folding gate	352,660	Nov. 16	1303	351	37	716
Pittenger, John S., *et al.* (See Eachus, George W., assignor.)						
Pittman, George L., Belmont, Ohio. Thrashing-machine	332,148	Nov. 9	627	166	37	582
Pittman, Granville W., Keokuk, Iowa. Wheel and axle	344,543	June 29	2528	653	35	1494
Pittman, Matthew M., Findlay, Ohio. Car-coupling	352,349	Nov. 9	901	241	37	632
Pitton, Philip, Cincinnati, Ohio. Horseshoe	350,840	Oct. 12	1053	282	37	199
Pitts Agricultural Works. (See Aitken, Robert W., assignor.)						
Pitts Agricultural Works. (See Butler, Wesley, assignor.)						
Pitts, Aurelius V., Marseilles, Ill. Road-grader	342,808	June 1	45	12	35	1014
Pitts, Hanover. (See Belanski and Pitts.)						
Pitts, Lee P., Deport, Tex. Cotton planter and chopper	352,149	Nov. 9	629	166	37	582
Pittsburg Hob Nail Manufacturing Company. (See Dickson, John S., assignor.)						
Pittsburg Spring Company. (See Hunzeker, Rudolph S., assignor.)						
Pixley, Wilson H., *et al.* (See Currier, Charles M., assignor.)						
Place, Harry D., assignor of one-fourth to O. P. Sook, Newark, Ohio. Scouring-box	340,059	Apr. 13	1372	344	35	251
Place, James F., New York, N. Y. Gas engine	348,998	Sept. 14	626	163, 164	36	1167
Place, James F., New York, N. Y. Gas-engine	348,999	Sept. 14	634	164, 165	36	1167

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Plamondon Manufacturing Company, A. (See Lott, Charles G., assignor.)						
Plane, Henry G. (See Paxman and Plane.)						
Piano Manufacturing Company. (See Hunt, George G., assignor.)						
Piano Manufacturing Company. (See Hunt and Steward, assignors.)						
Piano Manufacturing Company. (See Peck, Ezra A., assignor.)						
Plant, Increase C. (See Jordan and Plant.)						
Plant, William H., Brooklyn, N. Y. Trunk-lock hasp	340,679	Apr. 27	2262	596	35	423
Plante, Henry, New York, N. Y. Gage	336,742	Feb. 23	2361	618	34	881
Plass, Reuben H., New York, N. Y. Apparatus for lighting and heating railway-cars, &c.	353,499	Nov. 30	2488	665	37	956
Platinum Light Company. (See O'Neill, Henry G., assignor.)						
Plato, Arthur M. (See Marcus and Epstein, assignors.)						
Platt, Albert L., assignor to W. B. McPike, C. Clark, A. McDannold, E. T. Smith, and J. D. Hostetter, Bowling Green, Mo. Nutmeg-grater	334,279	Jan. 12	1127	302	34	217
Platt Brothers & Company. (See Platt, Clark M., assignor.)						
Platt Brothers & Company. (See Platt, Irving G., assignor.						
Platt Brothers & Company. (See Platt, William S., assignor.)						
Platt, Charles. (See Bibl and Platt.)						
Platt, Charles J. W., Philadelphia, Pa. Weather-strip	334,463	Jan. 19	1381	372	34	271
Platt, Clark M., assignor to Platt Brothers & Company, Waterbury, Conn. Machine for punching and feeding scraps of sheet metal	334,190	Jan. 12	981	264	34	189
Platt, Clark M., assignor to Patent Button Company, Waterbury, Conn. Rivet-setting and button-fastening machine	343,848	June 15	1556	394	35	1303
Platt, Daniel B., Rochester, N. Y. Felt boot	352,350	Nov. 9	902	242	37	633
Platt, George A. (See Stone and Platt.)						
Platt, George W., Brooklyn, N. Y. Brake	342,460	May 25	2077	548	35	915
Platt, Irving G., administrator. (See Platt, William S.)						
Platt, Irving G., assignor to Platt Brothers & Company, Waterbury, Conn. Button	334,191	Jan. 12	983	264	34	189
Platt, James, *et al.* (See Tweddell, Platt, and Fielding.)						
Platt, John A., assignor to himself and R. W. Whittaker, Langley, S. C. Filling-fork for loom stop-motions	348,339	Aug. 31	2650	714	36	987
Platt, Mathias, Imperial, assignor of three-fourths to J. W. McCreedy, A. J. McQuitty, and W. Hill, Mansfield, Pa. Cotton-picking machine	347,058	Aug. 10	797	212	36	620
Platt, William S., deceased; I. G. Platt, administrator, and assignor to Platt Brothers & Company, Waterbury, Conn. Zinc for electric batteries	344,750	June 29	2790	722	35	1544
Platts, Thomas M., and M. Crane, (administratrix of O. B. Crane, deceased,) Newark, N. J. Punch	337,077	Mar. 2	258	69	34	974
Pleuty, Josephus, Jersey City, N. J. Horticultural building	335,145	Feb. 2	64	18	34	452
Plessner, Paul. (See Merz, Theodore C., assignor.)						
Plenkharp, Charles V., Columbus, Ohio. Caster	348,052	Aug. 24	2238	598	36	903
Plenkharp & Co., James. (See Plenkharp, James, assignor.)						
Plenkharp, James, assignor to J. Plenkharp & Co., Columbus, Ohio. Table-leaf support	340,519	Apr. 20	2036	523	35	378
Plimpton, Homer A., Denver, Colo. Chromosphere or optical toy	342,264	May 18	1766	468	35	852
Plimpton, James W. (See Raifsnyder, William H. F., assignor.)						
Plisson, Hippolyte L., Aresnelles, France. Vehicle-seat	348,053	Aug. 24	2239	{598 / 599}	36	903
Plourde, Arthur. (See Dumontier and Plourde.)						
Plowman, Joseph G., White Pigeon, Mich. Chair	346,313	July 27	2155	554	36	413
Pluck, James H., Waresville, Tex. Tie-tightener	335,535	Feb. 2	620	162	34	551
Plum, Charles M., San Francisco, Cal. Furniture-support	350,390	Oct. 5	380	110	37	76
Plumb, Burdict & Barnard. (See Burdict, Orrin C., assignor.)						
Plumb, Charles F., Waterford, Mich. Potato digger and coverer	343,063	June 1	408	104	35	1080
Plumb, David S., Newark, N. J. Earthenware and glassware and ornamenting the same	347,195	Aug. 10	995	266	36	656
Plumb, Fawcett. (See Bown, Albert, assignor.)						
Plumb, Fawcett, assignor of one-half to A. Bown, Streator, Ill. Twin-cylinder single acting engine	336,743	Feb. 23	2363	618	34	881
Plumb, Fawcett, Streator, and S. Wise, Prairie Home, Ill.; said Wise assignor to said Plumb. Ditching-machine	341,941	May 18	1334	357	35	772
Plumb, Henry B., Terryville, Conn. Caster	349,952	Sept. 28	1945	503	36	1434
Plumley, Charles E., Byron, Cal. Gate	351,337	Oct. 19	1748	460	37	332
Plummer, Charles H. (See Faulkner, James J. and E. T., assignors.)						
Plummer, Samuel A. (See Williston, Benjamin F., assignor.)						
Plummer, William S., San José, Cal. Fruit-drier	343,607	June 15	1228	308	35	1244
Plummer, William S., Leavenworth, Kans. Hop-drier	345,647	July 13	1218	315	36	225
Plymell, George W., near London, Ohio. Hitching attachment for cultivators	350,319	Oct. 5	291	83	37	59
Pneumatic Company. (See Moore, Matthew R., assignor.)						
Pneumatic Gun Carriage Company. (See Powlett, James A., assignor.)						
Pneumatic Gun Carriage Company. (See Spiller, Harry A., assignor.)						
Pneumatic Signal and Telephone Company. (See Maloney, James A., assignor.)						
Poalk, James L., Philadelphia, Pa. Printing-machine	339,687	Apr. 13	874	{214 / 215}	35	160
Pocket and Stationary Fire Escape Company. (See Johnson, Andrew J., assignor.)						
Podgórski, Casimir M., Northampton, Mass. Scale-section liner	345,989	July 20	1705	438	36	319
Poe, Ebenezer W. (See Esterly and Poe.)						
Poe, Hamilton, St. Louis, Mo. Feed-water heater	334,192	Jan. 12	984	265	34	189
Poell, Hermann, assignor of one-half to H. Gruner and A. Schmidt, Philadelphia, Pa. Tinner's seaming-machine	338,187	Mar. 16	1766	461	34	1260
Pogue, Cyrus F., Edmond, Kans. Door-hanger	354,808	Dec. 21	1688	445	37	1329
Pohl, E. Otto, Philadelphia, Pa. Metallic awning	349,810	Sept. 28	1760	455	36	1397
Pohl, George D., Ava, N. Y. Self-salting curd-mill	349,405	Sept. 21	1192	309	36	1282
Pohl, George R., assignor of one-half to F. Hugle, Washington, D. C. Cigar-cutter	351,886	Nov. 2	223	63	37	499
Pohl, Henry U., Hiawatha, Kans. Desk	336,345	Feb. 16	1817	{476 / 477}	34	776
Pohlé, Julius G., Georgetown, Colo. Compressed-air water-elevator	347,196	Aug. 10	996	266	36	656
Pohlé, Julius G., and D. Hill, Georgetown, Colo. Pneumatic water-elevator	338,295	Mar. 23	1906	502	34	1293
Pohlman, William, Middletown, N. Y. Adjustable packing for piston-rods	347,197	Aug. 10	998	266	36	657
Pohlmann, John W., Buffalo, N. Y. Ash-sifter	346,384	July 27	2252	576	36	431
Polesz, William F., assignor to H. B. and F. A. Riehlé, Philadelphia, Pa. Marble counter-sinking and molding machine	349,000	Sept. 14	640	165	36	1168
Poindexter, Robert E. (See Nesom, Thomas, assignor.)						
Poindexter, Robert E., Indianapolis, Ind. Handle for tobacco-knives	336,429	Feb. 16	1931	506	34	793
Poindexter, Robert E., Indianapolis, Ind. Saw-handle	345,648	July 13	1219	315	36	225
Poindexter, Robert E., Indianapolis, Ind. Saw-set	346,944	Aug. 10	639	171	36	591
Poindexter, Robert E., Indianapolis, Ind. Saw	355,205	Dec. 28	2254	595	37	1449

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Poinsett, Joseph L., Newport, Ky., assignor of one-half to Horton & Co., Cincinnati, Ohio. Fire-ladder	354,839	Dec. 21	1728	457	37	1337
Poitras, John M., Deseronto, Ontario, Canada. Snow-plow	337,078	Mar. 2	259	60	34	974
Pole, Benjamin C., Philadelphia, Pa. Duplex locomotive	335,479	Feb. 2	539	141 142	34	538
Pole, Benjamin C., Camden, N. J. Car-starter	353,759	Dec. 7	147	40, 41	37	1034
Polhemus, Garret A., Nyack, N. Y. Roller cable-grip. (Reissue)	10,677	Jan. 12	1291	348	34	246
Polhemus, Garret A., Nyack, N. Y., assignor, by mesne assignments, to Polhemeus Hydraulic Grip and Brake Company. Roller cable-grip	353,809	Dec. 7	220	59	37	1047
Polhemeus Hydraulic Grip and Brake Company. (See Polhemeus, Garret A., assignor.)						
Polk, John E. (See Robburts, George W., assignor.)						
Pollard, Edward, East Cambridge, Mass. Ornamenting glassware	343,608	June 15	1229	.....	35	1244
Pollard, Isaac G., Sunville, Pa. Sad-iron	341,942	May 18	1336	357	35	773
Pollard, Isaac G., Evansburg, assignor of one-half to C. G. Wilder, Meadville, Pa. Barrel-stand	343,920	June 15	1643	421	35	1321
Pollard, James H., Clarence, Mo. Railway-gate	337,079	Mar. 2	260	60	34	975
Pollard, James H., Clarence, Mo. Car-coupling	347,511	Aug. 17	1450	385	36	748
Pollard, John L., *et al.* (See Eastin, Arthur L., assignor.)						
Pollard, Moses. (See Pollard, Wright and M.)						
Pollard, Wright and M., Pawtucket, R. I. Machine for dyeing and washing wool and cotton	338,438	Mar. 23	2114	553	34	1329
Polle, Friederich W., Greenville, Miss. Turning plug	334,722	Jan. 19	1738	463	34	335
Polley, Charles L., Sandusky, Ohio. Device for filing saws and drilling	337,432	Mar. 9	772	197	34	1072
Polley, Clark, New Berlin, Fla. Weather-strip	352,932	Nov. 23	1666	448	37	795
Polleys, William H., Melrose, Wis. Spiked skid	338,872	Mar. 30	2726	717	34	1443
Polster, John. (See Gronemeyer and Polster.)						
Polte, Eugen, Magdeburg, Germany. Oil-separator for steam and water	338,772	Mar. 30	2592	683	34	1418
Pomeroy, Julian. (See Nichols, Benjamin F., assignor.)						
Pomeroy, Julian, Springfield, Mass. Rein-hook	335,306	Feb. 2	310	82	34	496
Pomeroy, William H., Gloucester, Mass. Foil-condenser	345,724	July 20	1332	345	36	253
Pommerenke, William, Painted Wood City, Tex. Per. Combined harrow and seed-planter	337,991	Mar. 16	1500	389	34	1268
Pond, C. V. R. (See Moles, Edward, assignor.)						
Pond, Charles L., Buffalo, N. Y. Seal-press	334,395	Jan. 12	1274	344	34	244
Pond, Charles L., Buffalo, N. Y. Seal-press	336,663	Feb. 23	2265	590	34	863
Pond, Charles L., Buffalo, N. Y. Metallic seal	343,849	June 15	1558	395	35	1304
Pond, Charles L., Buffalo, N. Y. Metallic seal	345,173	July 6	515	132	36	94
Pond, Chester H., Brooklyn, N. Y. Circuit-closer for electric clocks	338,773	Mar. 30	2593	683	34	1418
Pond, Chester H., Brooklyn, N. Y. Synchronizing device for clocks	339,688	Apr. 13	879	216	35	161
Pond, Goldsbury H., Rutland, Vt. Machine for the manufacture of wood pulp	351,067	Oct. 19	1388	364 365	37	266
Pond, Goldsbury H., Rutland, Vt. Manufacture of wood and other pulp	351,068	Oct. 19	1389	365	37	266
Pond, Goldsbury H., Rutland, Vt. Bleaching wood and other material	351,069	Oct. 19	1391	.....	37	266
Pond, Goldsbury H., Glens Falls, N. Y. Manufacture of paper-pulp from wood	354,931	Dec. 28	1865	493	37	1374
Pond, Joseph F. (See Weber, Charles, assignor.)						
Pond, Lucius W., Worcester, Mass. Steam-generator	340,060	Apr. 13	1372	344	35	251
Pond, Lucius W., Worcester, Mass. Metal-planing machine	351,937	Nov. 2	306	85	37	514
Pond Machine Tool Company. (See Rasmussen, Knud, assignor.)						
Pond, Nathan C., *et al.* (See Ingersoll, Simon, assignor.)						
Pond, Orlando M., Independence, Iowa. Whiffletree-hook	339,689	Apr. 13	882	216	35	161
Pond, West & Simons. (See Ingersoll, Simon, assignor.)						
Ponten, Anders, New York, N. Y. Garment-lock	339,208	Apr. 6	133	35	35	26
Pontius, Albert G. (See Warstler and Pontius.)						
Pontius, Henry D., *et al.* (See Smith, Samuel, assignor.)						
Pool, Frank V., Newark, N. J. Manufacturing nitro-cellulose	336,822	Feb. 23	2468	.....	34	901
Pool, Frank V., Newark, N. J., assignor to Celluloid Manufacturing Company, New York, N. Y. Making nitro-cellulose	343,850	June 15	1559	.....	35	1304
Pool, Henry W., Providence, R. I. Music-leaf turner	338,103	Mar. 16	1658	430 431	34	1238
Pool, William H., assignor to W. D. Stevens, Springfield, Mass. Dandy-roll	354,486	Dec. 14	1209	324	37	1234
Poole, C. Clarence. (See Clarke, William H., Jr., assignor.)						
Poole, Ella C. (See Coleman, William O., assignor.)						
Poole, Herman, Buffalo, N. Y. Composition for making artificial stone	343,198	June 8	615	.....	35	1128
Poole, Robert B., Utica, N. Y. Clamp	333,667	Jan. 5	221	61	34	43
Poole, Samuel, Brooklyn, assignor to himself and A. W. Pierce, Hackensack, N. J. Glove-stretcher	346,415	July 27	2300	593	36	439
Poor, George H., assignor to American Brake Company, St. Louis, Mo. Draw-bar for cars	341,601	May 11	875	233	35	676
Poor, George H., assignor to American Brake Company, St. Louis, Mo. Brake for locomotives	346,441	July 27	2339	601 602	36	446
Poor, George H., assignor to American Brake Company, St. Louis, Mo. Brake-shoe	346,825	Aug. 3	456	125	36	549
Poor, George H., assignor to American Brake Company, St. Louis, Mo. Automatic car-brake	348,234	Aug. 31	2514	675 676	36	958
Poor, George H., assignor to American Brake Company, St. Louis, Mo. Combined valve and heater	354,221	Dec. 14	843	224	37	1167
Poor, John R., Boston, Mass. Filter	345,318	July 13	722	182	36	136
Poor, Nelson P., Cleveland, Ohio, assignor to Davis Sewing Machine Company, Watertown, N. Y. Binding attachment for sewing-machines	338,774	Mar. 30	2595	683	34	1419
Poor, Nelson P., Cleveland, Ohio, assignor to Davis Sewing Machine Company, Watertown, N. Y. Sewing-machine braider	341,943	May 18	1337	357	35	773
Poore, Graydon, C. Ingrey, and E. Latham, London, county of Middlesex, England. Fluid-pressure motor	345,858	July 20	1522	394	36	285
Poore, Townsend, Scranton, Pa. Steam-blower for stacks of boiler-furnaces	333,543	Jan. 5	63	18	34	14
Poore, Townsend, Scranton, Pa. Boiler-furnace	333,544	Jan. 5	64	18	34	15
Poore, Townsend, Scranton, Pa. Endless-chain grate	334,047	Jan. 12	764	210	34	150
Poore, Townsend, Scranton, Pa. Furnace	335,621	Feb. 9	749	200	34	582
Poore, Townsend, Scranton, Pa. Fire-box for boilers	335,715	Feb. 9	825	234	34	605
Poore, Townsend, Scranton, Pa. Steam-boiler	336,430	Feb. 16	1932	506 507	34	798
Poore, Townsend, Scranton, Pa. Boiler	336,431	Feb. 16	1933	507	34	798
Poore, Townsend, Scranton, Pa. Stove, heater, and furnace	342,809	June 1	46	12	35	1015
Poore, Townsend, Scranton, Pa. Locomotive-boiler	343,278	June 8	735	183	35	1148
Pope, Arthur W., Boston, Mass. Pebbling cloth or other web	354,581	Dec. 21	1357	360	37	1267
Pope, Edwin, Quebec, Quebec, Canada. Telephone switch and circuit	348,139	Aug. 21	2356	632	36	924
Pope, Frank L., Elizabeth, N. J. Circuit for electric railways	333,970	Jan. 5	645	177	34	121
Pope, Frank L., Elizabeth, N. J. Circuit for electric railways	334,608	Jan. 19	1577	420	34	306

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Pope, Frank L., Elizabeth, N. J. Electrically-actuated locomotive	339,073	Mar. 30	3015	797	34	1493
Pope, Frederic, Boston, Mass. Shell	348,340	Aug. 31	2650	714	36	987
Pope, Harry M., assignor to Pope Manufacturing Company, Hartford, Conn. Velocipede	354,840	Dec. 21	1729	458	37	1337
Pope, John F., Ottumwa, Iowa. Necktie fastener	335,716	Feb. 9	887	234	34	605
Pope, John L., Cleveland, Ohio. Nut-lock	348,235	Aug. 31	2516	676	36	959
Pope Manufacturing Company. (See Burdess, Adam, assignor.)						
Pope Manufacturing Company. (See Day, George H., assignor.)						
Pope Manufacturing Company. (See Gould, George H., assignor.)						
Pope Manufacturing Company. (See Haynes and Schaat, assignors.)						
Pope Manufacturing Company. (See Knous, John, assignor.)						
Pope Manufacturing Company. (See Philbrick, Andrew J., assignor.)						
Pope Manufacturing Company. (See Pope, Harry M., assignor.)						
Pope Manufacturing Company. (See Starley, John K., assignor.)						
Pope Manufacturing Company. (See Waite, James N., assignor.)						
Pope Manufacturing Company. (See Wallace, Albert E., assignor.)						
Pope, Richard C., St. Louis, Mo. Machine for jointing staves	347,059	Aug. 10	799	213	36	620
Pope, William A., Oshkosh, Wis. Holder for blacking boxes and brushes	347,641	Aug. 17	1654	439	36	787
Pope, William B., New York, N. Y. Adjustable holder for scarfs for neck-wear	335,717	Feb. 9	888	234	34	606
Pope, William P., Brooklyn, N. Y. Paper-hanger's roller	352,351	Nov. 9	903	242	37	633
Pope, William W., Walker's Bridge, Miss. Side harrow	352,982	Nov. 23	1736	465	37	806
Popham, Richard M. (See Pfeil, Henry S., assignor.)						
Popp, Christian, and L. Melchior, Wilmington, Del. Building-block	344,594	June 29	2587	670	35	1507
Popp, Jacob J. F. (See Witt and Popp.)						
Popp, Theodore L. (See Buchheit and Popp.)						
Popper, Leo, New York, N. Y. Button	352,886	Nov. 16	1602	432	37	774
Popper, Simon, San Francisco, Cal. Neckscarf	334,467	Jan. 19	1389	375	34	272
Popular Telephone Company. (See Eastman, William H., assignor.)						
Porter, Alonzo W., New York, N. Y., assignor to J. J. Cooper, Philadelphia, Pa. Hand fire-extinguisher	343,489	June 8	1064	266	35	1207
Porter, B. F. (See Suydam, John, assignor.)						
Porter, Charles L., St. Louis, Mo., assignor to Chicago Glycerine Company. Refining glycerine	345,174	July 6	516	.....	36	94
Porter, Charles T., New York, N. Y. Bearing for shafts	354,582	Dec. 21	1358	360	37	1267
Porter, David W., assignor of one-half to C. Prill, Pittsburg, Pa. Automatic fan	347,255	Aug. 10	1074	288	36	671
Porter, Edward N., Burlington, Vt. Corner or plate attachment for extension window-screens	337,433	Mar. 9	773	197	34	1073
Porter, Freemont. (See Power, John W., assignor.)						
Porter, George A., Syracuse, N. Y. Evaporating apparatus	351,651	Oct. 26	2250	582, 583	37	430
Porter, Harry W. (See Tefft and Smith, assignors.)						
Porter, Henry K., Boston, Mass. Whiffletree-iron	336,016	Feb. 9	1306	347	34	681
Porter, Henry K., Boston, Mass. Whiffletree-center	350,391	Oct. 5	381	110	37	76
Porter, Henry K., Boston, Mass. Breeching-hook	350,392	Oct. 5	383	110	37	77
Porter, John B., Philadelphia, Pa., assignor of one-half to G. W. Ryer, Brooklyn, N. Y. Coupon-ticket	347,958	Aug. 24	2115	564	36	879
Porter, John F., Mount Washington, Ky. Sash-fastener	338,548	Mar. 23	2251	591	34	1353
Porter, John H., and J. H. Daly, Jackson, Mich. Gasoline-vapor conductor	349,953	Sept. 28	1946	503	36	1434
Porter, John K., Philadelphia, Pa. Violin tuning-peg	338,296	Mar. 23	1909	503	34	1294
Porter, Joseph E., Chicago, Ill. Hay-carrier	333,545	Jan. 5	66	18	34	15
Porter, Joseph L. (See Flagg, Elisha, assignor.)						
Porter, Stephen, Boston, Mass. Garment-supporter	342,708	May 25	2436	647	35	981
Porter, Stephen, assignor of one half to M. A. Kent, Boston, Mass. Glove-fastener	343,543	June 8	1129	285	35	1219
Porter, Thomas A., *et al.* (See Brown, James, assignor.)						
Porter, William H. (See Burnette and Porter.)						
Posen, Sidney. (See Mönch, Jacob, assignor.)						
Positive Pump and Water Meter Company. (See Berrenberg, William and A., assignors.)						
Post & Co. (See Briggs, William H., assignor.)						
Post, Charles C., Burlington, Vt. Sap-spout	348,581	Sept. 7	67	19	36	1060
Post, Charles N., assignor to G. W. Lyon, P. J. Healy, R. B. Gregory, and C. N. Post, Chicago, Ill. Tambourine	347,512	Aug. 17	1451	385	36	748
Post, Charles N., assignor to himself, G. W. Lyon, P. J. Healy, and R. B. Gregory, Chicago, Ill. Tambourine	349,001	Sept. 14	642	166	36	1169
Post, William S., Boston, and H. D. Sawyer, Revere, Mass., assignors to Complete Combustion Company, Portland, Me. Steam-boiler and furnace	351,338	Oct. 19	1749	461	37	332
Post, William S., Boston, and H. D. Sawyer, Revere, Mass., assignors to Complete Combustion Company, Portland, Me. Steam boiler and furnace	351,652	Oct. 26	2251	583	37	430
Postel, Albert H., Philadelphia, Pa. Machine for beveling the edges of cards and card-board	343,337	June 8	832	209, 210	35	1164
Poston, John H., Eufaula, Ala. Cotton-cleaner	339,464	Apr. 6	505	122	35	93
Poston, Mac, *et al.* (See Hoepfner, Henry J., assignor.)						
Potee, Claudius, Somerford, Ohio. Clearer attachment for harvester-cutters	334,723	Jan. 19	1739	463	34	336
Poteet, James E., Wortham, Tex. Harvesting-sack supporter	337,194	Mar. 2	417	109	34	1003
Potteiger, Harrison A. (See Follett, William H., assignor.)						
Potter, Addison, Portland, Oreg., assignor of one-half to N. W. Spaulding, San Francisco, Cal. Gage for planer-knives	348,341	Aug. 31	2651	715	36	987
Potter, Charles, Holyoke, Mass. Stock-regulator for paper-machines	337,080	Mar. 2	261	69, 70	34	975
Potter, Charles, Jr., Plainfield, N. J. Sheet-delivery apparatus for printing-machines	333,068	Jan. 5	222	61	34	43
Potter, Charles, Jr., Plainfield, N. J. Stop-cylinder printing-machine	344,496	June 29	2453	630, 631	35	1480
Potter, Charles, Jr., Plainfield, N. J. Sheet-delivery apparatus for printing-machines	344,497	June 29	2455	631	35	1481
Potter, Charles, Jr., Plainfield, N. J. Sheet-delivery apparatus for printing-machines	354,872	Dec. 21	1777	468, 469	37	1346
Potter, Charles M. (See Warren and Potter.)						
Potter, Edward H. (See Sullivan, Charles A., assignor.)						
Potter, Ephraim B., Paducah, Ky. Apparatus for vaporizing liquids	350,445	Oct. 5	471	133	37	91
Potter, George D., Deming, N. Mex. Ter. Fire-arm	338,188	Mar. 16	1768	461	34	1260
Potter, George D., Deming, N. Mex. Ter. Safety-catch for fire-arms	338,189	Mar. 16	1771	462	34	1261
Potter, George H., assignor to Benedict & Burnham Manufacturing Company, Waterbury, Conn. Device for transmitting power	355,906	Dec. 28	2255	595	37	1449
Potter, George W., Albion, N. Y. Sleigh-runner	352,887	Nov. 16	1602	432	37	774
Potter, Hobert B., North Adams, Mass. Switch-lock	338,873	Mar. 30	2727	717, 718	34	1443
Potter, Hobert B., North Adams, Mass. Railway-signal	341,602	May 11	876	234	35	676
Potter, James, assignor of one-half to L. H. Flersheim, Chicago, Ill. Barbed wire	336,664	Feb. 23	2266	591	34	863

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Potter, James, and R. Gomez, San Francisco, Cal. Barrel-tilting device	345,395	July 13	830	208	36	155
Potter, James C., assignor to Atherton Machine Company, Lowell, Mass. Cotton opener and lapper	335,089	Jan. 26	2223	590	34	431
Potter, James C., assignor to Atherton Machine Company, Lowell, Mass. Machinery for opening, cleaning, or preparing cotton, &c	344,198	June 22	2045	523	35	1400
Potter, James C., Lowell, Mass. Machinery for opening and cleaning cotton, &c	345,255	July 6	630	160	36	114
Potter, James W., Potterville, Mich. Extension-table slide	345,175	July 6	517	132	36	94
Potter, John A., Chicago, Ill. Shifting apparatus	350,444	Oct. 5	468	132, 133	37	90
Potter, Joseph, Boston, Mass. Extension-ladder	354,612	Dec. 21	1415	375	37	1277
Potter, Maynes, Mariner's Harbor, N. Y., assignor of one-half to W. V. Gulick, Orange, N. J. Wrench	341,768	May 11	1102	292	35	721
Potter, Peleg A., Wellsborough, Pa. Saw-set	349,601	Sept. 21	1456	375	36	1333
Potter, Peleg A., Wellsborough, Pa. Saw-filing implement	352,352	Nov. 9	905	242	37	633
Potter, Stephen T., Marshall, Mo. Washing-machine	352,711	Nov. 16	1377	372	37	730
Potter, Thomas O., Boston, Mass. Buckle	337,517	Mar. 9	882	224	34	1091
Potter, Thomas O., Boston, Mass. Buckle	353,810	Dec. 7	223	60	37	1048
Potter, Thomas O., Boston, Mass. Suspenders	353,811	Dec. 7	224	60	37	1048
Potter, Thomas O., Boston, Mass. Suspender-buckle	353,812	Dec. 7	225	60, 61	37	1048
Potter, Thomas O., Boston, Mass. Suspender-clasp	353,813	Dec. 7	226	61	37	1048
Potts, Albert, Philadelphia, Pa. Chimney-support for telegraph-wires	340,520	Apr. 20	2037	523	35	378
Potts, Anthony W., Apple Valley, Ga. Mold-board for cultivators	346,064	July 20	1804	465	36	336
Potts, James F. (See Fischer, August, assignor.)						
Potts, Joseph H., Toronto, Ontario, Canada. Water closet indicator	355,099	Dec. 28	2103	552	37	1419
Poulson, Charles G., Linwood, Pa. Device for sharpening mowing-machine knives	343,726	June 15	1409	351	35	1275
Poulson, Niels, Brooklyn, N. Y. Blower and heat-regulator	339,465	Apr. 6	506	122, 123	35	94
Poulson, Niels, Brooklyn, N. Y. Ventilating fire-place	344,790	June 29	2844	736, 737	35	1554
Poundstone, Henderson W. (See Toliver, Poundstone, and Schopf.)						
Powel, Harford W. H., trustee. (See Powel, Samuel, assignor.)						
Powel, Samuel, Newport, R. I., assignor to H. W. H. Powel, trustee. Making iron pictures	337,703	Mar. 9	1106	.....	34	1131
Powell, Albert M., Worcester, Mass. Metal-turning lathe	351,711	Oct. 26	2323	604	37	445
Powell, Edwin, Williamsport, Pa. Machine for sawing hoop-poles	335,090	Jan. 26	2226	591	34	432
Powell, Edwin, Williamsport, Pa. Hoop-cutting machine	348,582	Sept. 7	68	19	36	1060
Powell, George W. (See Butler, Charles A., assignor.)						
Powell, Howard, assignor of one-half to J. S. Fisher, Chicago, Ill. Sash fastener	348,342	Aug. 31	2652	715	36	987
Powell, James, Cincinnati, Ohio. Lubricator	335,146	Feb. 2	65	18	34	452
Powell, James, Cincinnati, Ohio. Lubricator. (Reissue)	10,728	May 18	1863	493	35	870
Powell, James, Cincinnati, Ohio. Lubricator	348,170	Aug. 24	2407	645	36	934
Powell, James C., Macon, Ga. Hand-stamp	346,065	July 20	1805	466	36	336
Powell, Joseph M., Tipton, assignor to P. H. Young, Kokomo, Ind. Tile-machine table	335,536	Feb. 2	620	162	34	554
Powell, Joseph N., Springfield, Ohio. Device for converting motion	335,147	Feb. 2	67	18	34	453
Powell Perfect Coupler Company. (See Powell, Robert, assignor.)						
Powell, Richard J., and W. F. Nolan, assignors to themselves, P. Baum, H. Lowenthal, Evansville, Ind., and S. Denzer, New York, N. Y. Fastening for attaching buttons to garments	337,195	Mar. 2	418	109	34	1003
Powell, Robert, Kansas City, Mo., assignor to Powell Perfect Coupler Company. Car-coupling	334,804	Jan. 26	1843	491	34	364
Powell, Thomas J., *et al.* (See Latham, Ephraim, assignor.)						
Powell, Walter. (See May, Benjamin, assignor.)						
Powell, William, Oneida, Ill. Car-coupling	338,297	Mar. 23	1910	503	34	1294
Power, John A., assignor of one-half to F. Porter, Carthage, Ind. Combination garden-tool	351,712	Oct. 26	2324	605	37	445
Powers, Abner P., and S. W. Wilkes, Atlanta, Ga. Seal-lock	341,502	May 11	736	198	35	649
Powers, Daniel E., assignor to Patent Paper Cigar Box Company, New York, N. Y. Cigar-box	336,432	Feb. 16	1935	507	34	799
Powers, Daniel E., assignor to Patent Paper Cigar Box Company, New York, N. Y. Cigar-box	336,433	Feb. 16	1936	507	34	799
Powers, Daniel E., assignor to Patent Paper Cigar Box Company, New York, N. Y. Cigar-box	348,928	Sept. 7	531	140	36	1145
Powers, Daniel E., assignor to Patent Paper Cigar Box Company, New York, N. Y. Cigar-box	352,200	Nov. 9	707	189	37	596
Powers, David J., Chicago, Ill. Ditching-machine	340,614	Apr. 27	2169	570, 571, 572	35	408
Powers, Francis J., Cresson, Pa. Rail-joint	346,826	Aug. 3	457	125	36	549
Powers, John D., Hadley, N. Y. Wood-pulp grinder	342,759	May 25	2510	668, 669, 670	35	995
Powles, John L., Goodland, Ind. Draft-equalizer	334,280	Jan. 12	1128	302	34	217
Powles, John L., Goodland, Ind. Draft-equalizer	353,082	Nov. 23	1883	508	37	834
Powers, Joseph A. (See Little and McDonald, assignors.)						
Powers, Titus, assignor of four-fifths to D. C. Scoville and H. Tuttle, New York, N. Y. Hydraulic motor	345,446	July 13	905	226, 227	36	168
Powlett, James A., New York, N. Y., assignor to Pneumatic Gun Carriage Company, Baltimore, Md. Pneumatic carriage for ordnance	339,466	Apr. 6	507	123	35	94
Pracy, Joseph. (See Oliver, Henry J., assignor.)						
Prahar, Louis B., assignor to himself and C. S. Shepard, Brooklyn, N. Y. Bag or satchel fastening	335,307	Feb. 2	311	82	34	496
Prahar, Louis B., Brooklyn, assignor to G. Heiles, New York, N. Y. Combined button-hook and coat and hat hanger	337,788	Mar. 9	1209	314	34	1148
Prahar, Louis B., Brooklyn, assignor to Prahar & Shephard, New York, N. Y. Fastening for hand-bag, pocket-book, and purse frames	337,787	Mar. 9	1208	314	34	1148
Prahar, Louis B., Brooklyn, assignor to Prahar & Shephard, New York, N. Y. Fastening for hand-bag, pocket-book, and purse frames	337,789	Mar. 9	1209	315	34	1149
Prahar, Louis B., Brooklyn, assignor to Prahar & Shepard, New York, N. Y. Fastening for pocket-book, purse, and hand-bag frames	339,577	Apr. 6	711	174	35	124
Prahar, Louis B., Brooklyn, assignor to Prahar & Shepard, New York, N. Y. Handle-fastening for hand-satchels	342,973	June 1	278	72	35	1057
Prahar, Louis B., Brooklyn, assignor to Prahar & Shepard, New York, N. Y. Fastening for satchel-frames, &c	342,974	June 1	279	72	35	1057
Prahar, Louis B., and C. S. Shepard, Brooklyn, N. Y. Bag or satchel catch	336,017	Feb. 9	1307	347	34	684

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Prahar, Louis B., and C. S. Shepard, Brooklyn, N. Y. Combined buttoner and cigar-cutter	336,867	Feb. 23	2524	666	34	912
Prahar, Louis B., and C. S. Shepard, Brooklyn, N. Y. Combined button-hook and cork-screw	349,741	Sept. 28	1665	430	36	1379
Prahar & Shepard. (See Prahar, Louis B., assignor.)						
Prang Educational Company. (See Mead, Edward G., assignor.)						
Pratt, Abram E., *et al.* (See Thomas, Henry J., assignor.)						
Pratt & Cady Company. (See Frisbie, Henry R., assignor.)						
Pratt, Cyrus C., Lincoln, Kans. Land-anchor	354,342	Dec. 14	1026	273	37	1201
Pratt, Edwin E., assignor to A. N. Kellogg Newspaper Company, Chicago, Ill. Stereotype plate and block	348,583	Sept. 7	69	20	36	1060
Pratt, Edwin E., and C. S. Partridge, assignors to A. N. Kellogg Newspaper Company, Chicago Ill. Stereotype-casting box	334,048	Jan. 12	768	210	34	151
Pratt, Fred. M. (See Davies, James, assignor.)						
Pratt, George M., Middletown, Conn. Dividers	336,868	Feb. 23	2525	666	34	912
Pratt, Harvey D. (See Kelley and Pratt.)						
Pratt, Henry C., Canandaigua, N. Y. Wire-holder for fences	338,775	Mar. 30	2596	684	34	1419
Pratt, Henry C., Canandaigua, N. Y. Cultivator	340,894	Apr. 27	2552	672	35	476
Pratt, Henry C., Canandaigua, N. Y. Warning-strip for barbed fences	348,929	Sept. 7	533	141	36	1145
Pratt, Henry L., Brooklyn, N. Y. Saw-frame	345,256	July 6	631	160	36	114
Pratt, James, Blackfriars Road, county of Surrey, assignor to Glass Decoration Company, (limited,) 82 Hatton Garden, county of Middlesex, England. Gilding glass	354,343	Dec. 14	1027	.....	37	1201
Pratt, Joel A., assignor of one-half to J. O. Fry, Mount Ayr, Iowa. Sign	340,730	Apr. 27	2339	616	35	437
Pratt & Letchworth. (See Hewitt, Leslie, assignor.)						
Pratt & Letchworth. (See Thornton, James, assignor.)						
Pratt Manufacturing Company. (See Vose, Clarence, assignor.)						
Pratt, Nat. W., Brooklyn, N. Y. Manifold for sectional boilers	343,727	June 15	1410	351	35	1275
Pratt, Nathaniel W., Brooklyn, N. Y. Forming serpentine tubes	337,282	Mar. 2	540	141 142	34	1026
Pratt, Nathaniel W., Brooklyn, N. Y. Steam-generator	338,676	Mar. 23	2435	642	34	1384
Pratt, Philip W., Abington, Mass. Furniture-pad	336,346	Feb. 16	1818	477	34	776
Pratt, Rufus N., Hartford, Conn. Asbestus packing	338,358	Mar. 23	1998	526	34	1309
Pratt, Rufus N., Hartford, Conn. Asbestus packing	351,464	Oct. 26	1973	513	37	378
Pratt, S. H. (See Kinney, Simon, assignor.)						
Pratt & Whitney Company. (See Gardner, Frederick N., assignor.)						
Pratt & Whitney Company. (See Parkhurst, Edward G., assignor.)						
Pratt & Whitney Company. (See Richards, Francis H., assignor.)						
Pratt & Whitney Company. (See Tucker, George D., assignor.)						
Prause, Reinhard, Bastrop, Tex. Folding lamp-shelf for pianos	348,343	Aug. 31	2652	715	36	987
Pray Manufacturing Company. (See Esplin, Charles, assignor.)						
Preibisch, Carl R., Reichenau, near Zittau, Saxony, Germany. Apparatus for drying and oxidizing woven fabrics	341,769	May 11	1102	292 293	35	721
Prentice, Albert F., Worcester, Mass. Drilling-machine	340,615	Apr. 27	2172	572	35	409
Prentice, George W., Providence, R. I. Button-fastener	336,943	Mar. 2	84	22	34	941
Prentice, George W., Providence, R. I. Button-fastener	341,944	May 18	1337	357	35	773
Prentice, George W., Providence, R. I. Button-fastener	343,199	June 8	615	153	35	1128
Prentice, George W., Providence, R. I. Button-fastener	344,007	June 22	1763	454	35	1350
Prentice, George W., Providence, R. I. Button-fastener	344,858	July 6	91	23	36	17
Prentice, Henry N. (See Wadsworth and Prentice.)						
Prentice, John, New York, N. Y. Combined toy and cigar-cutter	333,669	Jan. 5	224	61	34	44
Prentice, William H., assignor of one-half to J. L. Parks, Toledo, Ohio. Metallic corner-binding for shingles	340,662	Sept. 21	1527	394	36	1349
Prentiss, Charles F., L. G. Stone, and H. Fisher, Woodland, Cal. Sacking attachment for thrashing-machines	336,665	Feb. 23	2267	591	34	863
Prentiss, Charles H., Otsego, and P. Walker, Lawton, Mich. Fanning-mill hopper	333,546	Jan. 5	66	19	34	15
Presbrey, Frank S. (See Manning, William P., assignor.)						
Prescott, Charles A., Cobourg, Ontario, Canada. Bicycle	341,389	May 4	589	162	35	612
Prescott, George A. (See Baker and Prescott.)						
Prescott, Samuel A., Wilkinsonville, Mass. Harness	339,209	Apr. 6	134	36	35	36
Prescott, Thomas H., Sackville, New Brunswick, Canada. Automatic fire-alarm	348,473	Aug. 31	2840	764	36	1023
Preston, Albert F., assignor to Preston Machine Company, Boston, Mass. Machine for stretching uppers	350,467	Oct. 5	517	144	37	97
Preston, Charles A., Cambridgeport, assignor to G. Frost, G. H. Phelps, and G. A. Frost, West Newton, Mass. Garment-supporter	352,888	Nov. 16	1603	432	37	774
Preston, Charles D. (See Lamborn, Wilmer W., assignor.)						
Preston, E. Bruce. (See Alcott, Edward H., assignor.)						
Preston, Everett B., *et al.* (See Curtis, Lewis E., assignor.)						
Preston, Everett B., *et al.* (See Hyde, William F., assignor.)						
Preston, Everett B., *et al.* (See McGaffey, Ives W., assignor.)						
Preston, George E., *et al.* (See McGaffey, Ives W., assignor.)						
Preston, George H., Shortsville, N. Y. Seeding-machine	339,578	Apr. 6	712	174	35	125
Preston, King H. C., Syracuse, assignor to Copeland Manufacturing Company, New York, N. Y. Gate	338,298	Mar. 23	1912	503 504	34	1294
Preston Machine Company. (See Brown, Edwin W., assignor.)						
Preston Machine Company. (See Preston, Albert F., assignor.)						
Preston, Richard, assignor of one-half to Ewing Brothers, Chelsea, Mass. Bottle-rinser	334,805	Jan. 26	1846	492	34	364
Preston, Russell A., Swan, Ind. Cultivating and seeding machine	341,108	May 4	183	57 58 59	35	538
Price, Bruce, New York, N. Y. Passenger-car	335,770	Feb. 9	969	256 257	34	620
Price, Charles B., Pittsburg, Pa. Switching device for railways	335,238	Feb. 2	218	57, 58	34	479
Price, Charles B., Pittsburg, Pa. Frogless switch	353,002	Nov. 23	1767	475 476	37	813
Price, Charles H., *et al.* (See Harmer, Henry A., assignor.)						
Price, Fred A., Jamestown, N. Y. Electric valve-controller and thermostat combined	354,932	Dec. 28	1867	493	37	1374
Price, George P., Carlisle, Ohio. Gate	339,579	Apr. 6	714	175	35	125
Price, George W., assignor of one-half to W. J. Hooper, Baltimore, Md. Steam-engine	337,518	Mar. 9	882	224 225	34	1091
Price, George W., assignor of one-third to J. R. Ford, Baltimore, Md. Apparatus for loading vessels	350,501	Oct. 12	568	157	37	110
Price, H. Clay, assignor to Scovill Manufacturing Company, New York, N. Y. Apparatus for washing photographic plates	354,344	Dec. 14	1028	273	37	1201
Price, Harry F., Fort Worth, Tex. Sash-lock	353,375	Nov. 30	2301	614	37	921

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Price, Henry K. (See East, Price, and East.)						
Price, Herbert. (See Pearson, Brown, and Price.)						
Price, Ichabod C., Springfield, Ohio. Combined wagon, chair, and walker for babies	342,927	June 1	216	55	35	1044
Price, James. (See Harrod, Perry, assignor.)						
Price, James W., Ogden City, Utah Ter. Chair	334,087	Jan. 12	823	225	34	161
Price, John A., Scranton, Pa. Door for cooking-stoves	342,928	June 1	217	56	35	1045
Price, John B., Wollaston, Mass., assignor to Bispool Sewing Machine Company, Kittery, Me. Shuttle for sewing-machines	339,112	Mar. 30	3076	814	34	1503
Price, John B., Wollaston, Mass., assignor to Bispool Sewing Machine Company, Kittery, Me. Sewing-machine	339,113	Mar. 30	3077	814	34	1502
Price, Joseph C. (See Chable, August F., assignor.)						
Price, O. S., *et al.* (See Lytle, Andrew J., assignor.)						
Price, Parker, and J. Leib, Sandy Run, Pa. Device for connecting pipe to bore-holes for Artesian wells	347,277	Aug. 10	1104	295	36	676
Price, Pendleton P., Louisville, Ky. Anal speculum	344,984	July 6	264	66	36	47
Price, Thomas, San Francisco, Cal. Composition for neutralizing fumes of explosives	354,345	Dec. 14	1029	274	37	1201
Price, V. Clarence, *et al.* (See Wilson, Merrick F., assignor.)						
Price, William, Cincinnati, Ohio. Steam washing-machine	350,500	Oct. 12	565	156	37	110
Price, William F., West Caln, Pa. Brooder	343,064	June 1	409	104	35	1081
Price, William G., Schenevus, N. Y. Fare-box	344,287	June 22	2168	555 / 556	35	1422
Price, William H., Columbus, Ohio. Car-cover	335,718	Feb. 9	889	234	34	606
Price, William H., Jr., Cleveland, Ohio. Combination organ stop-action	337,348	Mar. 2	622	164	34	1041
Price, William H., Jr., assignor to Chandler & Price, Cleveland, Ohio. Platen printing-press	342,037	May 18	1460	390	35	795
Price, William M., Crystal Springs, Miss. Gate	338,190	Mar. 16	1772	462	34	1261
Priday, Henry, Houston, Tex. Wire-stretching device for fence-posts	337,865	Mar. 16	1319	341	34	1175
Pridham, Charles W., Earls Court Road, county of Middlesex, England. Railway-signal	352,571	Nov. 16	1175	317	37	693
Pridham, Emma L., Philadelphia, Pa. Wash-board	337,349	Mar. 2	625	164	34	1041
Pridmore, Edward, Brockport, N. Y. Tension device for grain-binders	347,376	Aug. 17	1259	334	36	713
Pridmore, Henry E. (See Baker and Pridmore.)						
Pridmore, Henry E., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Grain-binder	343,152	June 1	545	138	35	1106
Pridmore, Henry E., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Grain-wheel for harvesters	343,544	June 8	1130	285 / 286	35	1219
Pries, Fredrick. (See Williamson and Pries.)						
Priest, Augustus F., Fort William, Ontario, Canada. Rail-clearer	345,257	July 6	632	161	36	115
Priest, Joseph K. (See Smith and Priest.)						
Priest, Joseph K., Nashua, N. H. Hair-clipping machine	350,991	Oct. 19	1288	338	37	248
Priest, William. (See Lloyd and Priest.)						
Priester, Friedmann, and O. Weidemann, Berlin, Germany. Manufacturing colored relief-impressions on sheet-metal	351,125	Oct. 19	1467	384	37	281
Priestley, Charles, Bradford, county of York, England. Making-up board for piece-goods	340,521	Apr. 20	2037	524	35	379
Priestley, Frederick. (See Priestley, James, F., and G.)						
Priestley, George. (See Priestley, James, F., and G.)						
Priestley, James, F., and G., Bradford, county of York, England. Lay or going part of power-looms for weaving double pile fabrics	352,425	Nov. 9	994	268	37	652
Prill, Charles. (See Porter, David W., assignor.)						
Prince, Frederick H. (See Eaton, Prince, and Livesey.)						
Prince, Frederick H., Chicago, Ill. Elevator	335,239	Feb. 2	220	58	34	479
Prince, George J., trustee. (See Pike, Paphro D., assignor.)						
Prindle, Edward T., Aurora, Ill. Door-hanger	350,638	Oct. 12	766	210	37	146
Prindle, Edward T., and F. C. Baird, Aurora, Ill. Door-hanger	350,639	Oct. 12	767	210	37	147
Prindle, George S., *et al.* (See Grayden, James W., assignor.)						
Pringle, Andrew L., San Francisco, Cal. Iron bedstead	337,519	Mar. 9	884	225	34	1091
Pringle, Eugene, Gloversville, N. Y. Button-setting machine	338,716	Mar. 30	2597	684	34	1419
Pringle, Eugene, Gloversville, N. Y. Button for gloves, &c	347,887	Aug. 24	2005	532	36	858
Pringle, Eugene, Gloversville, N. Y. Separable button for gloves	351,887	Nov. 2	224	63	37	500
Pringle, George W., assignor of one-half to L. B. Mizner, Benicia, Cal. Sewer-cleaning apparatus	345,804	July 20	1449	375 / 376	36	273
Pringle, James L. (See Greener, George W., assignor.)						
Pringle, William J., Balltown, Pa. Well-drilling machine	347,377	Aug. 17	1261	334	36	713
Prinz, Faustin. (See Woblrab, Sylvan, assignor.)						
Prinz, Faustin, Milwaukee, Wis. Cockle-machine	345,725	July 20	1333	345	36	253
Prinzhorn, Hermann, assignor to W. L. Newman, Chicago, Ill. Composition of matter for fuel	352,889	Nov. 16	1604	.....	37	774
Pritchard, James, Le Mars, Iowa. Corn-cultivator	339,580	Apr. 6	715	175	35	125
Pritchard, John G. (See Moseley and Pritchard.)						
Pritchard, Willard B., Waterbury, Conn. Blanket-fastening	352,487	Nov. 9	1065	287	37	666
Probst, Emadens, Centralia, Ill. Fruit-gatherer	343,490	June 8	1605	266	35	1207
Procter, Edwin R., Washington Court-House, Ohio. Corn-planter	333,547	Jan. 5	67	19	34	15
Procter, Edwin R., Washington Court-House, Ohio. Nut-lock	333,548	Jan. 5	69	20	34	15
Procter, Edwin R., Washington Court-House, Ohio. Fire-place	334,088	Jan. 12	824	225 / 226	34	161
Procter, Edwin R., Washington Court-House, Ohio. Nut-lock. (Reissue)	10,704	Mar. 30	3092	718	34	1506
Procter, Edwin R., Washington Court-House, Ohio. Railway cross-tie	347,734	Aug. 17	1777	474	36	808
Procter, Edwin R., Washington Court-House, Ohio. Car-wheel	347,735	Aug. 17	1779	474	36	809
Procter, Edwin R., Washington Court-House, Ohio. Seed or corn planter	347,825	Aug. 24	1916	509	36	843
Procter, Edwin R., Washington Court-House, Ohio. Double-tree	347,826	Aug. 24	1919	510	36	844
Procter, Edwin R., Washington Court-House, Ohio. Culinary utensil	349,062	Sept. 14	643	166	36	1169
Procter, Edwin R., Washington Court-House, Ohio. Die for making ratchet-nuts	354,933	Dec. 28	1869	493	37	1375
Procter, George G., *et al.* (See Procter, John N., assignor.)						
Procter, John N., Norfolk, assignor of three-fourths to C. H. Thompson & Co., Boston, and G. G. Procter, South Boston, Mass. Cultivator	351,465	Oct. 26	1974	514	37	379
Proctor, David R., assignor to Lumber Saving and Dressing Saw Company, Chicago, Ill. Saw	347,008	Aug. 10	723	192	36	606
Proctor, Harry H., De Pue, Wis. Device for displaying merchandise	341,856	May 11	1216	326	35	743
Proctor, Jeremiah A., and J. B. Martin, Union City, Ind. Flood-fence	353,157	Nov. 23	2001	536	37	858
Proctor, Josiah K., and J. H. Knowles, assignors to Philadelphia Textile Machinery Company, Philadelphia, Pa. Doffer-comb head for carding-machines	339,581	Apr. 6	716	175 / 176	35	125
Proctor, Josiah K., and J. H. Knowles, assignors to Philadelphia Textile Machinery Company, Philadelphia, Pa. Apparatus for winding toothed wire on carding-cylinders	347,736	Aug. 17	1780	474 / 475	36	809
Proctor, L. M. (See Proctor and Miller, assignors.)						
Proctor, Lawrence M. and W. H., Ogdensburg, N. Y. Toboggan	340,731	Apr. 27	2341	617	35	437

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Proctor, William H. (See Proctor, Lawrence M. and W. H.)						
Proctor, William H., and S. H. Miller; said Miller assignor to L. M. Proctor, Ogdensburg, N. Y. Toboggan	339,690	Apr. 13	882	217	35	162
Promoli, Louis, Toronto, Ontario, Canada. Terro-metallic paving stone, slab, &c	345,726	July 20	1335	346	36	253
Promoli, Louis, Toronto, Ontario, Canada. Furnace for the manufacture of terro-metallic paving-stone	345,727	July 20	1336	346, 347	36	254
Promoli, Louis, Toronto, Ontario, Canada. Process for the manufacture of terro-metallic paving-stones, &c	345,805	July 20	1451	.....	36	273
Prosch, Cyrus, assignor to Prosch Manufacturing Company, New York, N. Y. Shutter for photographic cameras	352,098	Nov. 2	534	142	37	559
Prosch Manufacturing Company. (See Prosch, Cyrus, assignor.)						
Prouty, Augustus B., Providence, R. I. Knob attachment	346,861	Aug. 3	511	140	36	560
Prouty, George W., Boston, Mass. Printing-machine	339,210	Apr. 6	135	36	35	26
Provan, James W., Ashawa, and J. W. Provan, Toronto, Ontario, Canada; said J. W. Provan assignor to said James W. Provan. Hay-carrier	340,923	Apr. 27	2589	682, 683	35	483
Provan, John W. (See Provan, James W. and J. W.)						
Providence Steam Engine Company. (See Johnson, Henry J., assignor)						
Pruim, Hiram P., Grand Haven, Mich. Clock-movement	347,737	Aug. 17	1783	475	36	810
Pruner, Lorenzo H., Dean, Dak. Ter. Wagon end-gate	336,492	Feb. 16	2013	528	34	812
Pruse, Henry. (See Kaylor and Pruse.)						
Prybil, Paul. (See Mackintosh, Edward D., assignor.)						
Pryor, David C. (See Pierce and Pryor.)						
Pryor, David J., Boston, Mass. Horseshoe	346,497	Aug. 3	61	15	36	472
Pryor, Isaac T. (See Campbell, Parker, assignor.)						
Pryor, John D. (See Bull and Vizey, assignors.)						
Puchta, Emil. (See Bayer and Puchta.)						
Puddefoot, Charles, Oakland, Cal. Seaming-machine for sheet metal	354,654	Dec. 21	1474	391	37	1288
Pudder, Henry, Allegheny City, Pa. Baby-walker	341,167	May 4	273	78	35	554
Pudor, J. Ferdinand, assignor of one-half to G. J. Hamilton, Winona, Mass. Protector or guard for boots or shoes	345,728	July 20	1337	347	36	254
Puetz, Tillman, Jr., St. Louis, Mo. Plug-tobacco machine	336,526	Feb. 16	2059	541	34	820
Puetz, Tillman, Jr., St. Louis, Mo. Plug-tobacco machine	336,527	Feb. 16	2061	541, 542	34	820
Puetz, Tillman, Jr., St. Louis, Mo. Cam	336,528	Feb. 16	2063	542	34	821
Puffer, Alvin D., Medford, Mass. Cradle for carbonating soda or other mineral waters	347,378	Aug. 17	1262	334	36	713
Puffer, Charles C., assignor of one-half to J. Sargent, Rochester, N. Y. Cask for fermenting	346,066	July 20	1806	466, 467	36	337
Pugh, Jesse B., Indianapolis, Ind. Automatic clutch-coupler	342,038	May 18	1461	291	35	796
Pugh, John J., Deer Ridge, Mo. Churn	347,827	Aug. 24	1921	510	36	844
Pughe, Lewis, *et al.* (See Sloan, Alexander, assignor.)						
Pugsley, John G., Brooklyn, N. Y. Ankle-supporter	346,606	Aug. 3	198	53	36	499
Puhl, George, and A. Mertes, Allegheny, Pa.; said Mertes assignor to J. Lippincott, Baltimore, Md. Band sawing-machine	350,894	Oct. 12	1121	298, 299	37	211
Pulley, David F., Malakoff, Tex. Planter	352,629	Nov. 16	1260	340	37	708
Pulliam, William J., assignor of one-half to A. Henry and A. M. Barley, Chico, Cal. Wrench	350,602	Oct. 12	707	192	37	136
Pullman, Albert B., *et al.* (See Coyle, Charles J., assignor.)						
Pullman, George M. (See Pfingst, Louis, assignor.)						
Pullman, George M. (See Rapp, August, assignor.)						
Pullman, Herbert S., assignor to J. C. Hammond, Jr., Rockville, and T. E. King, Westport, Conn. Catch-plate for shoe-clasps	346,945	Aug. 10	640	171	36	591
Pullman, Herbert S., Rockville, assignor to Billings & Spencer Company, Hartford, Conn. Bolt-cutter	351,339	Oct. 19	1751	461	37	333
Puls, Ernst C. A., San Geronimo, Tex. Cotton-chopper	353,463	Nov. 30	2436	650	37	946
Pulver, Charles, Rochester, N. Y. Holdback for vehicles	341,052	May 4	106	32	35	524
Pumphrey, Robert B., Baltimore, Md. Meat-slicing machine	337,790	Mar. 9	1210	315	34	1149
Punchard, Edward O. (See Ries, Elias E., assignor.)						
Punches, Oscar J., Plymouth, Mich. Roller-skate	334,281	Jan. 12	1128	303	34	217
Punches, Oscar J., Plymouth, assignor of one-half to E. W. and O. Abbott, Detroit, Mich. Chair and rocker fastener	346,560	Aug. 3	137	38	36	486
Pupikofer, Otto, assignor to Crane Brothers Manufacturing Company, Chicago, Ill. Automatic stop for elevators	348,687	Sept. 7	216	57	36	1086
Purdie, Charles F., Detroit, Mich. Metallic fence	348,499	Aug. 31	2879	774	36	1030
Purdy, John H. (See Sedgwick, Frederick, assignor.)						
Purdy, Silas C., Atkinson, Nebr. Straw-burning attachment for stoves	344,327	June 22	2216	570	35	1431
Purmort, Martin Y., *et al.* (See Marston, David W., assignor.)						
Purple, William L., Albany, N. Y. Vehicle-spring	343,153	June 1	549	139	35	1107
Purrier, Henry, Gunnison, Colo. Baling-press	354,517	Dec. 14	1258	336, 337	37	1242
Pursel, Peter H., and W. W. Kelchner, Ithaca, N. Y. Step-ladder	351,713	Oct. 26	2325	605	37	446
Pursell, Harry D., Washington Court-House, Ohio. Pigeon-hole case	348,930	Sept. 7	534	141	36	1145
Pursell, John, Sr., Thomaston, Conn. Folding adjustable music-stool	336,156	Feb. 16	1532	404	34	726
Pursell, John, Sr., Thomaston, Conn. Folding music-stool	349,053	Sept. 14	711	181	36	1181
Purson, Adrien, Stenay, Meuse, France. Water-proof-cloth bathing-tub for horses	349,257	Sept. 21	1116	288	36	1267
Purson, Adrien, Stenay, Meuse, France. Apparatus for bathing the feet of horses	353,428	Nov. 30	2384	636	37	936
Purves, Thomas B., Greenbush, N. Y. Piston-packing	343,065	June 1	410	105	35	1094
Purves, Willie L., Waddington, N. Y. Feed mechanism for shingle-machines	339,808	Apr. 13	1032	256	35	180
Purviance, Benjamin F., and C. Hills, Keokuk, Iowa. Automatic switch	342,760	May 25	2512	671	35	996
Pusey, Caroline S., Philadelphia, Pa. Pattern for garments	347,888	Aug. 24	2007	532	36	859
Pusey, Joshua, Philadelphia, Pa. Lead or crayon holder	338,611	Mar. 23	2337	611	34	1368
Pusey, Joshua, Philadelphia, Pa. Inserting cords in the seams of textile and other fabrics	338,613	Mar. 23	2341	612	34	1369
Pusey, Joshua, Philadelphia, Pa. Hemstitching and cording attachment for sewing machines	338,614	Mar. 23	2343	612	34	1369
Pusey, Joshua, Philadelphia, Pa. Wrench	338,874	Mar. 30	2729	718	34	1444
Pusey, Joshua, Philadelphia, Pa. Sample-tag	354,518	Dec. 14	1260	337	37	1243
Pusey, Joshua, Philadelphia, Pa., assignor to G. A. Goldsmith, New York, N. Y. Eraser	338,299	Mar. 23	1913	504	34	1294
Pusey, Joshua, Philadelphia, Pa., assignor to G. A. Goldsmith, New York, N. Y. Pocket-knife	338,612	Mar. 23	2338	612	34	1368
Pushee, George D., Somerville, Mass. Shaving-brush	350,502	Oct. 12	569	157	37	111
Putman, John H., Daingerfield, Tex. Plow	335,537	Feb. 2	621	163	34	551
Putnam, Charles F., Fitchburg, Mass. Puppet-valve	339,809	Apr. 13	1033	256	35	189
Putnam, Donia C., Wayne Centre, N. Y. Oscillating engine	334,282	Jan. 12	1130	303	34	218
Putnam, Edwin, Newark, N. J., and J. Kirschbaum, assignors to Novelty Manufacturing Company, Waterbury, Conn. Holder for matches	348,688	Sept. 7	217	57	36	1086

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Putnam, George W., Malden, Mass. Fire escape	342,810	June 1	48	13	35	1015
Putnam, John P., Boston, Mass. Set-basin or similar fixture	341,498	June 29	2457	631	35	1481
Putnam, Salmon W. Fitchburg, Mass. Metal-planing machine	336,065	Feb. 9	1373	363	34	693
Putnam, Theodore A. B., assignor of one-half to W. Courtenay, New York, N. Y. Underground conduit	335,091	Jan. 26	2227	591	34	432
Putnam, William B., and H. C. Hoffman, Lamar, Mo.; said Hoffman assignor to said Putnam. Pocket-book	334,609	Jan. 19	1580	421	34	306
Putnam & Wineman. (See Bradbeer, Thomas J., assignor.)						
Püttmann, Eduard, and J. Fliegel, Hagen, Prussia, Germany. Enameling metallic roofing-plates	336,157	Feb. 16	1534	404	34	726
Putzeys, Désiré, Brussels, Belgium. Fire-extinguisher for chimneys	345,447	July 13	907	227	36	168
Putzker, Wilhelm. (See Zemann, Anton, assignor.)						
Pye, George, Ottawa, Ontario, Canada. Reaping and mowing machine	351,400	Oct. 26	1879	489 / 490	37	360
Pye, Thomas F., and C. D. Flint, Burlington, Vt.; said Flint assignor to said Pye. Music-leaf turner	343,966	June 15	1710	437	35	1333
Pyke, David, Philadelphia, Pa. Compound water-gage for steam-boilers	347,303	Aug. 10	1151	308	36	684
Pyle, Emma A., New Orleans, La., assignor to H. K. Anderson, Nashville, Tenn. Corset-fastening	346,442	July 27	2342	602	36	446
Pyle, George C., Dayton, Ohio, assignor to American Electric Head Light Company, Indianapolis, Ind. Electric-arc lamp for locomotive head lights	346,561	Aug. 3	138	38, 39	36	487
Pyle, George C., Cuyahoga Falls, Ohio, assignor to American Electric Head Light Company, Indianapolis, Ind. Electric-arc light	353,643	Nov. 30	2718	726	37	997
Pyle, Richard, Plymouth, Pa. Car-coupling	349,261	Sept. 14	992	253	36	1235
Pyle, William M., Chillicothe, Ill., assignor to Baldwin, Miller & Co., Indianapolis, Ind. Spectacles	347,738	Aug. 17	1784	475	36	810
Pynchon, Edwin. (See Moon and Pynchon.)						
Quackenbush, Andrew W., Peru, Ind. Smoke-jack	349,318	Sept. 21	1053	269	36	1255
Quackenbush, George, Bath, N. Y. Snap-hook	349,003	Sept. 14	644	166	36	1169
Quackenbush, Henry M., Herkimer, N. Y. Breech-loading gun	336,586	Feb. 23	2145	562	34	841
Quackenbush, Jay L., Portland, Oreg. Fence-post	345,075	July 6	386	97	36	70
Quatermass, Reuben, Moline, Kans. Painting-machine	344,134	June 22	1952	499	35	1383
Quatermass, Reuben, Moline, Kans. Car-brake attachment	355,100	Dec. 28	2104	553	37	1419
Quatermass, Reuben, and H. R. Ellsworth, Moline, Kans. Draw-bridge gate	350,696	Oct. 12	844	227	37	160
Queen & Co., James W. (See Brown, Daniel V., assignor.)						
Queen, Thomas H., Truro, Iowa. Rack for feeding cattle	343,491	June 8	1066	266	35	1207
Quigley, Andrew P., assignor of one-half to J. L. Weeks, Jamestown, N. Y. Wrench	341,503	May 11	737	199	35	649
Quigley, Charles E., Oakland, Cal. Device for tapping cans	344,199	June 22	2047	524	35	1400
Quigley, George, St. Louis, Mo. Machine for making paper boards	333,781	Jan. 5	391	106	34	74
Quilliam, Thomas, London, England. Cartridge-magazine	340,732	Apr. 27	2342	617	35	438
Quimby, Edward E., Orange, assignor to F. O. Matthiessen & Wiechers Sugar Refining Company, Jersey City, N. J. Continuous filter for purifying sugar-liquors by bone-black	335,622	Feb. 9	751	200	34	582
Quimby, Edward E., Orange, assignor to F. O. Matthiessen & Wiechers Sugar Refining Company, Jersey City, N. J. Draining device for upwardly-acting bone-black filters	340,005	Apr. 13	1300	325	35	239
Quinby, Benjamin F., Boston, Mass. Rotary brush for finishing boots and shoes	353,038	Nov. 23	1827	492	37	823
Quinby, Watson F., Wilmington, Del. Two-wheeled vehicle	350,992	Oct. 19	1290	338	37	248
Quincey, Mark. (See Orput, James M., assignor.)						
Quincy Metal Wheel Company. (See Little, James R., assignor.)						
Quinlan, William, Punta Arenas, Cal. Boot-jack attachment	346,682	Aug. 3	290	80	36	517
Quinlan, William J. (See Chambers, William B., assignor.)						
Quinn, Edward. (See Brueningsen and Quinn.)						
Quinn, Hiram W. (See Littleton, Charles M., assignor.)						
Quinn, James, Jr., Grand Rapids, Mich. Manufacture of whiting	346,768	Aug. 3	391	.....	36	537
Quinn, John, Elizabethport, N. J. Railway-switch	344,544	June 29	2528	653	35	1494
Quirin, Georges, assignor of one-third to S. R. Klotts, Columbus, Ohio. Duplex wire-nail machine	349,054	Sept. 14	712	182	36	1181
Quirin, Peter P., St. Clair, Pa. Hydrant	341,687	May 11	1003	265	35	702
Quisenberry, Leonidas, Carrollton, Mo. Car-coupling	345,319	July 13	722	183	36	137
Raabe, Franz, *et al.* (See Raabe and Zimmermann, assignors.)						
Raabe, Max, and F. H. Zimmermann, Halle-on-the-Saale, Prussia, assignors of one-half to F. Raabe, Eutritzsch, near Leipsic, and F. W. I. Houckes, Leipsic, Germany. Machinery for breaking fibrous plants and separating out the fibers	342,631	May 25	2326	614	35	960
Rabiger, C. Robert G. (See Rabiger, Emil A. E. and C. R. G.)						
Rabiger, Emil A. H. and C. R. G., Philadelphia, Pa. Awning	338,875	Mar. 30	2731	718 / 719	34	1444
Rabing, John, *et al.* (See Michel, Philip, assignor.)						
Rabitz, Carl, Berlin, Germany. Receptacle for the preservation of grain and succulent materials	339,211	Apr. 6	136	36	35	27
Rabut, Charles O., New York, N. Y. Automatic water-feeder for steam-boilers	353,862	Dec. 7	328	86	37	1067
Raby, Zachariah, Nashua, N. H. Shuttle-binder for looms	344,608	June 22	1764	454	35	1350
Radam, William, Austin, Tex. Composition for preserving food	349,900	Sept. 28	1874	.....	36	1421
Radcliff, Elias F. (See Hachenberg and Radcliff.)						
Raddin, John, Lynn, Mass. Vehicle-hub and axle-coupling	334,049	Jan. 12	769	210	34	151
Rader, Gustavus W., *et al.* (See Perry, Charles A., assignor.)						
Rader, Powell, Georgetown, Tex. Rock-drill	355,278	Dec. 28	2358	620	37	1469
Radford, Benjamin F., Hyde Park, Mass. Belt-controller for dynamo-machines	350,154	Oct. 5	80	23	37	17
Radford, Charles W., Oshkosh, Wis. Window-blind	346,220	July 27	2021	521	36	388
Radford, William, Philadelphia, Pa. Brick-kiln	348,413	Aug. 31	2752	739	36	1006
Radney, Alvah B. (See Hamilton, Miles E., assignor.)						
Radway, Marcious C., Ripon, Wis. Window-screen	339,691	Apr. 13	883	217	35	162
Radway, Samuel H., Berlin, Wis. Windmill	349,742	Sept. 28	1665	430	36	1389
Radzinsky, Louis D., McKeesport, Pa. Stethoscope	350,393	Oct. 5	383	110	37	77
Radzinsky, Louis D., McKeesport, Pa., assignor of two-thirds to C. A. Snow, E. G. Siggers, Washington, D. C., and A. Curtin, Roland, Pa. Changeable button	353,039	Nov. 23	1828	492	37	823
Rae, John, New York, assignor to G. H. Clarke, Brooklyn, N. Y. Steam-engine indicator	348,414	Aug. 31	2753	739	36	1007
Raeuchle, William, Boston, Mass. Button-hole sewing-machine	341,168	May 4	274	78	35	555
Rafter Embroidery Machine Company. (See Rafter, Madison A., assignor.)						
Rafter, Madison A., assignor to Rafter Embroidery Machine Company, Lockport, N. Y. Fabric-turfing implement	337,196	Mar. 2	419	109	34	1003
Ragot, Gaston, and G. Smyers, assignors to Société Anonyme des Moteurs Inexplosibles au Pétrole Ordinaire et au Gaz, Brussels, Belgium. Petroleum and gas motor	350,769	Oct. 12	938	252 / 253	37	178
Rahn, Carl H., Chicago, Ill. Zither	336,158	Feb. 16	1535	404 / 405	34	726
Rahsskopff, Carl, assignor to Schmidt Label and Lithographic Company, San Francisco, Cal. Machine for drying varnished labels	335,771	Feb. 9	969	257 / 258	34	621

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Raidabaugh, George P. (See Williams and Raidabaugh.)						
Raifsnyder, William H. F., assignor of one-half to J. W. Plimpton, Oil City, Pa. Auger-handle	350,841	Oct. 12	1054	282	37	199
Railway Register Company. (See Meaker, John W., assignor.)						
Railway Speed Recorder Company. (See Hawkins, J. Wesley, assignor.)						
Railway Speed Recorder Company. (See Leeds, Pulaski, assignor.)						
Railway Speed Recorder Company. (See Wilkins and Bartlett, assignors.)						
Railway Telegraph and Telephone Company. (See Edison and Gilliland, assignors.)						
Railway Telegraph Company. (See Phelps, Lucius J., assignor.)						
Railway Water Hoist Company. (See Houlehan, James, assignor.)						
Raines, Solomon M., Logansport, Ind. Baker's oven	340,354	Apr. 20	1815	465	35	338
Rainey, William H. (See Lewis and Rainey.)						
Rainville, Nary D., Braidwood, Ill. Show-stand	345,602	July 13	1144	{292, 293}	36	211
Rairigh, Jacob C., Brockwayville, Pa. Cylinder printing-machine	347,513	Aug. 17	1452	{385, 386}	36	748
Rakestraw, William H. (See Beard, George M., assignor.)						
Rakow, Louis, assignor to W. H. Litchfield, Elmhurst, Ill. Spoke-driver	335,308	Feb. 2	311	82	34	497
Raleigh Manufacturing Company. (See Steinle, William M., assignor.)						
Ralph, Samuel W., Mecca, Ohio. Calendar-clock	354,346	Dec. 14	1030	274	37	1201
Ralston, David, Troy, N. Y. Machinery for sanding brick-molds	334,610	Jan. 19	150	421	34	306
Ralston, Joseph, Brenham, Tex. Cotton-gin	351,401	Oct. 26	1881	{490, 491}	37	361
Ralu, Adrien, Fils, Paris, assignor to himself, H. A. Browne, New Brighton, and J. Grathvohl, Paris, France. Preparing and treating sirups and molasses	335,240	Feb. 2	221	.....	34	480
Ramel, Alfred, and W. W. Dean, assignors of one-half to P. Bakewell, St. Louis, Mo. Clock-synchronizing device	346,862	Aug. 3	512	{140, 141}	36	560
Ramel, Alfred, and W. W. Dean, assignors of one-half to P. Bakewell, St. Louis, Mo. Circuit-closer for primary electric clocks	346,863	Aug. 3	513	141	36	560
Ramsey, William L. (See Hovey, Frank A., assignor.)						
Rammoser, Albert, Berlin, Germany. Corset	343,338	June 8	838	211	35	1166
Rampe, William, Jr., Ottawa, Ohio. Label	334,981	Jan. 26	2066	551	34	403
Rams, Tillman, assignor of one-half to E. H. Fenton, Kansas City, Mo. Carriage-top prop.	344,135	June 22	1954	499	35	1383
Ramsay, Charles W., Brooklyn, assignor to Ramsay Purifying Company, New York, N. Y. Treating fermented, fermentable, and distilled liquids in vacuo	347,441	Aug. 17	1357	361	36	730
Ramsay, James, Cleveland, Ohio. Button-fastener	339,467	Apr. 6	508	123	35	94
Ramsay Purifying Company. (See Ramsay, Charles W., assignor.)						
Ramsay, Richard, Braceville, Ill. Apparatus for distributing coal in cars	344,595	June 29	2588	{670, 671}	35	1507
Ramsay, Richard, Braceville, Ill. Apparatus for stopping cars	348,773	Sept. 7	321	85	36	1107
Ramsdell, Ildo, Atlanta, Ga. Ink	345,448	July 13	908	.....	36	169
Ramsden, John W., and H. S. Ellis, Leeds, county of York, England. Sewing-machine	348,474	Aug. 31	2841	{764, 765, 766}	36	1023
Ramser, Paul, Montezuma, Iowa. Holder for envelopes, &c	340,355	Apr. 20	1815	465	35	338
Ramsey, Andrew J., Liberty Centre, Ind. Churn	340,154	Apr. 20	1507	384	35	282
Ramsey, George M., Clokey, Pa. Plow	341,504	May 11	739	199	35	650
Ramsey, Grant L. (See Jordan and Cole, assignors.)						
Ramsey, Haley S., Comanche, Tex. Balanced pump	340,241	Apr. 20	1642	416	35	306
Ramsey, Haley S., Comanche, assignor of one-half to G. D. Streeter, Waco, Tex. Double-acting pump	350,770	Oct. 12	942	253	37	179
Ramsey, Jacob E. (See Roberts, Marion M., assignor.)						
Ramsey, John W., assignor of one-half to J. Corbus, Beaver Falls, Pa. Fluid-regulating valve	340,458	Apr. 20	1939	498	35	360
Ramsey, John W., assignor of one-half to J. Corbus, Beaver Falls, Pa. Fluid-pressure-regulating valve	352,890	Nov. 16	1604	432	37	774
Ramsey, William. (See Barth and Ramsey.)						
Ramsey, William V., Flemington, N. J. Horse-tail supporter	349,120	Sept. 14	805	204	36	1198
Ranck, Adam E., New Holland, Pa. Coffin	354,437	Dec. 14	1142	305	37	1222
Rand, Walter M., Olney, Ill. Feed mechanism for roller-mills, &c	339,468	Apr. 6	509	124	35	94
Randall, Alfred H., assignor of one-half to H. H. Leuchsenring, Philadelphia, Pa. Lathe-center-grinding machine	349,602	Sept. 21	1457	375	36	1334
Randall, Amelia A. (See Randall, Silas G., assignor.)						
Randall, Bellville L., Boston, Mass. Car-brake	337,616	Mar. 9	1000	257	34	1113
Randall, Benjamin F., Fall River, Mass. Sheet-metal fence-post	349,603	Sept. 21	1459	375	36	1334
Randall, Charles A., New York, N. Y. Telephone	336,744	Feb. 23	2364	{618, 619}	34	882
Randall, Frederick E., Boston, Mass. Clasp	341,276	May 4	424	116	35	583
Randall, Frederick E., Boston, Mass. Buckle	342,537	May 25	2193	581	35	936
Randall, Frederick E., Boston, Mass. Garment-clasp	352,778	Nov. 16	1452	391	37	745
Randall, George H., Jersey City, N. J. Printer's form-clamp	338,777	Mar. 30	2598	685	34	1419
Randall, George W., Boston, Mass. Door-check	349,604	Sept. 21	1460	376	36	1335
Randall, George W., assignor, by mesne assignments, to himself and M. Bachert, Boston, Mass. Door-check	342,224	May 18	1707	455	35	842
Randall, Harry A., Terryville, Conn. Copper-tipped hammer	334,283	Jan. 12	1132	304	34	218
Randall, Henry R., Brooklyn, N. Y. Separating the fiber of cocoons	335,958	Feb. 9	1229	.....	34	668
Randall, Henry R., Brooklyn, N. Y. Apparatus for treating fiber plants or material for the production of fibers	342,842	June 1	95	24	35	1023
Randall, Henry R., Brooklyn, N. Y. Manufacture of fiber from fiber plants	342,843	June 1	96	24	35	1023
Randall, Henry R., Brooklyn, N. Y. Treatment of tussah-silk cocoons	354,222	Dec. 14	845	.....	37	1168
Randall, Henry R., Brooklyn, N. Y. Treatment of silk fibers	354,223	Dec. 14	846	.....	37	1168
Randall, Isaac H. (See Higgins, Boynton J., assignor.)						
Randall, Isaac H., Boston, Mass. Street-clearing machine	354,224	Dec. 14	847	{224, 225}	37	1168
Randall, James F., South Haven, Mich. Harness	339,929	Apr. 13	1193	297	35	219
Randall, Jason L., assignor to Winchester Repeating Arms Company, New Haven, Conn. Magazine fire-arm	343,492	June 8	1067	266	35	1207
Randall, Marvin K., Stedman, N. Y. Device for holding milk-pails	354,438	Dec. 14	1142	305	37	1222
Randall, Norman B., Philadelphia, Pa. Gas-engine	355,101	Dec. 28	2105	553	37	1419
Randall, Otis D., Austin, Ill. Button-shoe	340,924	Apr. 27	2591	683	35	483
Randall, Silas G., assignor to A. A. Randall, Greene, N. Y. Combined disk harrow and seeder	333,670	Jan. 5	224	62	34	44
Randall, Timothy P., *et al.* (See McKinster, Frank, assignor.)						
Randall, William H., assignor to T. W. Herron, Fredericksville, Ill. Draft-equalizer	354,225	Dec. 14	849	225	37	1168

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Randel, Charles D., Troy, N. Y. Curry-comb	335,772	Feb. 9	974	258	34	622
Randel, Franklin E., New York, N. Y. Hat-sweat	351,402	Oct. 26	1883	491	37	361
Randle, William H., Glasco, Kans. Weather-strip	344,921	July 6	174	45	36	33
Randles, John W., *et al.* (See Randles, Spencer C., assignor.)						
Randles, Spencer C., assignor of one-half to J. W. Randles and N. Finley, Buffalo, Mo. Churn-motor	341,945	May 18	1338	358	35	773
Randolph, George W., Memphis, Tenn. Cotton-scraper	341,688	May 11	1066	265	35	702
Randolph, James L., Martinsburg, W. Va. Treadle attachment	346,562	Aug. 3	141	39	36	488
Randolph, Jane E., Rochester, Ohio. Kitchen-cabinet	354,894	Jan. 26	1950	519	34	383
Randolph, Mahlon, New York, N. Y., assignor to Randolph Manufacturing Company. Journal-bearing	349,055	Sept. 14	716	183	36	1182
Randolph, Mahlon, New York, N. Y., assignor to Randolph Manufacturing Company. Journal-bearing	349,056	Sept. 14	717	183	36	1182
Randolph, Mahlon, New York, N. Y., assignor to Randolph Manufacturing Company. Journal-bearing	349,057	Sept. 14	719	183	36	1182
Randolph Manufacturing Company. (See Randolph, Mahlon, assignor.)						
Randolph, Sarah N., Baltimore, Md. Match and cigarette box	353,327	Nov. 30	2235	599	37	909
Randolph, William K., Philadelphia, Pa. Combined shirt and vest	340,356	Apr. 20	1816	466	35	338
Randon, François, New Orleans, La., assignor, by mesne assignments, of one-half to V. M. T. Johnson, New York, N. Y. Apparatus for the production of pure sulphurous gas	337,197	Mar. 2	420	110	34	1004
Range, Gustav, assignor to S. Range, New York, N. Y. Cabinet for sewing-machines	349,176	Sept. 14	877	224, 225	36	1212
Range, James, Nottingham, England, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Machine for clipping lace and other fabrics	353,586	Nov. 30	2616	698, 699	37	980
Range, James, Nottingham, England, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Machine for clipping lace, &c	353,587	Nov. 30	2620	699, 700	37	981
Range, Sophie. (See Range, Gustav, assignor.)						
Rank, George, Salem, Ohio. Harness-saddle	351,282	Oct. 19	1674	430	37	319
Rankin, Abram G. W., Hudson, N. J., assignor to W. H. Jewell, New York, N. Y. Packing for steam-condenser tubes	337,434	Mar. 9	774	197	34	1073
Rankin, Abram G. W., Jersey City, N. J., assignor to C. Goddard, New York, N. Y. Domestic water-distilling apparatus	346,221	July 27	2022	522	36	388
Rankin, Andrew N., Jamaica, N. Y. Cold-packed pipe-joint and producing the same	347,060	Aug. 10	801	213	36	621
Rankin, George B., Waukegan, Ill. Incubator	344,200	June 22	2047	524	35	1400
Rankin, Thomas, *et al.* (See Komp, John F., assignor.)						
Rankin, Thomas L., New York, N. Y., assignor to J. W. Skinkle, Chicago, Ill. Ice-machine	354,734	Dec. 21	1588	419, 420	37	1310
Rankin, William H., Lawrence, Mass. Carding-machine	336,587	Feb. 23	2146	562	34	841
Rankins, William J., Augusta, Ky. Garden implement	348,774	Sept. 7	322	86	36	1107
Rannells, Jacob. (See Irvin, Andy B., assignor.)						
Ranney, David F., Northampton, Mass. Machine for sharpening pencils	340,818	Apr. 27	2453	645	35	459
Ranney, David F., Florence, Mass. Pencil-sharpening machine	350,394	Oct. 5	385	111	37	77
Ransom, Albert F., *et al.* (See Hayes, Miles T., assignor.)						
Ransom, Albert F., Burlington, Wis. Blind for bridles	334,050	Jan. 12	770	211	34	151
Ransom, Frances A., East Palatka, Fla. Combination of blind and wire screens	336,944	Mar. 2	84	23	34	942
Ransom, Hiram W., assignor of one-half to Emerson & Fisher Company, Cincinnati, Ohio. Carriage-top	345,729	July 20	1338	348	36	254
Ransom, Martin, assignor to Eldredge Manufacturing Company, Chicago, Ill. Sewing-machine shuttle and bobbin	353,588	Nov. 30	2623	700	37	981
Ransom, Newman A., assignor of one-half to J. F. Greenleaf, Chicago, Ill. Gas-burner and carburetor	333,671	Jan. 5	229	62, 63	34	45
Ransome, Ernest L., San Francisco, Cal. Concrete-mold for walling wells, &c	349,058	Sept. 14	719	183, 184	36	1182
Ransome, Ernest L., San Francisco, Cal. Concrete-mold for subways for cable roads, ditches, &c	353,500	Nov. 30	2492	665, 666	37	957
Ransome, Ernest L., San Francisco, Cal. Brick	353,501	Nov. 30	2495	.....	37	957
Ransome, Frederick, Lower Norwood, county of Surrey, England. Manufacturing cement, &c	340,357	Apr. 20	1817	466	35	338
Ranson, Joseph W., and J. L. H. Barr, Batavia, Ohio. Book-holder	337,435	Mar. 9	775	197	34	1073
Rapallo, Edward S., *et al.* (See Secor, Jerome B., assignor.)						
Raper, James, M. Pearson, and F. Gill, Royal Victor Place, Old Ford Road, county of Middlesex, England. Hair or other brush	354,583	Dec. 21	1359	360, 361	37	1268
Raphael, M. (See Devereaux and Murphy, assignors.)						
Rapp, August, Pullman, assignor to G. M. Pullman, Chicago, Ill. Draw-hook for street-cars	351,793	Nov. 2	90	25	37	475
Rapp, Frederick, Chicago, Ill. Watch-case hinge	344,859	July 6	91	24	36	17
Rapp, John V. B., New York, N. Y. Ground-marker	345,730	July 20	1339	348	36	254
Rapp, Joseph, Akron, Ohio. Hub-cap	353,709	Dec. 7	81	22	37	1021
Rappleyea, Nicholas. (See Sparks and Rappleyea.)						
Rappleyea, Nicholas, and W. A. Sparks, Rochester, N. Y. Burial-casket	347,739	Aug. 17	1785	475	36	810
Rappleyea, Nicholas, and W. A. Sparks, Rochester, N. Y. Coffin. (Reissue)	10,774	Oct. 26	2354	612	37	450
Rarick, Peter. (See Ford and Rarick.)						
Rarig, Alexander K., and J. Derthick, Columbus, Ohio. Mining-machine	346,172	July 27	1954	504	36	374
Rasmussen, Knud, assignor to Pond Machine Tool Company, Worcester, Mass. Car-wheel and axle-lathe	353,814	Dec. 7	229	61, 62	37	1048
Rasmussen, Knud, assignor to Pond Machine Tool Company, Worcester, Mass. Driving-dog for turning-lathes	353,815	Dec. 7	231	62	37	1049
Rasmussen, Rasmus, Chicago, Ill. Rotary engine	338,778	Mar. 30	2600	685	34	1420
Rath, Henry, Jr. (See Davis and Rath.)						
Rathbun, Edward W., Deseronto, Ontario, Canada. Automatic apparatus for carbonizing sawdust and production of gas	353,960	Dec. 7	459	124	37	1090
Rathbun, James B., and E. A. Burgess, New Haven, Conn.; said Burgess assignor to said Rathbun. Railway-signal	349,954	Sept. 28	1946	563	36	1435
Rathbun, John B. (See Kelsey, Frank N., assignor.)						
Ratliff, John W., Lewisville, Tex. Seed-planter	335,959	Feb. 9	1229	327	34	668
Rau, Eugene, assignor to J. G. Watmough, Philadelphia, Pa. Apparatus for dyeing	347,959	Aug. 24	2116	564	36	879
Rauh, Samuel, New York, N. Y. Combined shoe and stocking	347,442	Aug. 17	1358	361	36	730
Raughtigan, Michael, assignor of one-half to F. C. Turner, Norwich, Conn. Clothes-line prop	344,402	June 29	2326	599	35	1458
Rauschelbach, Gustav A., Hord, Mo. Combined end-gate and scoop-board	339,692	Apr. 13	885	217	35	162
Ravekes, David, San Francisco, Cal. Apparatus for cooling white lead	335,773	Feb. 9	975	258	34	622
Raven, Gustav, Dresden, Saxony, Germany. Smoke-consuming furnace	337,436	Mar. 9	776	198	34	1073
Rawbone, Joseph L., assignor of two-thirds to W. G. Rawbone and C. M. Edwards, Toronto, Ontario, Canada. Keyless canvas-stretcher	335,480	Feb. 2	544	143	34	538

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Rawbone, William G., *et al.* (See Rawbone, Joseph L., assignor.)						
Rawle, James (See Brill, George M., assignor.)						
Rawle, James. (See Brill and Rawle.)						
Rawlings, Rudd M., and C. A. Williamson, St. Louis, Mo. Street-car	337,617	Mar. 9	1001	257	34	1113
Raworth, John S., Manchester, county of Lancaster, assignor to Siemens Brothers & Company, (limited,) 12 Queen Anne's Gate, Westminster, county of Middlesex, England. Electric meter	338,549	Mar. 23	2252	591, 592	34	1354
Raworth, John S., Manchester, county of Lancaster, assignor to Siemens Brothers & Company, (limited,) Westminster, county of Middlesex, England. Automatic electric coupler	338,550	Mar. 23	2253	592, 593	34	1354
Rawson, Edmund G. (See Stearns, Henry F., assignor.)						
Rawson, George W., and G. E. Worthen, Cambridge, Mass. Hoisting apparatus	337,866	Mar. 16	1320	343	34	1176
Ray, Frank B., Kansas City, Mo., assignor to himself and H. C. Stayer, Chicago, Ill. Pulley-belter	346,067	July 20	1810	467	36	337
Ray, Mitchell M., Bellefonte, Pa. Umbrella	348,584	Sept. 7	70	20	36	1060
Ray, William F., Springfield, Mass. Electric signaling apparatus for railway-trains	338,439	Mar. 23	2115	554	34	1329
Raydt, Wilhelm (See Schmitz, Albert, assignor.)						
Rayl, James S., Green Camp, Ohio. Hay-stacker	334,193	Jan. 12	985	265	34	190
Rayment, William L., Kalamazoo, Mich. Platform spring-wagon gear	349,743	Sept. 28	1667	430	36	1380
Raymond, Albert. (See Raymond, George and A.)						
Raymond, Charles W., Dayton, Ohio. Brick-machine	354,226	Dec. 14	849	225	37	1168
Raymond, Daniel E., Dixon, Ill. Tile and brick machine	336,434	Feb. 16	1937	568	34	799
Raymond, F. F., 2d, *et al.*, trustees. (See Anthony, Edgar W., assignor.)						
Raymond, Frances V., Buffalo, N. Y. Beating and mixing machine	354,934	Dec. 28	1870	494	37	1375
Raymond, Francis F. (See Wilson, William C., assignor.)						
Raymond, Freeborn F., 2d. (See Towns and Raymond.)						
Raymond, Freeborn F., 2d, Newton, Mass. Attaching heels	335,241	Feb. 2	222	58	34	480
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	335,242	Feb. 2	223	59	34	480
Raymond, Freeborn F., 2d, Newton, Mass. Boot or shoe sole	340,358	Apr. 20	1819	466	35	339
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	341,169	May 4	276	79	35	555
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	341,689	May 11	1007	266	35	702
Raymond, Freeborn F., 2d, Newton, Mass. Nailing-machine	342,039	May 18	1462	391, 392	35	796
Raymond, Freeborn F., 2d, Newton, Mass. Spring-heel blank	342,461	May 25	2078	548	35	916
Raymond, Freeborn F., 2d, Newton, Mass. Nail-making machine	342,929	June 1	218	56	35	1045
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	343,339	June 8	838	211, 212, 213	35	1166
Raymond, Freeborn F., 2d, Newton, Mass. Attaching heels	343,728	June 15	1411	352	35	1275
Raymond, Freeborn F., 2d, Newton, Mass. Shoe-nail	344,136	June 22	1955	499	35	1384
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	344,499	June 29	2459	632, 633	35	1481
Raymond, Freeborn F., 2d, Newton, Mass. Nail-making machine	344,985	July 6	266	67, 68, 69	36	48
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	345,449	July 13	908	227, 228	36	169
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	345,920	July 20	1608	414	36	302
Raymond, Freeborn F., 2d, Newton, Mass. Sole-nailing machine	346,124	July 27	1878	485, 486, 487	36	360
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	346,125	July 27	1882	487, 488	36	361
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	346,607	Aug. 3	199	53, 54	36	499
Raymond, Freeborn F., 2d, Newton, Mass. Heel-attaching machine	347,061	Aug. 10	803	213, 214	36	621
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	347,062	Aug. 10	808	214, 215, 216	36	621
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	347,063	Aug. 10	813	216, 217	36	622
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	347,514	Aug. 17	1454	386	36	748
Raymond, Freeborn F., 2d, Newton, Mass. Nail making and distributing machine	347,960	Aug. 24	2117	564, 565	36	879
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	348,689	Sept. 7	219	58	36	1087
Raymond, Freeborn F., 2d, Newton, Mass. Sole and heel nailing machine	353,883	Dec. 7	330	86, 87, 88, 89	37	1068
Raymond, Freeborn F., 2d, Newton, Mass. Spring heel-blank	354,227	Dec. 14	851	226	37	1169
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	354,655	Dec. 21	1477	392	37	1329
Raymond, Freeborn F., 2d, Newton, Mass. Heel and attaching the same	355,027	Dec. 28	1992	524	37	1357
Raymond, George and A., Chicago, Ill. Grinding-mill	348,585	Sept. 7	71	20, 21	36	1060
Raymond, George and A., Chicago, Ill. Grinding-disk for mills	348,637	Sept. 7	144	40	36	1073
Raymond, George and A., Chicago, Ill. Grinding-mill	353,710	Dec. 7	88	22 23	37	1021
Raymond, George and A., Chicago, Ill. Horse-power	353,967	Dec. 7	461	125	37	1090
Raymond, George and A., Chicago, Ill. Grinding-mill	354,228	Dec. 14	852	226	37	1169
Raymond, George E. (See Sherck and Batig, assignors.)						
Raymond, James N. (See Heiss, Charles E., assignor.)						
Raymond, Orson S., New Cassel, Wis. Bob-sled	343,200	June 8	616	153	35	1128
Raymond, Perley B., Indianapolis, Ind. Lumber-drier	338,440	Mar. 23	2118	554	34	1329
Raymond, Pierre A., assignor to Perrin Frères, Grenoble, France. Button	319,453	Sept. 21	1259	326	36	1294
Raymond, Silas H., Grand Rapids, Mich., assignor of one-half to E. Doty, Chicago, Ill. Furniture-caster	342,930	June 1	220	56	35	1045
Raymond, William J., Cherry Vale, Kans. Wire-fence machine	339,469	Apr. 6	512	124	35	95
Raymond, William J., Cherry Vale, Kans. Wire-fence machine	348,775	Sept. 7	323	86	36	1107
Rayner, George, Hackney, county of Middlesex, England. Lamp-extinguisher	343,851	June 15	1560	395	35	1304
Rayner, George W. (See Robertson, Harry, assignor.)						
Rea, Edward F., Manchester, Minn. Nut-lock	354,735	Dec. 21	1590	420	37	1310
Reach, Robert, *et al.* (See Merrill, William E. T., assignor.)						
Read, Charles H., Jr., Washington, D. C. Passenger-elevator	348,586	Sept. 7	73	22	36	1061
Read, Daniel M. (See Hood, Gustave, assignor.)						
Read, Walter G. (See Pace and Read.)						
Read, William, Jr., assignor, by mesne assignments, to Boston Trans-Phototype Company, Boston, Mass. Transparency	346,864	Aug. 3	515	141	36	560

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Reade, Charles A., Chicago, Ill. Hansom-cab	342,632	May 25	2327	614	35	961
Reade, Henry W., Chicago, Ill Cabinet for holding paper-files	338,300	Mar. 23	1915	504	34	1295
Reading Hardware Company. (See Chantrell, John, assignor.)						
Ready, William D., Brooklyn, N. Y. Temporary binder	343,066	June 1	411	105	35	1081
Reafstahl, Charles, Pullman, Ill. Side spring for molding-machines	354,229	Dec. 14	853	226	37	1169
Reagan, Henry C., Salisbury, Mo. Traction-wheel	339,012	Mar. 30	2935	777	34	1480
Ream, Hiram W., Canton, Ohio. Crate	347,198	Aug. 10	999	266	36	657
Ream, Theodore J (See Baker, William N., assignor.)						
Reams, Andrew J., Augusta, Kans. Electric programme clock	349,605	Sept. 21	1461	376	36	1335
Reams, Joseph M., Curwensville, Pa. End-gate fastener	339,470	Apr. 6	513	124	35	95
Reamy, Thomas J., Nashville, Tenn. Head-block for saw-mills	334,284	Jan. 12	1133	304	34	218
Reamy, Thomas J., Nashville, Tenn. Feed mechanism for saw-mills	334,285	Jan. 12	1135	304	34	219
Reaney, Robert M., Harlem, Ga. Cotton, corn, and pea planter	341 505	May 11	739	199	35	650
Reardon, Timothy H. (See Demo and Reardon.)						
Reaser, Eben N. (See Reaser, Matthew H., J. G., and E. N.)						
Reaser, Joseph G. (See Reaser, Matthew H., J. G., and E. N.)						
Reaser, Matthew H., J. G., and E. N., St. Louis, Mo. Shutter-fastener	335,960	Feb. 9	1230	327	34	668
Reaves, Timothy D., Farmington, Ky. Animal-poke	345,889	July 20	1524	394	36	285
Reaves, William B., assignor of one-half to J. W. Crowley, Friar's Point, Miss. Washing-machine	348,776	Sept. 7	323	86	36	1108
Rebbeck, Henry H., Cleveland, Ohio. Attachment for fire-alarm boxes	337 498	Mar. 2	422	110	34	1004
Rebentisch, Oswald, Salem, Va. Mechanical clock	344,922	July 6	175	45	36	33
Reckinger, Peter. (See Clement, Engel, assignor.)						
Recordon, Ernest, Paris, France. Electric motor for sewing-machines	353,003	Nov. 23	1769	476	37	813
Recordon, Ernest F., Paris, France. Electric motor	344,659	June 29	2694	699	35	1527
Rector, John R., Salado, Tex. Cotton-chopper	351,526	Oct. 26	2065	535	37	397
Red, William C., *et al.* (See Rhyne, James T., assignor.)						
Reddaway, Frank, Pendleton, county of Lancaster, England. Woven belting	334,895	Jan. 26	1951	519	34	383
Reddy, James F. (See Warburton, George, assignor.)						
Reddy, James M., Chicago, Ill. Gasoline-stove	347,379	Aug. 17	1264	335	36	714
Redick, Reubin F., Spencerville, Ohio. Clothes-drier	334,982	Jan. 26	2066	551, 552	34	403
Redington, William H., assignor of one-half to W. Rodiger, Chicago, Ill. Mucilage-bottle	336,945	Mar. 2	85	23	34	942
Redline, Joseph S., Derrs, Pa. Pivot-scale	334,051	Jan. 12	771	211	34	151
Redmayne, Thomas, Sheffield, county of York, England. Gas-burner for cooking purposes	344,986	July 6	270	69	36	48
Redmayne, Thomas, Sheffield, county of York, England. Gas-burner for cooking purposes	344,987	July 6	271	70	36	49
Redmond, Daniel M., assignor to J. and J. F. Conaway, Philadelphia, Pa. Machine for making umbrella-ribs	343,253	June 8	700	173, 174	35	1142
Reece, John, Boston, Mass. Button-hole-barring machine	349,358	Sept. 21	1118	289	36	1267
Reece, John, Boston, Mass. Button-hole sewing-machine	349,359	Sept. 21	1122	289, 290	36	1268
Reed, Benjamin B., Forestburg, Tex. Landside-cutter for plows	349,406	Sept. 21	1194	309	36	1282
Reed, Beverly S., Boston, Mass. Bustle	344,800	July 6	92	24	36	17
Reed, Brent M., Arlington, Md. Hen's nest	348,054	Aug. 24	2340	599	36	903
Reed, Brent M. M., Arlington, Md. Metallic time-card for letter-boxes	354,439	Dec. 14	1143	305	37	1222
Reed, Charles M. (See Beavers, Joshua H., assignor.)						
Reed, Clarence D. (See Waugh, Henry H., assignor.)						
Reed, Dallas, Anita, Iowa. Check-rower for corn-planters	345,176	July 6	518	133	36	94
Reed, Edwards A., Oliver Springs, Tenn. Flooring and ceiling clamp	334,611	Jan. 19	1581	421	34	306
Reed, Frank B., assignor to Bigler, Reed & Co., Clearfield, Pa. Car-axle	346,068	July 20	1811	467, 468	36	338
Reed, Franklin. (See Grant, Goodspeed, and Foote, assignors.)						
Reed, Frederick, Solomon City, Kans. Mechanical movement	334,806	Jan. 26	1847	492	34	364
Reed, Frederick E. (See Back, John R., assignor.)						
Reed, George W., assignor of one-half to D. O. Brown, Saltsburg, Pa. Gas-saving device	334,286	Jan. 12	1136	304	34	219
Reed, Henry. (See Walton, Richard, assignor.)						
Reed, J. Y. (See Stowe, Benjamin L., assignor.) (Reissue.)						
Reed, James H., and F. W. Beale, Lynn, Mass., assignors, by mesne assignments, to Globe Button Hole Machine Company, Portland, Me. Button-hole stitching and barring machine	355,028	Dec. 28	1994	524, 525, 526	37	1398
Reed, James W., Pittsburg, Pa. Paddle-wheel	350,395	Oct. 5	387	111	37	77
Reed, John A., Beatrice, Nebr. End-gate for wagons	352,301	Nov. 9	708	189	37	596
Reed, John R., Westfield, Mass. Radiator	347,127	Aug. 10	897	240	36	638
Reed, John R., Westfield, Mass. Rocking or rotating grate for furnaces, boilers, &c	354,230	Dec. 14	854	227	37	1169
Reed, John W., Chicago, Ill. Piano-string bridge	338,779	Mar. 30	2601	685	34	1420
Reed, Louis, Detroit, Mich. Machine for cutting head-linings for barrels	350,697	Oct. 12	845	228	37	161
Reed, Orrin S. (See Hine and Reed.)						
Reed, Robert A., Brooklyn, N. Y. Marine vessel	348,587	Sept. 7	75	22	36	1061
Reed, Robert A., Brooklyn, N. Y. Iron marine vessel	349,857	Sept. 28	1823	471	36	1411
Reed, Thomas, and J. Holloway, Covington, Ky. Roll for rolling-mills	344,403	June 29	2326	599	35	1458
Reed, Thomas B. (See Templeton and Reed.)						
Reed, W. C., *et al.* (See Finneran, Charles C., assignor.)						
Reed, Willard V., Lowville, N. Y. Car-coupling	351,794	Nov. 2	91	25	37	475
Reed, William A. (See Sleeper, George W., assignor.)						
Reed, William B. S., Brooklyn, N. Y. Operating mechanism for railway-switches	334,612	Jan 19	1582	421, 422	34	307
Reed, William B. S., Brooklyn, N. Y. Switch-lock and throw-bar	338,441	Mar. 23	2118	554	34	1330
Reed, William H. (See Templeton and Reed.)						
Reed, William T., Winnipeg, Manitoba, Canada. Spark-arrester	352,353	Nov. 9	905	242	37	633
Reeder, Edred A., assignor to G. F. Griffith, Dayton, Ohio. Electrical call	346,314	July 27	2156	554	36	413
Reeder, Horace G., Bordentown, N. J. Dredge-machine distributer	341,603	May 11	877	234	35	676
Reeder, John, Haynesville, La. Mole-trap	353,502	Nov. 30	2496	666	37	957
Reeder, William S., assignor to Kingsland & Ferguson Manufacturing Company, St. Louis, Mo. Feeder for thrashing-machines	349,606	Sept. 21	1463	376, 377	36	1335
Reeder, William S., assignor to Kingsland & Ferguson Manufacturing Company, St. Louis, Mo. Machine for mashing straw	349,607	Sept. 21	1464	377	36	1336
Reedy, John P., *et al.* (See Brubaker, John H., assignor.)						
Rees, B. F. (See Timms, James, assignor.)						
Rees, Charles S., Philadelphia, Pa. Bath-pad	346,773	Aug. 3	397	110	36	538
Rees, Frank, New York, N. Y. Repeating fire-arm	337,992	Mar. 16	1502	390	34	1208
Rees, Frank, New York, N. Y. Repeating fire-arm	337,993	Mar. 16	1508	390, 391	34	1209
Rees-Philipps, Henry, Birmingham, county of Warwick, England. Safety saddle-bar	345,540	July 13	1060	270	36	196

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Reese, Abram, Pittsburg, Pa. Apparatus for controlling the supply of fluid through pipes	341,170	May 4	278	80	35	556
Reese, Adam R., Phillipsburg, N. J. Tree-box	334,807	Jan. 26	1848	492	34	364
Reese, Evan C., Altoona, assignor to American Buttonhole, Overseaming, and Sewing Machine Company, Philadelphia, Pa. Combined ruffler and piping attachment for sewing-machines	339,693	Apr. 13	886	217	35	162
Reese, George C. Woodvale, Pa. Drawing metal	342,040	May 18	1465	393	35	796
Reese, Henry O., Baltimore, Md. Household sifter	351,203	Oct. 19	1574	413	37	302
Reese, Jacob, Pittsburg, Pa. Apparatus for drawing wire	338,359	Mar. 23	2000	526	34	1309
Reese, Jacob, Pittsburg, Pa. Machine for rolling metal rods	338,360	Mar. 23	2001	527	34	1310
Reese, Jacob, Pittsburg, Pa. Machine for reducing wire	338,361	Mar. 23	2004	527	34	1310
Reese, Jacob, Pittsburg, Pa. Apparatus for reducing metal rods or wire	338,362	Mar. 23	2005	528	34	1310
Reese, Jacob, Pittsburg, Pa. Apparatus for drawing wire, strips, or rods	338,363	Mar. 23	2007	528	34	1310
Reese, Jacob, Pittsburg, Pa. Utilizing old rails	346,498	Aug. 3	62	15	36	472
Reese, Jacob, Pittsburg, Pa. Dephosphorizing iron by means of oxides of iron	349,744	Sept. 28	1668	.....	36	1380
Reese, Jacob, Pittsburg, Pa. Rolling old rails to flat plates	350,557	Oct. 12	640	176	37	124
Reese, Jacob, Pittsburg, Pa. Rolling old rails to street-rails	350,558	Oct. 12	641	176	37	124
Reesor, Harry M., Macomb, Ill. Check-row corn-planter	352,202	Nov. 9	709	190	37	596
Reesor, Nicholas E., Markham, county of York, Ontario, Canada. Gate-opening device	337,618	Mar. 9	1002	257	34	1113
Reeve, William G. (See Rockafellow, Samuel, assignor.)						
Reeves, Alfred B., assignor to Reeves & Co., Columbus, Ind. Plow-gage	340,242	Apr. 20	1643	416	35	306
Reeves, Alfred B., assignor to Reeves & Co., Columbus, Ind. Cultivator	341,109	May 4	186	59	35	539
Reeves, Charles W., assignor to E. J. Frankenthal, Boston, Mass. Violin-case	348,055	Aug. 24	2241	599	36	903
Reeves & Co. (See Reeves, Alfred B., assignor.)						
Reeves, Henry C. (See Reeves, William F. and H. C.)						
Reeves, Monroe K. (See Dales and Markland, assignors.)						
Reeves, P. Kennedy, Bridgeton, N. J. Fruit-jar	342,384	May 25	1971	520	35	896
Reeves, P. Kennedy, Bridgeton, N. J. Cover for jars	348,588	Sept. 7	76	22	36	1061
Reeves, William F., Millsonvale, Kans. Combined subsoiler and planting attachment	354,231	Dec. 14	855	227	37	1170
Reeves, William F. and H. C., Miltonvale, Kans. Combined weed-cutter and harrow	346,173	July 27	1956	504	36	375
Reeves, William T., Aurora, Ill. Cuff-holder	349,454	Sept. 21	1260	327	36	1294
Regan, John P., New York, N. Y. Anti-insect fabric	339,810	Apr. 13	1033	.....	35	189
Regar, George H. (See Moock and Regar.)						
Regenerative Gas Light Company. (See Baker, John W., assignor.)						
Regester, Robert A., Baltimore, Md. Boiler-tube cleaner	334,468	Jan. 19	1390	375	34	272
Regester, Robert A., Baltimore, Md. Bath-boiler stand	348,690	Sept. 7	220	58	36	1087
Register, Henry C., Philadelphia, Pa. Artificial tooth	333,782	Jan. 5	392	107	34	74
Register, Henry C., Philadelphia, Pa. Dental plugger	347,828	Aug. 24	1922	510	36	845
Regnier, Theophile J., Springfield, Mass. Bicycle-saddle	334,469	Jan. 19	1391	375	34	272
Rehfuss, George. (See Moore and Rehfuss.)						
Rehfuss, John G., assignor to Joly Stopper Company, Philadelphia, Pa. Machine for forming wire bails of bottle-stoppers	351,527	Oct. 26	2067	536	37	397
Rehfuss, John G., assignor to Joly Stopper Company, Philadelphia, Pa. Machine for forming wire bails for bottle-stoppers	351,653	Oct. 26	2253	583 / 584	37	431
Rehfuss, Martin O., assignor to Joly Stopper Company, Philadelphia, Pa. Fruit-jar	353,503	Nov. 30	2497	666	37	958
Reiber, Henry B. (See Coats and Reiber.)						
Reichardt, Ferdinand A., Elizabeth, N. J. Suture appliance	345,541	July 13	1062	270 / 271	36	196
Reichardt, Ferdinand A., New York, N. Y. Atomizer	345,659	July 13	1241	321	36	229
Reichardt, Henry C., Pottsville, Pa. Tube-clamp for Artesian wells	342,462	May 25	2079	548	35	916
Reichardt, Hermann, and C. Heyer, Dessau, Anhalt, Germany. Manufacturing sugar	344,231	July 6	176	27	36	33
Reichenbach, Edward, Orrville, Ohio. Ditching-level	341,690	May 11	1010	267	35	703
Reichert, Frederick, *et al.* (See Rice, Hannibal, assignor.)						
Reichley, Jacob. (See Frey, Motter, and Reichley.)						
Reichling, Robert, Bernburg, Prussia, Germany. Electric safety attachment for steam-boilers	352,203	Nov. 9	711	190	37	596
Reid, Charles H., Danbury, Conn. Drum or roll for hat-sizing machines	344,680	June 29	2696	700	35	1528
Reid, Charles H., Danbury, Conn. Chuck. (Reissue)	10,766	Sept. 21	1551	401	36	1354
Reid, James, Portland, Oreg. Discharging cargoes	353,083	Nov. 23	1884	508 / 509	37	834
Reid, James W., Evansville, Ind. Plug for stationary wash-basins, &c	342,538	May 25	2194	581	35	936
Reid, John, Almonte, Ontario, Canada. Band-tightener	337,081	Mar. 2	262	70	34	975
Reid, John, Dunedin, Otago, New Zealand. Wire-stretcher	339,319	Apr. 6	292	73	35	55
Reid, Paul J., Lancaster, and J. H. Dunbar, assignors to Clement & Dunbar, Philadelphia, Pa. Butter-printing machine	349,121	Sept. 14	806	205	36	1198
Reid, Samuel, and J. C. Thayer, Chicago, Ill.; said Reid assignor to said Thayer. Spirit-level	334,052	Jan. 12	772	211	34	151
Reid, William W., Cambridge, Mass. Sole for boots or shoes	354,232	Dec. 14	856	227	37	1170
Reiff, Gustavus N., Philadelphia, Pa. Railway switch and signal operating device	352,780	Nov. 16	1456	392	37	746
Reiff, Gustavus N., assignor to E. H. Johnston, Philadelphia, Pa. Railway signal apparatus	352,779	Nov. 16	1454	392	37	746
Reilly, Edward G., assignor of one-half to G. W. Bassett, Columbus, Ohio. Car-brake	349,608	Sept. 21	1465	378	36	1336
Reilly, John J., San Francisco, Cal. Steam-actuated valve	340,819	Apr. 27	2455	646	35	459
Reilly, Robert M., and F. King, assignors of one-third to T. M. Dukehart, Baltimore, Md. Faucet	336,159	Feb. 16	1536	405	34	727
Reilly, William J. (See Biggs, Henry, assignor.)						
Reimers, Fredrick, Ottumwa, Iowa. Manufacture of artificial stone	348,415	Aug. 31	2756	.....	36	1007
Rein, Adam, Hamilton, Ohio. Cigar-press	340,359	Apr. 20	1820	467	35	339
Rein, Bernard, Urbana, assignor to J. Foos, Springfield, Ohio. Vaporizer for gasoline and oil stoves	335,719	Feb. 9	890	235	34	606
Rein, Bernard, Urbana, assignor to J. Foos, Springfield, Ohio. Vaporizer and burner for gasoline and oil stoves	336,745	Feb. 23	2366	619	34	882
Rein, Gustavus. (See Rose and Rein.)						
Reindl, Wolfgang, and A. Lotstrom, Menominee, Mich. Boot or shoe	346,126	July 27	1886	488	36	362
Reiner, Isaiah H., Lhe Lexington, Pa. Wheel for vehicles	354,584	Dec. 21	1360	361	37	1268
Reinfeld, Joseph A., Rochester, N. Y. Ticket-case	355,207	Dec. 28	2256	595	37	1450
Reinhardt, Charles, and H. Lebherz, Brooklyn, N. Y. Hair-clipper	339,811	Apr. 13	1034	256	35	189
Reinhardt, Gustav E., Leipsic, Germany. Tool-holder oscillating device for planing-machines	339,212	Apr. 6	138	37	35	27
Reinhardt, James H., Memphis, Tenn., assignor of one-half to C. X. Cordier, New York, and W. M. Caldwell, Brooklyn, N. Y. Railway-signal	346,946	Aug. 10	641	172	36	592
Reinhardt, James H., assignor of one-half to J. Wetter, Memphis, Tenn. Consecutive-numbering machine	350,640	Oct. 12	769	210 / 211	37	147
Reinhardt, James H., Memphis, Tenn., assignor to Reinhardt Numbering Machine Company. Consecutive-numbering machine	353,711	Dec. 7	86	23	37	1022

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Reinhardt Numbering Machine Company. (See Reinhardt, James H., assignor.)						
Reinheimer, David F., New Paris, Ohio. Wire-twisting wrench	348,293	Aug. 31	2590	697	36	975
Reinheimer, David F., New Paris, Ohio. Fence-wire tension device	348,294	Aug. 31	2591	697	36	975
Reinhold, Frank J. (See Hubel and Reinhold.)						
Reinhold, Frank J., Detroit, Mich. Knife-sharpener	343,852	June 15	1561	395	35	1304
Reinhold, Hermann. (See Maass, Franz, assignor.)						
Reinmann, Albert L., Pittsburg, Pa. Pump for the production of high vacuums	338,552	Mar. 23	2256	593	34	1354
Reinmann, Albert L., Pittsburg, Pa. Cement for securing metal rings to electric-lamp bulbs and for other purposes	345,542	July 13	1064	.....	36	197
Reinmann, Albert L., Pittsburg, Pa. Apparatus for carbonizing fiber	345,860	July 20	1525	394	36	285
Reinmann, Albert L., Pittsburg, Pa. Incandescent electric lamp	353,158	Nov. 23	2002	536	37	858
Reinmann, Albert L. and C. F., Pittsburg, Pa. Apparatus for the production of high vacuums	338,551	Mar. 23	2255	593	34	1354
Reinmann, Albert L. and C. F., Pittsburg, Pa. Valve for mercurial pumps	345,543	July 13	1064	271	36	197
Reinmann, Albert L., Pittsburg, Pa., and C. G. Ott, Newark, N. J., assignors to G. Westinghouse, Pittsburg, Pa. Apparatus for the production of high vacuums	339,930	Apr. 13	1194	298	35	219
Reinmann, Charles F. (See Reinmann, Albert L. and C. F.)						
Reinnan, Ole, Chicago, Ill. Machine for manufacturing wire mattresses	347,829	Aug. 24	1924	510, 511	36	845
Reisor, Andrew S., Reisor, La. Lamp-chimney cleaner	336,746	Feb. 23	2367	619	34	882
Reisor, Andrew S., Reisor, La. Post-driver	347,128	Aug. 10	899	240	36	638
Reist, Elias, Williamsville, N. Y. Cleaning wheat	340,155	Apr. 20	1509	.....	35	282
Reitenour, George U., *et al.* (See Smith, George W., assignor.)						
Reitenour, H., *et al.* (See Smith, George W., assignor.)						
Reitenour, Henry, *et al.* (See Vankirk, Arthur C., assignor.)						
Reiter, Andrew. (See Arndt, Henry A., assignor.)						
Remers, John, Buffalo, N. Y. Machine for cleaning ice, &c., from street-railways	349,122	Sept. 14	808	205	36	1198
Remick, Abraham L. (See Spath and Remick.)						
Remick, Harry E., Boston, Mass. T-square and bevel	345,806	July 20	1452	376	36	273
Remillon, Eugene J., Moberly, Mo. Interlocking system	350,993	Oct. 19	1291	338, 339	37	249
Remillon, Eugène J., Moberly, Mo. Three-throw switch	352,426	Nov. 9	995	268	37	652
Remillon, Eugene J., assignor of two-thirds to C. H. Talmage, Moberly, Mo., and H. J. Stocker, Texarkana, Ark. Apparatus for operating switches	344,201	June 22	2049	524	35	1400
Remington & Sons, E. (See Walker, Louis N., assignor.)						
Remington, William H., assignor to E. F. Hagar, Boston, and H. Sawyer, Chelsea, Mass. Secondary battery	342,385	May 25	1972	520	35	896
Remmers, Bernhard H., and J. Williamson, Glasgow, county of Lanark, Scotland. Filter-press	338,553	Mar. 23	2259	593	34	1355
Remsen, Thomas H., *et al.* (See Miles, Jackson B., assignor.)						
Remus, Carl T., assignor to J. Scherbel, Dresden, Saxony, Germany. Corner-fastener for paper boxes	343,340	June 8	843	213	35	1167
Remy, Frederick. (See Keever and Remy.)						
Rendall, William G., Portland, Oreg. Cutter-head	335,309	Feb. 2	313	82	34	497
Rendall, William G., Portland, Oreg. Tree-feller and pile-cutter	337,018	Mar. 2	187	50	34	959
Reneban, James J., New Britain, Conn. Street-support for electric lamps	347,830	Aug. 24	1925	511	36	845
Rennekamp, Anton L., Cincinnati, Ohio. Clothes-hanging device for wardrobes and closets	345,921	July 20	1608	415	36	302
Rennekamp, Franzis J., Bridgetown, Ohio. Clothes-hanging device	346,683	Aug. 3	291	80	36	518
Renniman, William J., Avoca, Pa. Vehicle-brake	339,931	Apr. 13	1197	298	35	220
Renniman, William J., Avoca, Pa. Dumping device for mining-cars	347,151	Aug. 10	936	249	36	645
Reno, George P., Louisville, Ky. Core-rod	353,159	Nov. 23	2003	536	37	858
Reno, Zachary T., New Orleans, La. Slide-valve	348,777	Sept. 7	324	87	36	1108
Reno, Zachary T., assignor of one-half to D. G. McCan, New Orleans, La. Slide-valve	342,633	May 25	2328	615	35	961
Renshaw, John W., and S. H. Perin, Jeffersonville, Ind. Machine for grinding sad-irons	338,801	Mar. 23	1918	504, 505	34	1295
Renshaw, Joseph B., *et al.* (See Babbitt, Seth W., assignor.)						
Renshaw, Morrison, and W. H. Horner, St. Louis, Mo. Fastening for coupling or joint pins	349,004	Sept. 14	645	167	36	1169
Renshaw, William, and N. W. Thillman, Chicago, Ill. Punching, shearing, and embossing machine	353,589	Nov. 30	2624	700, 701	37	982
Rensselaer Manufacturing Company. (See Rowe, Ellis L., assignor.)						
Renwick, Edward S., Millburn, N. J. Incubator	335,961	Feb. 9	1231	328	34	668
Renwick, Edward S., Millburn, N. J. Incubator	339,013	Mar. 30	2937	777	34	1481
Renwick, Edward S., Millburn, N. J. Incubator. (Reissue)	10,716	Apr. 27	2654	699, 700	35	495
Renwick, Edward S., Millburn, N. J. Brooder	353,968	Dec. 7	464	126	37	1091
Reppenhagen, Max E., Highland Falls, N. Y. Razor-strop	347,831	Aug. 24	1926	511	36	846
Reppeto, William H., Flora, Ind. Wire-fence machine	347,064	Aug. 10	815	217	36	623
Repplier, George R., *et al.* (See Adams, Joseph, assignor.)						
Requa, Elias B., Jersey City, N. J. Lamp	334,546	Jan. 19	1494	400	34	289
Requa, Elias B., Jersey City, N. J. Lamp	342,133	May 18	1599	427	35	822
Requa, Elias B., Jersey City, N. J. Lamp-burner	343,545	June 8	1133	286	35	1219
Requa, Mark M., assignor to himself and B. A. Man, Lanesborough, Minn. Car-coupling	352,264	Nov. 9	789	211	37	611
Ress, Carl, Leipsic, Saxony, Germany. Note-indicator for pianos	346,222	July 27	2024	522	36	389
Retornat, Ernest, Paris, France, assignor to E. and J. Wright, C. S. Howe, G. T. Moxey, Philadelphia, Pa., and H. Filson, New York, N. Y. Umbrella or parasol	352,781	Nov. 16	1458	393	37	747
Rettberg, Ernest F., and C. C. Ellis, San Antonio, Tex. Wrench	335,481	Feb. 2	544	143	34	538
Rettig, George, Chicago, Ill. Type-casting machine	354,935	Dec. 28	1871	494	37	1375
Reuland, Mathias, Dortmund, Prussia, Germany. Drying apparatus	352,204	Nov. 9	711	190, 191	37	597
Reuss, George B., Hohen Solms, La. Plow	340,360	Apr. 20	1821	467	35	339
Reuter, Heinrich, Hanover, Hanover, Germany. Combined fluting and smoothing iron	336,435	Feb. 16	1939	508	34	799
Reuther, John, assignor of one-half to W. Reuther, Elma, N. Y. Furrower and coverer	351,938	Nov. 2	307	85, 86	37	514
Reuther, William. (See Reuther, John, assignor.)						
Reutlinger, Adolph, *et al.* (See Stützel and Weinedel, assignors.)						
Revercomb, Charles. (See Schmidt and Revercomb.)						
Reversible Collar Company. (See Butterworth, Robert, assignor.)						
Rew, Henry C., Chicago, Ill. Process of and apparatus for manufacturing gas	339,471	Apr. 6	515	125	35	96
Rew, Henry C., Chicago, Ill. Process of and apparatus for manufacturing gas	339,472	Apr. 6	518	125, 126	35	96
Rew, Henry C., Chicago, Ill. Apparatus for manufacturing gas	341,506	May 11	740	200	35	650
Rew, Noel W., Garden City, Minn. Harrow attachment for plows	347,389	Aug. 17	1266	335	36	714
Rew, Richard A., Pomeroy, Wash. Ter. Heating attachment for cooking-stoves	355,208	Dec. 28	2258	595	37	1450

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Rew, Richard A., assignor of one-half to B. B. Day, J. W. Hull, and C. B. Foote, Pomeroy, Wash. Ter. Middlings-purifier	345,177	July 6	519	133	36	95
Rex, Benjamin P. (See Cross, Arthur E., assignor.)						
Rex, Charles A. (See Fowler, Robert F., assignor.)						
Reyher, William H., assignor of one-half to C. E. Collmer, Boston, Mass. Vise	345,960	July 20	1706	439	36	319
Reyner, Francis, Lathrop, Cal. Plow	336,946	Mar. 2	86	23	34	942
Reynold, George, *et al.* (See Dugaw, James, assignor.)						
Reynolds, Andrew J., Chicago, Ill. Self-loading dumping-car	335,623	Feb. 9	753	201	34	582
Reynolds, Andrew J., Chicago, Ill. Street-sweeper	348,778	Sept. 7	325	87	36	1108
Reynolds Bros. (See Vincent, William E., assignor.)						
Reynolds, Charles S., and J. H. Weldon, Lawrence, Mass. Stand for holding and sealing bottles	334,983	Jan. 26	2068	552	34	403
Reynolds & Co. (See Motley, Francis F., assignor.)						
Reynolds, Daniel, and J. S. Murray, Allegheny, Pa. Car-axle-box brass	340,364	Apr. 20	1822	467	35	340
Reynolds, Dexter, Albany, N. Y. Reducing magnetic oxide-of-iron ores	335,624	Feb. 9	755	.....	34	583
Reynolds, Earl H., Prophetstown, Ill. Check-row corn-planter	334,470	Jan. 19	1391	375	34	272
Reynolds, Edmund D. and O. B., Brockton, Mass. Harrow	346,315	July 27	2159	555	36	413
Reynolds, Edward E., *et al.* (See Laskey, John H., assignor.)						
Reynolds, Edward F., Bruce, Dak. Ter. Fanning-mill	349,235	Sept. 14	961	245	36	1228
Reynolds, Edward F., Bruce, Dak. Ter. Railroad-tie	352,002	Nov. 2	399	108	37	533
Reynolds, Edwin, Milwaukee, Wis. Combined steam generator and radiator	345,991	July 20	1707	439	36	319
Reynolds, Ella M., New York, N. Y. Skeleton skirt-band	341,430	May 4	635	174	35	620
Reynolds, Florence M., Pinacate, assignor of one-half to J. Humble, Los Angeles, Cal. Adjustable skirt holder and rack	352,891	Nov. 16	1606	433	37	774
Reynolds, George H., *et al.* (See Zimmerman, Arnold W., assignor.)						
Reynolds, George H., New York, N. Y. Pneumatic cannon	353,430	Nov. 30	2386	637	37	937
Reynolds, George H., New York, N. Y., assignor of one-half to Crane Brothers Manufacturing Company, Chicago, Ill. Toothed gearing	342,134	May 18	1601	427	35	822
Reynolds, George H., New York, N. Y., assignor of one-half to Crane Brothers Manufacturing Company, Chicago, Ill. Operating elevators	348,056	Aug. 24	2243	599, 600	36	903
Reynolds, George H., New York, N. Y., assignor of one-half to Crane Brothers Manufacturing Company, Chicago, Ill. Worm-gearing	353,429	Nov. 30	2385	636, 637	37	936
Reynolds, Gilbert, Ridgefield, Conn. Coffin	334,808	Jan. 26	1848	492	34	364
Reynolds, Gilbert, Ridgebury, Conn. Coffin	350,155	Oct. 5	82	23	37	18
Reynolds, Herbert M. (See Cory, Edward S., assignor.)						
Reynolds, John H. (See Carr, Ellsworth, assignor.)						
Reynolds, Joseph F., *et al.* (See Laskey, John H., assignor.)						
Reynolds, Joseph G., Providence, R. I. Bed pan	336,436	Feb. 16	1940	508	34	800
Reynolds, Josiah, (See Williams, Reynolds, and Bell.)						
Reynolds, Loran W., *et al.* (See Harris, Richard G., assignor.)						
Reynolds, Nathan M., South Chicago, Ill. Railway-signal	335,243	Feb. 2	225	59	34	480
Reynolds, Oliver B. (See Reynolds, Edmund D. and O. B.)						
Reynolds, Perry E., assignor of two-thirds to G. W. Lawson and J. E. Kessler, King City, Mo. Carpet and weather strip combined	350,396	Oct. 5	388	111	37	78
Reynolds, Stephen H. (See Hood and Reynolds.)						
Reynolds, William, *et al.* (See Knight, Edgar, assignor.)						
Reynolds, William W., Rutland, Vt. Scale for weighing according to two standards	351,528	Oct. 26	2068	536	37	398
Reynolds, Willie H., Antioch, Ill. Bobbin-winder for sewing-machines	348,638	Sept. 7	145	41	36	1074
Rheubottom, Homer E., administrator. (See Rheubottom, James R.)						
Rheubottom, James R., deceased, (H. E. Rheubottom, administrator,) assignor of one-half to F. M. Mack, Weedsport, N. Y. Corset	339,320	Apr. 6	293	74	35	56
Rheutan, Abram A., assignor to W. H. Hill, Worcester, Mass. Presser for envelope-machines	335,244	Feb. 2	226	59	34	481
Rheutan, Abram A., assignor to W. H. Hill, Worcester, Mass. Envelope-counting machinery	335,245	Feb. 2	227	60	34	481
Rheutan, Abram A., assignor to W. H. Hill, Worcester, Mass. Envelope-counting machinery	349,745	Sept. 28	1669	430, 431	36	1380
Rheutan, Abram A., assignor to W. H. Hill, Worcester, Mass. Mechanical movement	349,901	Sept. 28	1875	484	36	1421
Rheutan, Abram A., assignor to W. H. Hill, Worcester, Mass. Envelope-counting machinery	350,504	Oct. 12	571	158	37	111
Rheutan, Abram A., assignor to W. H. Hill, Worcester, Mass. Machine for counting and packing envelopes	350,505	Oct. 12	572	158, 159	37	111
Rhind, Frank, Brooklyn, assignor to himself and C. S. Upton, New York, N. Y. Lamp	342,463	May 25	2080	549	35	916
Rhind, George Y. (See Adams, William H., assignor.)						
Rhodes, Byron J. (See Baker, Simeon, assignor.)						
Rhodes, George W., Manchester, county of Lancaster, England. Take-up motion for looms	345,544	July 13	1065	271, 272	36	197
Rhodes, Isaac M., Hancock, Mich. Apparatus for cutting circular wooden plates	352,003	Nov. 2	399	109	37	533
Rhodes, Joshua. (See Nuttall, Joshua, assignor.)						
Rhodes, Leverett E., Hartford, Conn. Screw-cutting lathe-tool	346,499	Aug. 3	63	16	36	472
Rhodes, Stephen E., assignor of one-half to E. G. Rowson, Saratoga Springs, N. Y. Mechanic's and builder's scaffold-bracket	339,321	Apr. 6	295	74	35	56
Rhodes, William J., Cleveland, Ohio. Car-coupling	346,684	Aug. 3	292	80	36	518
Rhyne, James T., assignor to himself, W. C. Red, Durant, Miss., and J. Peters, Fort Scott, Kans. Tanning process	351,204	Oct. 19	1575	.....	37	302
Ribbeck, Ferdinand, New Iberia, La. Drip-coffee pot	346,774	Aug. 3	398	110	36	538
Riber, John, Painted Creek, Ohio. Tobacco-cutter	350,559	Oct. 12	642	177	37	134
Ricards, William J., Bridgeville, Del. Grain-measuring device	350,503	Oct. 12	570	157	37	111
Rice, Alonzo W., and P. Landaker, Eureka Springs, Ark. Bustle	352,427	Nov. 9	995	268	37	652
Rice, Arthur, New Albany, Ind., assignor to Peerless Manufacturing Company, Louisville, Ky. Sand-molding machine	340,362	Apr. 20	1823	467	35	340
Rice, Arthur, New Albany, Ind., assignor to Peerless Manufacturing Company, Louisville, Ky. Sand-molding machine	353,712	Dec. 7	88	23, 24	37	1022
Rice, Calvin B., East Oakland, Cal. Camping-chest	336,347	Feb. 16	1819	477, 478	34	776
Rice, Charles B., Chicago, Ill. Steam and hot-water boiler	351,070	Oct. 19	1391	365, 366	37	267
Rice, D. Burt. (See Rice, Wallace E., assignor.)						
Rice, David H., Brookline, Mass. Clutch for tricycles	336,588	Feb. 23	2148	563	34	842
Rice, David H., Brookline, Mass. Bicycle	342,878	June 1	146	37	35	1032
Rice, David H., Brookline, Mass. Clutch for tricycles	348,691	Sept. 7	220	58	36	1087
Rice, David H., Brookline, Mass. Wheel for velocipedes	348,692	Sept. 7	223	59	36	1088
Rice, David H., Brookline, Mass. Vehicle-wheel	349,746	Sept. 28	1671	431	36	1380

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Rice, David H. and L. H., Brookline, Mass. Velocipede	348,057	Aug. 24	2245	600, 601	36	904
Rice, E. Wilbur. (See Thomson and Rice.)						
Rice, E. Wilbur, Jr., Lynn, Mass. Distributing appliance for electric lighting systems	354,233	Dec. 14	857	227, 228	37	1170
Rice, Edward H., Mendota, Ill. Jar-clamp	353,590	Nov. 30	2626	701	37	982
Rice, Edwin W., Jr. (See Thomson and Rice.)						
Rice, Hannibal, assignor of two-thirds to F. Reichert and F. Thoms, Aorora, Ill. Trunk-clamp	341,604	May 11	878	234	35	677
Rice, Israel L. G. (See Pierce and Rice.)						
Rice, Israel L. G. (See Pierce, Bowditch, and Rice.)						
Rice, Israel L. G., Brookline, Mass. Pail stave and hoop	342,135	May 18	1601	427, 428	35	822
Rice, Israel L. G., Brookline, Mass. Grooving-machine	353,376	Nov. 30	2302	615, 616	37	921
Rice, John W., Springfield, Mass. Railway-car brake	345,320	July 13	723	183	36	137
Rice, Joseph C. (See Langdon, Frank E., assignor.)						
Rice, Keness F., Eureka Springs, Ark. Bustle	335,625	Feb. 9	758	201	34	583
Rice, Keness F., Eureka Springs, Ark. Harness attachment	341,507	May 11	742	200	35	650
Rice, Lepine H. (See Rice, David H. and L. H.)						
Rice, Mary E., administratrix. (See Rice, Wallace E.)						
Rice, Mathew, Oakland, Cal. Commutation-ticket holder	336,493	Feb. 16	2014	528	34	812
Rice, Michael, Brookfield, Mo. Combination-rack for wagons	344,751	June 29	2791	722, 723	35	1544
Rice, Nathaniel B., Chicago, Ill. Vacuum-evaporator for saccharine and gelatinous liquids, milk, &c.	347,381	Aug. 17	1267	335, 336	36	714
Rice, Nathaniel B., Chicago, Ill. Vacuum evaporating apparatus	351,795	Nov. 2	91	25	37	475
Rice, Nathaniel B., Chicago, Ill. Evaporator	351,796	Nov. 2	93	26	37	475
Rice, R. Fredrick, assignor to C. L. Beach, Hartford, Conn. Trace-fastening	342,265	May 18	1767	469	35	853
Rice, Solomon G., Cincinnati, Ohio. Fruit-crate	354,736	Dec. 21	1591	421	37	1310
Rice, Wallace E., deceased; M. E. Rice, administratrix, and assignor to D. B. Rice, Chicago, Ill. Fruit-wrapping machine	336,823	Feb. 23	2469	648, 649	34	901
Rich, Abraham L., Allegheny, Pa. Street-car motor	348,416	Aug. 31	2757	740	36	1007
Rich, Arthur C., Somerville, Mass. Machine for treating feathers	351,654	Oct. 26	2254	584	37	431
Rich, Charles H., Chatham Run, Pa. Axle	342,136	May 18	1602	428	35	822
Rich, George. (See Rich, Farr, and Bailey.)						
Rich, John and G., Philadelphia, Pa., E. L. Farr, Wenonah, and S. T. Bailey, Camden, N. J.; said J. and G. Rich assignors to said Farr and Bailey. Oil-cloth-rubbing machine	348,417	Aug. 31	2759	740, 741	36	1008
Rich, Joseph T., Providence, R. I. Button	342,266	May 18	1768	469	35	853
Rich, Pembroke S. (See Bailey, Rich, and Garfield.)						
Rich, Pembroke S., Worcester, assignor to Ames Plow Company, Boston, Mass. Fodder-cutter	341,770	May 11	1105	293	35	721
Rich, Willard G., Rochester, N. Y., assignor to H. B. Smith Machine Company, Smithville, N. J. Velocipede	350,994	Oct. 19	1293	339, 340	37	249
Rich, Willard G., Rochester, N. Y., assignor to H. B. Smith Machine Company, Smithville, N. J. Velocipede	350,995	Oct. 19	1295	340	37	249
Rich, William W. (See Bennett, Dike, and Rich.)						
Richard, Edmond. (See Seyer and Richard.)						
Richard Fastener Company. (See Kempshall, Eleazer, assignor.)						
Richard, Jules, assignor to Société Richard Frères, Paris, France. Recording apparatus for barometers, &c.	334,613	Jan. 19	1584	422	34	307
Richards, Augustus, Sr., Willis, Tex. Leaf-turner	344,861	July 6	94	24	36	17
Richards, David L., St. John, New Brunswick, Canada. Car-coupling	352,661	Nov. 16	1304	351	37	716
Richards, David M., Denver, Colo., and I. Hale, Whitestone, N. Y. Railway-car	348,058	Aug. 24	2248	601, 602	36	904
Richards Fastener Company. (See Richards, Francis H., assignor.)						
Richards, Francis H., Springfield, Mass. Mechanical movement	338,302	Mar. 23	1918	505	34	1295
Richards, Francis H., Springfield, Mass. Saw	352,004	Nov. 2	401	109	37	533
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Stand and treadle mechanism for machinery	335,626	Feb. 9	759	202	34	583
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-fastener packing-case	336,589	Feb. 23	2151	563	34	842
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-fastener packing-case	337,520	Mar. 9	885	225	34	1091
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-fastener-setting instrument	338,554	Mar. 23	2260	594	34	1355
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-fastener-setting machine	341,053	May 4	107	32, 33	35	525
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-fastener-setting machine	341,054	May 4	111	33, 34	35	525
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-fastener packing-case	343,493	June 8	1069	267	35	1207
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-setting instrument	343,546	June 8	1134	286	35	1220
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Pliers	343,547	June 8	1135	287	35	1220
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-setting instrument	348,236	Aug. 31	2516	676	36	959
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-setting instrument	348,237	Aug. 31	2519	677	36	959
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Punch	353,817	Dec. 7	232	63	37	1049
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-setting instrument	353,818	Dec. 7	233	63	37	1049
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-setting instrument	353,819	Dec. 7	236	64	37	1050
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-setting instrument	353,820	Dec. 7	237	64	37	1050
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Packing-case for button-fasteners	354,234	Dec. 14	862	228	37	1171
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Packing-case for button-fasteners	354,235	Dec. 14	862	228	37	1171
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-fastener	354,585	Dec. 21	1361	361	37	1268

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Richards, Francis H., Springfield, Mass., assignor to Pratt & Whitney Company, Hartford, Conn. Reamer-relieving machine	336,066	Feb. 9	1374	364	34	693
Richards, Francis H., Springfield, Mass., assignor to Pratt & Whitney Company, Hartford, Conn. Reamer-relieving machine	336,067	Feb. 9	1376	364	34	694
Richards, Francis H., Springfield, Mass., assignor to Pratt & Whitney Company, Hartford, Conn. Reamer-relieving machine	336,068	Feb. 9	1377	365	34	694
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Mechanical movement	340,156	Apr. 20	1509	381, 382	35	282
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Machine for counting, packing, and banding envelopes	340,243	Apr. 20	1644	416, 417, 418	35	306
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Envelope-machine	340,244	Apr. 20	1649	418, 419	35	307
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Envelope-blank-feeding mechanism	340,245	Apr. 20	1654	419, 420	35	307
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Mechanism for creasing envelope-blanks	340,246	Apr. 20	1656	420, 421	35	308
Richards, Francis H., Springfield, Mass. assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Mechanical movement	340,247	Apr. 20	1658	421	35	308
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Mechanical movement	340,248	Apr. 20	1659	421, 422	35	308
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Picker for envelope-machines	340,249	Apr. 20	1660	422	35	309
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Envelope-machine	340,250	Apr. 20	1661	422, 423	35	309
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Mechanism for creasing envelope-blanks	343,854	June 15	1563	396	35	1305
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Envelope-machine	343,855	June 15	1564	396, 397	35	1305
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Envelope-machine	343,856	June 15	1566	397	35	1305
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Mechanical movement	343,857	June 15	1567	397	35	1305
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Blank-creasing mechanism	351,283	Oct. 19	1675	439, 440	37	319
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Mechanism for creasing envelope-blanks	351,284	Oct. 19	1677	440	37	319
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Mechanical movement	353,760	Dec. 7	149	41, 42	37	1034
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Endless apron for envelope-machines	353,816	Dec. 7	232	63	37	1049
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Turret-lock	353,821	Dec. 7	239	65	37	1050
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Lathe-head	354,737	Dec. 21	1592	421, 422	37	1310
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Envelope counting, packing, and banding machine	354,738	Dec. 21	1595	422, 423, 424	37	1311
Richards, Francis H., Springfield, Mass., assignor to Richards Fastener Company, New Britain, Conn. Making paper-fasteners	341,431	May 4	635	174	35	620
Richards, Francis H., Springfield, Mass., assignor to Richards Fastener Company, New Britain, Conn. Making paper-fasteners	341,432	May 4	636	174	35	620
Richards, Francis H., Springfield, Mass., assignor to Richards Fastener Company, New Britain, Conn. Material for paper-fasteners	341,433	May 4	637	174	35	620
Richards, Francis H., Springfield, Mass., assignor to Richards Fastener Company, New Britain, Conn. Paper-fastener	342,634	May 25	2329	615	35	961
Richards, George E., assignor to Snell Manufacturing Company, Fiskdale, Mass. Box for tools	350,016	Sept. 28	2034	525	36	1450
Richards, Henry J., Wilkes-Barré, Pa. Miner's lamp	335,041	Jan. 26	2155	573	34	419
Richards, Henry J., Wilkes-Barré, Pa. Mining-machine	342,635	May 25	2330	615, 616	35	961
Richards, Hubert P., Newton, Mass. Tracing-cabinet	354,347	Dec. 14	1031	275	37	1202
Richards, James A., Grand Rapids, Mich. Horseshoe anvil and clamp	354,236	Dec. 14	863	228	37	1171
Richards, John, San Francisco, Cal. Shaft-coupling	334,547	Jan. 19	1497	401	34	290
Richards, John, San Francisco, Cal. Steam-engine governor	336,747	Feb. 23	2367	619, 620	34	882
Richards, John, San Francisco, Cal. Steam-engine valve	341,691	May 11	1012	267	35	703
Richards, John, San Francisco, Cal. Compound steam-engine	350,446	Oct. 5	472	133, 134	37	91
Richards, Lovell A., Grayson, Cal. Disk-harrow	348,693	Sept. 7	224	59	36	1088
Richards, Marcius C., assignor to himself and Wilcox Manufacturing Company, Aurora, Ill. Door-hanger	344,288	June 22	2171	556	35	1422
Richards, Ransom. (See Wotherell and Jones, assignors.)						
Richards, Theron A., Brooklyn, N. Y. Engraver's ruling-machine	342,464	May 25	2081	549, 550	35	916
Richards, Valentine W. A., assignor of one-half to J. Baltes, Minneapolis, Minn. Shaft-carrier	345,922	July 20	1609	415	36	302
Richards, Walter W., Philadelphia, Pa. Window-sash	351,797	Nov. 2	95	26	37	475
Richards, William H., McKeesport, Pa. Pipe-joint	337,867	Mar. 16	1322	343	34	1176
Richards, William J., Coaldale, Pa. Padlock	348,864	Sept. 7	436	116	36	1128
Richardson, Charles H., assignor of one-half to J. V. Emmett, Sterling, Ill. Corn-planter	347,889	Aug. 24	2008	532	36	859
Richardson, Charles H., and H. A. Barkelew, Jr., Los Angeles, Cal. Cuff-holder	349,902	Sept. 28	1277	485	36	1422
Richardson, Charles J., Team Valley Paper Mills, Gateshead-on-Tyne, England. Apparatus for the manufacture of paper	338,364	Mar. 23	2009	528	34	1310
Richardson, Chester F., Milwaukee, Wis. Valve-movement in pumping-engines	345,731	July 20	1340	348	36	254
Richardson, Christopher, Newark, N. J. Handsaw	343,254	June 8	702	174	35	1143
Richardson, Edwin A., Cumberland Mills, Me. Bicycle-pedal	341,946	May 18	1339	358	35	773
Richardson, Frederick, Providence, R. I. Clasp-fastening for overshoes	338,555	Mar. 23	2362	594	34	1355
Richardson, Frederick E., Uniontown, Iowa. Washing-machine	338,442	Mar. 23	2120	554	34	1330
Richardson, George, assignor to F. A. Cary, Milwaukee, Wis. Machine for gluing and putting boxes together	350,943	Oct. 19	1181	314, 315	37	229
Richardson, George W., Plano, Ill. Device for converting motion	338,780	Mar. 30	2602	685	34	1420
Richardson, George W., Medford, Mass. Muffler attachment for safety-valves	342,267	May 18	1769	469	35	853
Richardson, George W., assignor to J. H. Shepard and J. Dalese, Chicago, Ill. Stone-conveyer	334,471	Jan. 19	1393	376	34	272

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Richardson, George W., Medford, Mass., assignor to Consolidated Safety Valve Company, Hartford, Conn. Safety-valve	344,862	July 6	95	24	36	18
Richardson, George W., Medford, Mass., assignor to Consolidated Safety Valve Company, Hartford, Conn. Steam-muffler	344,863	July 6	98	25	36	18
Richardson, George W., Boston, Mass., assignor to Consolidated Safety Valve Company, Hartford, Conn. Safety-valve	344,864	July 6	99	25	36	18
Richardson, George W., Boston, Mass., assignor to Consolidated Safety Valve Company, Hartford, Conn. Safety-valve	344,865	July 6	100	25	36	18
Richardson, George W., Medford, Mass., assignor to Consolidated Safety Valve Company, Hartford, Conn. Safety-valve	344,866	July 6	102	26	36	19
Richardson, Herbert L., Woburn, Mass. Ironing machine	339,213	Apr. 6	139	37	35	27
Richardson, Isaac C., Nashua, N. H. Combined heating and cooking apparatus	333,672	Jan. 5	231	63	34	45
Richardson, Jeremiah J., Brooklyn, N. Y. Roasting and baking oven for stoves and ranges	339,473	Apr. 6	521	126	35	97
Richardson, John D., Brooklyn, assignor to himself, F. L. Manchester, and J. W. Sullings, New York, N. Y. Tripod-standard	335,774	Feb. 9	976	258	34	622
Richardson, John D., assignor to himself and F. L. Manchester, Brooklyn, N. Y. Dress-form	343,729	June 15	1412	352	35	1275
Richardson, John H. (See Thorpe and Richardson.)						
Richardson, John S., Lowell, assignor to G. Draper & Sons, Hopedale, Mass. Spinning-machine	353,377	Nov. 30	2305	616	37	922
Richardson, Lewis G., Toledo, Ohio. Traction-increaser for locomotives	352,005	Nov. 2	402	109	37	533
Richardson, M. F. (See Wisner, A. Jackson and A., assignors.)						
Richardson, Marcus F. (See Wisner, Andrew J., assignor.)						
Richardson, Millard F., Liberty, Ind. Roller-skate	336,437	Feb. 16	1941	509	34	800
Richardson, Robert, Detroit, Mich. Musical top	335,843	Feb. 9	1067	282	34	639
Richardson, Robert, Detroit, Mich. Bridle	339,474	Apr. 6	523	127	35	97
Richardson, Robert, Detroit, Mich. Musical top	346,199	Aug. 10	1000	267	36	657
Richardson, Solon O., Jr. (See Locke and Richardson.)						
Richardson, Thomas D., New York, N. Y. Scholar's companion	343,201	June 8	617	154	35	1128
Richardson, William, assignor to Milwaukee Dust Collector Manufacturing Company, Milwaukee, Wis. Dust-collector	343,400	June 8	939	235	35	1185
Richardson, William, assignor to Milwaukee Dust Collector Manufacturing Company, Milwaukee, Wis. Attachment for dust-collectors	343,548	June 8	1136	287	35	1220
Richardson, William, and T. C. Baiter, Cincinnati, Ohio. Thread-waxing attachment for sewing-machines	354,237	Dec. 14	864	229	37	1171
Richardson, William H., assignor of one-half to J. M. McClintock, Baltimore, Md. Cotton-chopper	343,140	June 1	529	134	35	1102
Richarz, John P., and S. Scott, St. Louis, Mo. Printing-machine	339,014	Mar. 30	2940	778	34	1481
Richey, Francis M. (See Hanley and Richey.)						
Richey, Harlan G. (See Fox and Richey.)						
Richie, John, Jr. (See Campbell, George, assignor.)						
Richmond, Cassius M., New York, N. Y. Artificial tooth-crown	351,071	Oct. 19	1393	366	37	267
Richmond, Cassius M., New York, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Artificial tooth-crown	346,316	July 27	2161	555	36	414
Richmond, Denison, Syracuse, N. Y. Caster	344,988	July 6	272	70	36	49
Richmond, Edmond C. (See Warren and Richmond.)						
Richmond Fire Alarm Company. (See McCullough, Lewis H., assignor.)						
Richmond, Henry T., assignor to C. I. Duncan, Malvern, Iowa. Harness	336,494	Feb. 16	2015	528	34	812
Richmond, Samuel H., Norwalk, Conn. Stove-lid holder	335,627	Feb. 9	760	202	34	583
Richter, Charles J., *et al.* (See Dixon, James, assignor.)						
Richter, F. (See Schmidt, Carl M., assignor.)						
Richter, George H., Toronto, Ontario, Canada. Device for simultaneously locking and unlocking a number of paper-files arranged within a cabinet	345,861	July 20	1526	395	36	285
Richter, Peter J., assignor to L. T. Wilcox and J. P. Light, Bay City, Mich. Wagon-gearing	338,876	Mar. 30	2732	719	34	1444
Richter, Peter J., assignor of one-half to L. M. Ross, Bay City, Mich. Wagon-gearing	345,321	July 13	726	183	36	137
Rickard, Ira, Cobleskill, assignor of one-half to W. H. Sidney, Schoharie, N. Y. Revolving signal for railway-trains	337,283	Mar. 2	541	142	34	1026
Ricker, John W., Chelsea, Mass. Washing-machine	349,747	Sept. 28	1072	431	36	1381
Ricker, Wentworth G., Rochester, N. Y. Hay-carrier	334,614	Jan. 19	1586	422, 423	34	307
Ricker, Wentworth G., Rochester, N. Y. Hay-sling	353 084	Nov. 23	1886	509	37	835
Rickey, Joseph K., Clarinda, Iowa. Surgeon's operating-table	348,418	Aug. 31	2761	741	36	1008
Ricks, James, Washington, D. C. Horseshoe	338,781	Mar. 30	2603	686	34	1420
Riddell, William. (See Frelloehr, Julius, assignor.)						
Riddle, John J. (See Whitcomb and Riddle.)						
Riddle, John J., Madisonville, Ohio. Molder's facing	335,628	Feb. 9	761	.....	34	583
Rideout, Elbridge G. (See Valentine, Robert H. C., assignor.)						
Rider, Alexander K., Walden, N. Y. Hydrocarbon-vapor engine	335,629	Feb. 9	761	202	34	584
Rider, Alexander K., Walden, N. Y. Air-engine	345,450	July 13	910	228	36	169
Rider, George E., Kansas City, Mo. Steam-engine	352,150	Nov. 9	630	167	37	582
Rider, John T., South Oil City, Pa. Railway-switch	336,348	Feb. 16	1821	478	34	777
Rider, Leman P., Pittsburg, Pa. Bagasse-furnace	349,236	Sept. 14	962	245, 246	36	1228
Rider, Leman P., Pittsburg, Pa. Utilizing natural gas as a fuel	349,811	Sept. 28	1761	455	36	1307
Rider, Leman P., Pittsburg, Pa. Furnace for burning wet vegetable, animal, or mineral matter	352,662	Nov. 16	1306	352	37	717
Rider, Leman P., Pittsburg, Pa. Burning gas	352,663	Nov. 16	1308	352, 353	37	717
Rider, Thomas J., New York, N. Y. Hot-air engine	353,004	Nov. 23	1771	476	37	813
Ridgeway, George, Towanda, Pa. Blacking-box	336,748	Feb. 23	2369	620	34	882
Ridgway, Charles L., Boston, Mass. Automatic damper for stoves and furnaces	326,261	Feb. 16	1700	443	34	754
Ridgway, Joseph, Camden, N. J. Truck-basket	342,137	May 18	1603	428	35	822
Riedell, John H., and L. W. Litch, Lynn, Mass. Machine for making box-toes and stiffeners for boots or shoes	337,082	Mar. 2	263	70, 71	34	975
Riehlé, Frederick A., *et al.* (See Poiesz, William F., assignor.)						
Riehlé, Henry B., *et al.* (See Poiesz, William F., assignor.)						
Rieley, William L. (See McAneny and Rieley.)						
Ries, Adolph. (See Boon and Ries.)						
Ries, Augustus. (See Topping, Alfred S., assignor.)						
Ries, Elias E., assignor of one-fourth to A. H. Henderson, Baltimore, Md. Automatic alarm signaling and safety device for railways	334,194	Jan. 12	986	265, 266	34	190
Ries, Elias E., assignor of one-half to A. H. Henderson, Baltimore, Md. Conduit for electric and cable railways	338,556	Mar. 23	2263	594	34	1355

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ries, Elias E., Baltimore, Md., assignor to E. O. Punchard, Boston, Mass. Electrical railway	352,265	Nov. 9	789	211 212	37	611
Riessner, Christopher, Washington, D. C., assignor to C. Riessner & Co., New York, N. Y. Oil-stove	340,363	Apr. 20	1825	468	35	340
Riessner & Co., C. (See Riessner, Christopher, assignor.)						
Riethmayer, Jacob F., Lansdale, Pa. Signal	345,862	July 20	1527	395	36	286
Riggle, Michael M., Orleans, assignor of one-half to T. E. Lindley, Paoli, Ind. Snap-hook	345,923	July 20	1610	415	36	302
Riggs, Hector. (See Bierbach, Albert G., assignor.)						
Riggs, John V., Amsterdam, N. Y. Medicinal aerated water	348,344	Aug. 31	2653	.....	36	988
Rigney, William J., Brooklyn, N. Y., and J. Wolff, Hoboken, N. J., assignors to Holmes, Booth & Haydens, Waterbury, Conn. Composition for insulating electric wires	336,018	Feb. 9	1308	.....	34	681
Riker, Andrew L., New York, N. Y. Gas-engine	349,858	Sept. 28	1823	471	36	1411
Riker, Charles B. (See Houchin, Riker, and Houchin.)						
Riker, Daniel J., assignor to S. Crump, Montclair, N. J. Granulating molten metal	336,590	Feb. 23	2152	.....	34	842
Riker, Daniel J., assignor to S. Crump, Montclair, N. J. Matrix	336,824	Feb. 23	2471	649	34	902
Riker, William, Newark, N. J. Cuff-button	352,712	Nov. 16	1378	372	37	731
Riley, Bernard J., East Newark, N. J. Traveling-bag	336,529	Feb. 16	2064	542	34	821
Riley, E. F. (See Davis, John R., assignor.)						
Riley, Edwin, assignor of one-half to W. F. Daniell, Franklin, N. H., and W. A. Russell, Lawrence, Mass. Paper-pulp screen or dresser	342,041	May 18	1468	393	35	797
Riley, Frederic G., London, England. Machine for wiring corks in bottles	351,714	Oct. 26	2326	605 606	37	446
Riley, John J. (See Mantion, Macdonald, and Riley.)						
Riley, John M., Newark, N. J. Oil-can	350,447	Oct. 5	471	134	37	91
Riley, Joseph B., Pittsburg, Kans. Churn	348,639	Sept. 7	146	41	36	1094
Riley & Melhuish. (See Craik, Andrew, assignor.)						
Riley Railway Construction Company. (See Bartholomew, Francis A., assignor.)						
Riley, Walker, Lowell, Mass. Cap spinning and twisting machine	335,385	Feb. 2	418	108	34	716
Rimington, John M., 4 Picton Place, Newcastle-upon-Tyne, county of Northumberland, England. Writing or blotting pad	355,209	Dec. 28	2259	596	37	1450
Rindskopf, Abraham P., Brooklyn, N. Y. Insole	349,859	Sept. 28	1825	471	36	1411
Rine, John M. (See Rine, Samel A. and J. M.)						
Rine, Samel A. and J. M., West Carlisle, Ohio. Feed-trough	339,694	Apr. 13	886	218	35	162
Rinehart, Alfred E., Denver, Colo. Camera-shutter	338,782	Mar. 30	2603	686	34	1420
Ring, Charles P. (See Land, James P., assignor.)						
Ring, Guldbrand O., Horten, Norway. Button-hook	346,608	Aug. 3	201	55	36	499
Ring, James W., Boston, Mass. Door-check	350,560	Oct. 12	643	177	37	124
Ringen, John, St. Louis, Mo. Sad-iron heater	336,591	Feb. 23	2152	563	34	843
Ringen, John, St. Louis, Mo. Saucepan. (Reissue)	10,718	May 4	650	176	35	624
Ringen, John, St. Louis, Mo. Gasoline-stove	345,545	July 13	1067	272	36	197
Ringer, James, Arcadia, Ohio. Gate	339,695	Apr. 13	887	218	35	162
Ringo, Birt and J. A., Mexico, Mo. Washing-machine	350,561	Oct. 12	647	177	37	124
Ringo, Joseph A. (See Ringo, Birt and J. A.)						
Ringrose, Jesse W., Mechanicsburg, Pa. Treating leather thongs for the manufacture of fly-nets	343 202	June 8	618	154	35	1128
Rinman, Gustaf O., Cincinnati, Ohio. Ice-machine	335,386	Feb. 2	419	108	34	517
Riordan, Dennis W., Chicago, Ill. Overflow-pipe for refrigerator-tanks	350,944	Oct. 19	1188	315	37	231
Riordan, Dennis W., and E. J. Martyn, Chicago, Ill. Railway-car	353,884	Dec. 7	337	90	37	1068
Ripley, Daniel C., Pittsburg, Pa. Shaping glassware	336,666	Feb. 23	2268	591 592	34	863
Ripley, Robert A., New York, N. Y. Electric-current converter	347,642	Aug. 17	1655	439	36	787
Rippey, William, Allegheny City, Pa. Furnace for the combustion of natural gas	337,868	Mar. 16	1322	344	34	1176
Rippin, Charles, St. Louis, Mo. Grain and middlings separator	343,649	June 15	1281	322	35	1253
Ripson, John D., Toronto, Ontario, Canada. Car-coupling	336,530	Feb. 16	2065	542 543	34	821
Ripson, John D., Toronto, Ontario, Canada. Car-coupling	341,857	May 11	1217	326	35	743
Risdon, William B., Trenton, N. J., assignor to American Saw Company, New York, N. Y. Saw-tooth	337,083	Mar. 2	266	71	34	976
Risler, George, Sennheim, Alsace, Germany. Cotton-picker	347,382	Aug. 17	1268	336 337	36	714
Risley, Edwin, Rocky Hill, Conn. Horse hay-rake	341,947	May 18	1340	358 359	35	773
Risser, Christian, Wabash, Ind. Cattle-stanchion	342,306	May 18	1841	487	35	864
Ritch, John P., assignor of one-half to J. F. Johnston, Charlotte, N. C. Cultivator	346,223	July 27	3025	522	36	389
Ritch, Milton M., and P. McKee, Laurinburg, N. C. Cotton and corn sweep	336,160	Feb. 16	1537	405	34	727
Ritchel, Charles F., assignor to Ives, Blakeslee & Co., Bridgeport, Conn. Toy	335,538	Feb. 2	622	163	34	551
Ritchel, Charles F., Bridgeport, Conn., assignor to Ritchel Waved Flooring and Wainscoting Company, of New York. Planing and matching machine	344,867	July 6	104	26	36	19
Ritchel, Charles F., Bridgeport, Conn., assignor of one-half to D. Kelsey, New York, N. Y. Corset	346,416	July 27	2301	593	36	440
Ritchel, Charles F., Bridgeport, Conn., assignor to Johnston, Tallman & Co., New York, N. Y. Toy motor	352,068	Nov. 2	489	132	37	551
Ritchel Waved Flooring and Wainscoting Company. (See Ritchel, Charles F., assignor.)						
Ritchey, Adelbert L. (See Wolfe, Jacob W., assignor.)						
Ritchie, Alexander H., Brooklyn, N. Y. Machine for the reduction of wood to paper-pulp	351,285	Oct. 19	1678	441	37	319
Ritchie, Benjamin F., assignor of one-half to J. Staley, Pittsburg, Pa. Pipe-coupling	338,783	Mar. 30	2605	686	34	1421
Ritchie, David A., Cambridgeport, Mass. Sheet-metal pipe	338,877	Mar. 30	2734	719	34	1444
Ritchie, David A., Cambridge, Mass. Sheet-metal expansible elbow	342,465	May 25	2086	550	35	917
Ritchie, David A., Cambridgeport, Mass. Machine for making metal tubing	349,748	Sept. 28	1673	432	36	1381
Ritchie, Matthew L., assignor to Eagle Tube Company, New York, N. Y. Closing the ends of wrought-iron pipes	339,812	Apr 13	1035	257	35	189
Ritchie, R. O. (See Thompson and Ritchie.)						
Riter, John L., Brownsville, Ind. Barbed fence	352,428	Nov. 9	997	269	37	652
Rites, Francis M., Pittsburg, Pa. Steam-engine governor	342,307	May 18	1842	487	35	865
Rites, Francis M., Pittsburg, Pa. Reverse-gear for engines	343,494	June 8	1070	267	35	1208
Rittase, E. Nelson, Baltimore, Md. Oven-peel	336,349	Feb. 16	1822	478	34	777
Rittenhouse, Charles C., Hastings, Nebr. Jail or prison	345,924	July 20	1612	415 416	36	302
Ritter, Charles H., Chicago, Ill. Dioramic or panoramic structure	337,869	Mar. 16	1324	344	34	1176
Ritter, Eugen, and C. Kellner, Goerz, Austria-Hungary, assignors to W. A. Russell, trustee, Lawrence, Mass. Apparatus for the manufacture of sulphurous acid, &c	338,557	Mar. 23	2264	595	34	1356
Ritter, Eugen, and C. Kellner, Goerz, Austria-Hungary, assignors to W. A. Russell, trustee, Lawrence, Mass. Manufacturing sulphites	338,558	Mar. 23	2267	595	34	1356
Ritter, Gustav, New York, N. Y. Fishing-tackle	342,844	June 1	97	24	35	1024

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Ritter, Isaac R., Reading, Pa. Nut-lock	348,345	Aug. 31	2654	715	36	988
Ritter, John A., Jr., and W. Van Ritter, West Baden, Ind. Harvester-sickle	340,364	Apr. 20	1826	468	35	340
Ritterskamp, Otto G., *et al.* (See Harris, Noah, assignor.)						
Ritton, Peter L., *et al.* (See Strait, Andrew V., assignor.)						
Ritty, Sebastian, Dayton, Ohio. Horse-rake	346,947	Aug. 10	643	172	36	592
Ritzman, Jackson, Madison, assignor of one-half to T. H. Coble, Franklin County, Iowa. Brace for thrashing-machines and separators	338,784	Mar. 30	2605	686	34	1421
Rivard, Peter E., *et al.* (See Hand, Ekins, assignor.)						
Rivers, Thomas L., Montclair, N. J. Loop or band for straps	350,081	Sept. 28	2125	550	36	1468
Rivers, Thomas L., Montclair, assignor of one-half to E. W. Goble, Newark, N. J. Car-coupling	339,475	Apr. 6	524	127	35	97
Rivers, William H., and E. Wright, Adams, Mass. Spinning-machine	355,210	Dec. 28	2260	596	37	1450
Rivett, Christmas, and R. L. Macfarlane, Almonte, Ontario, Canada. Car-coupling	341,568	May 11	743	200	35	651
Roach, Chester, Minneapolis, Minn. Punching-machine	351,340	Oct. 19	1752	461	37	333
Roach, James. (See Adams, Roach, and Sherwood.)						
Roach, Patrick C., Chicago, Ill. Rudder attachment	339,696	Apr. 13	888	218	35	163
Roan, Jackson W. (See Rogers and Roan.)						
Roan, James E., *et al.* (See Rogers and Roan, assignors.)						
Robb, George H., Severance, Kans. Sulky-harrow	345,603	July 13	1145	293	36	212
Robb, James A., San José, Cal. Saw-guide	341,055	May 4	114	34	35	525
Robb, James T., New York, N. Y. Extension-electrolier	337,199	Mar. 2	422	110	34	1004
Robb, James T., assignor of one-third to J. A. Bunnell, New York, N. Y. Ball-joint	344,202	June 22	2050	525	35	1400
Robb, William D., Belleville, Ontario, Canada. Device for washing out locomotive-boilers	343,921	June 15	1645	421	35	1322
Robbins, Alfred L., Chicago, Ill. Frictional electrical machine	336,947	Mar. 2	87	23	34	942
Robbins, Arthur C., Buffalo, assignor of one-half to E. C. Cole, Albion, and J. D. Larkin, Buffalo, N. Y. Printing-telegraph	335,482	Feb. 2	546	143 / 144	34	538
Robbins, Charles D. (See Crocker, Frederick, assignor.)						
Robbins, Edward P., assignor to E. L. McClain, Cincinnati, Ohio. Horse-collar-pad-attaching device	342,931	June 1	221	57	35	1045
Robbins, Elisha, assignor to H. C. W. Robbins, Worcester, Mass. Tackle-block	350,771	Oct. 12	943	253 / 254	37	179
Robbins, Elisha F., Boston, Mass. Hawse-pipe stopper	346,685	Aug. 3	293	80	36	518
Robbins, Frederick A., assignor to W. W. Montague, San Francisco, Cal. Can top and cover	353,160	Nov. 23	2004	537	37	858
Robbins, Henry C. W. (See Robbins, Elisha, assignor.)						
Robbins, Henry R., Jr. (See Solter and Robbins.)						
Robbins, James J., Philadelphia, Pa. Screen for the eyes	351,466	Oct. 26	1975	514	37	379
Robbins, John M., Norwood, Mass. Clothes-line reel	341,349	May 4	528	146	35	600
Robbins, Joseph T., Newton, Iowa. Apparatus for the disposal of night-soil	347,383	Aug. 17	1270	337	36	715
Robbins, Lewis H., McCool, Ind. Hay-loader	336,948	Mar. 2	88	24	34	942
Robbins, William. (See Heim, Frederick, assignor.)						
Robburts, George W., assignor of one-half to J. E. Polk, Elmo, Tex. Track-raiser	336,161	Feb. 16	1538	405 / 406	34	727
Robburts, George W., assignor of one-half to J. E. Polk, Elmo, Tex. Baling-press	338,785	Mar. 30	2606	687	34	1421
Roberts, A. E., *et al.* (See Baker and Huyck, assignors.)						
Roberts, Abner L., *et al.* (See Woodward, William D., assignor.)						
Roberts, Albert E., Norwalk, Ohio. Horse hay-rake	352,205	Nov. 9	713	191	37	597
Roberts, Benjamin F., Dunlap, Iowa. Cultivator-blade	340,621	Apr. 27	2183	575	35	411
Roberts, Benjamin J., New York, N. Y. Automatic stop for engines	344,397	June 8	935	234	35	1184
Roberts, Benjamin P., Boston, Mass. Registering ticket-stamp	336,162	Feb. 16	1539	406	34	727
Roberts, Benjamin P., Boston, Mass. Hand implement for corking bottles	337,437	Mar. 9	777	198	34	1073
Roberts, Charles E., Chicago, Ill. Knife for leather-splitting machines	344,404	June 29	2327	600	35	1459
Roberts, Charles G., Collards, Haslemere, county of Surrey, England. Rain-water separator	354,238	Dec. 14	865	229	37	1171
Roberts, Cyrus, Three Rivers, Mich. Winnower for thrashing-machines	339,582	Apr. 6	718	176	35	125
Roberts, Cyrus, Three Rivers, Mich. Corn sheller and separator	353,591	Nov. 30	2626	701	37	982
Roberts, Cyrus, Three Rivers, Mich. Corn-sheller	353,885	Dec. 7	339	91	37	1069
Roberts, Cyrus, Three Rivers, Mich. Corn-sheller	354,239	Dec. 14	868	229 / 230	37	1172
Roberts, Cyrus, Three Rivers, Mich. Corn-sheller	355,211	Dec. 28	2261	596	37	1451
Roberts, Cyrus, Three Rivers, Mich. Elevator for corn-shellers	355,212	Dec. 28	2262	596	37	1451
Roberts, Daniel O., *et al.* (See Hoedemaker and O'Harra, assignors.)						
Roberts, E. C. (See Campbell, George W., assignor.)						
Roberts, Erastus T., *et al.* (See McKay, John, assignor.)						
Roberts, Frank W., assignor of one-half to S. Benda, Syracuse, N. Y. Barrel-truck	337,870	Mar. 16	1325	344	34	1177
Roberts, George A., Three Rivers, Mich. Thrashing-machine tooth	335,387	Feb. 2	422	108	34	517
Roberts, George C., New Haven, Conn. Cold-storage chamber or refrigerator	336,949	Mar. 2	90	24	34	942
Roberts, George L., assignor to American Bell Telephone Company, Boston, Mass. Telephone-transmitter	350,772	Oct. 12	944	254	37	179
Roberts, Gracie S., Rockville Centre, N. Y. Sewer-pipe	342,225	May 18	1708	455	35	842
Roberts, Gracie S., Rockville Centre, N. Y. Sewer-pipe	342,226	May 18	1711	455	35	843
Roberts, Harrison, assignor of one-third to J. A. Harris, Brandenburg, Ky. Corn-harvester	340,365	Apr. 20	1827	468	35	340
Roberts, Henry P., Jamestown, N. Y. Steam-cooker	354,240	Dec. 14	869	230	37	1172
Roberts, Henry W., Cheboygan, Mich. Log-road-making machine	340,680	Apr. 27	2263	596 / 597	35	424
Roberts, Henry W., Cheboygan, Mich. Saw-mill attachment	350,842	Oct. 12	1055	282	37	199
Roberts, Isaiah L. (See Tweedy, Brevoort, and Roberts.)						
Roberts, Jacob, Brooklyn, N. Y. Apparatus for distilling wood, &c.	333,653	Jan. 5	233	63	34	45
Roberts, James, New Haven, Conn. Chisel	346,948	Aug. 10	644	172	36	592
Roberts, James, New York, N. Y., assignor to Acme Liquid Fuel Company of New York. Process of and apparatus for manufacturing heating and illuminating gas	345,649	July 13	1220	315 / 316	36	226
Roberts, Jesse W., Philadelphia, Pa. Potato-digger	346,686	Aug. 3	291	81	36	518
Roberts, John H., Hempstead, Tex. Stock-collar	339,214	Apr. 6	140	37	35	27
Roberts, John R., Youngstown, Ohio. Dish-cover	346,386	July 27	2254	577	36	431
Roberts, John S., assignor to Stein Manufacturing Company, Rochester, N. Y. Ornamenting glass surfaces	334,472	Jan. 19	1394	376	34	273
Roberts, Marion M., assignor of one-half to J. E. Ramsey, Norris City, Ill. Gate	347,740	Aug. 17	1786	476	36	810
Roberts, Newell J., Battle Creek, Mich. Car-starter	348,238	Aug. 31	2521	677	36	960
Roberts, Oliver, Belleville, Ill. Horseshoe-nail machine	352,069	Nov. 2	491	132	37	551
Roberts, Robert E. L., Farmers Branch, Tex. Motor	347,890	Aug. 24	2009	532	36	859
Roberts, Robert T., Racine, Wis. Machine for blacking boots and shoes	336,592	Feb. 23	2153	563	34	843
Roberts, Robert T., Racine, Wis. Potato-digger	336,667	Feb. 23	2270	592 / 593	34	863
Roberts, Thomas P., Pittsburg, Pa. Transportation and distribution of gas	340,616	Apr. 27	2174	573	35	409

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Roberts, Walter B., *et al* (See McKay, John, assignor.)						
Robertson, Arthur R., Somerville, Mass. Magnetic tack-hammer	352,070	Nov. 2	492	133	37	551
Robertson, D. L., *et al.* (See McMillan, John L., assignor.)						
Robertson, Harry. (See Atwood, Leonard, assignor.)						
Robertson, Harry, assignor of one-half to G. W. Rayner, New York, N. Y. Apparatus for making carbonated beverages	351,126	Oct. 19	1468	384 / 385	37	281
Robertson, Henry B., and C. Dunker, Havensville, Kans. Scythe-fastening	347,515	Aug. 17	1456	387	36	749
Robertson, Hugh R., St. John, New Brunswick, Canada. Rafting logs, timbers, &c	338,104	Mar. 16	1660	431	34	1238
Robertson, James, Northampton, Mass. Take-up or thread-controlling mechanism for sewing-machines	346,775	Aug. 3	399	110	36	539
Robertson, James H., Brooklyn, N. Y. Autographic telegraphy	350,320	Oct. 5	291	84	37	59
Robertson, James H., Rutherford, N. J. Autographic telegraph	353,592	Nov. 30	2628	701	37	982
Robertson, James H., Rutherford, N. J. Autographic telegraph	353,593	Nov. 30	2629	702 / 703	37	983
Robertson, James H., Rutherford, N. J. Autographic telegraph	353,594	Nov. 30	2632	703	37	983
Robertson, James W., Detroit, Mich. Preparing cereals	349,812	Sept. 28	1762	.....	36	1398
Robertson, John, Brooklyn, N. Y. Hydraulic lead-press	346,563	Aug. 3	142	30	36	488
Robertson, John A. (See Stewart and Robertson.)						
Robertson, John H., New York, N. Y. Mechanism for operating cable-supporting sheaves	353,005	Nov. 23	1772	477	37	814
Robertson, John H., and J. Jonson; said Jonson assignor to L. Lyon, New York, N. Y. Traction-rope railway	339,322	Apr. 6	296	74, 75	35	56
Robertson, Lucius, Mount Cornell, Ohio. Window-sash	340,733	Apr. 27	2344	617	35	438
Robertson, Monroe. (See Pitney and Ash, assignors.)						
Robertson, William H., Toronto, Ontario, Canada. Adjustable head-rest	352,354	Nov. 9	906	243	37	633
Robertson, William J., St. Albans, Vt. Hand-jack	343,341	June 8	845	213	35	1167
Robie, Henry W., assignor of two-fifths to S. S. Armstrong, Portsmouth, Va. Screw-jack	349,663	Sept. 21	1528	394	36	1349
Robie, John E. (See Hart, William A., assignor.)						
Robin, Theodule, Hyde Park, assignor, by mesne assignments, to himself and J. A. Mailloux, Boston, Mass. Watch-case pendant and bow	340,366	Apr. 20	1828	478	35	340
Robinson, Albert, Grand Rapids, Mich. Dental plate	343,967	June 15	1711	437	35	1333
Robinson, Albert S., Albany, N. Y. Baling-press	348,805	Sept. 7	437	117	36	1128
Robinson, Arthur E., St. Paul, Minn. Soap-holder	355,539	Feb. 2	622	163	34	551
Robinson, Arthur W., St. Catharines, Ontario, Canada. Dredging apparatus	341,277	May 4	425	116	35	583
Robinson, Benjamin, East Gloucester, Mass. Obtaining gelatine from the heads of fishes	352,151	Nov. 9	632	.....	37	582
Robinson, Benjamin, Lowell, Mass., assignor of one-half to S. N. Bourne, Manchester, N. H. Dust-trunk for cotton-cleaning	351,715	Oct. 26	2329	606 / 607	37	446
Robinson, Bushrod, Washington, D. C. Water-proof garment	355,213	Dec. 28	2204	597	37	1451
Robinson, Clarence E. (See Wales, Walter H., assignor.)						
Robinson, David F. (See Jackson, Charles A., assignor.)						
Robinson, Edward B., Deering, Me. Combined portfolio and binder	337,704	Mar. 9	1107	285	34	1131
Robinson, Frank, Climax, Mich. Railway-crossing	351,403	Oct. 26	1884	491	37	361
Robinson, Franklin C., and W. H. Cothren, Brunswick, Me. Treating articles made of paper-stock or wood pulp, &c	347,200	Aug. 10	1001	.....	36	657
Robinson, Fred. C., New York, N. Y. Sash and door bolt	334,545	Jan. 19	1493	400	34	289
Robinson, Fred. C., New York, N. Y. Transom pivot	335,310	Feb. 2	316	83	34	498
Robinson, Fred. C., New York, N. Y. Game-board and sectional stand	335,775	Feb. 9	978	259	34	622
Robinson, George E., Moravia, N. Y. Horse hay-rake	348,866	Sept. 7	440	118	36	1129
Robinson, George H. (See Rossi, Auguste J., assignor.)						
Robinson, George W., Pensacola, Fla., assignor of one-third to E. P. Allis, Milwaukee, Wis. Saw-mill carriage	348,295	Aug. 31	2592	697	36	975
Robinson, Goldsborough, assignor to Louisville Spirit Cured Tobacco Company, Louisville, Ky. Treating tobacco	345,076	July 6	387	.....	36	71
Robinson, Henry A., Foxcroft, Me. Postal packet	333,810	Jan. 5	533	145	34	100
Robinson, Henry A., Foxcroft, Me. Tricycle	340,617	Apr. 27	2176	573	35	410
Robinson, Horace, Manchester, county of Lancaster, England. Gas-motor engine	346,587	Aug. 3	296	81	35	519
Robinson, Horace B., Waterbury, Conn. Button	355,029	Dec. 28	1998	526	37	1398
Robinson, James. (See Shipman, Samuel, assignor.)						
Robinson, James B., Chicago, Ill. Railway-car-door cleat or fastener	335,092	Jan. 26	2228	591	34	432
Robinson, John, Bryan, Ohio. Washing-machine	341,692	May 11	1013	267 / 268	35	704
Robinson, John E., Baltimore, Md. Water-tight bulk-head for underground railways, &c.	354,348	Dec. 14	1033	275	37	1202
Robinson, John T., Hyde Park, Mass. Paper-cutting machine	333,783	Jan. 5	393	107	34	74
Robinson, Joseph B. (See Deverell, Persse, assignor.)						
Robinson, Mary M., *et al.* (See Robinson, William W., assignor.)						
Robinson, Murray L., Adrian, Mich. Combined stock and hay rack	350,996	Oct. 19	1298	340	37	250
Robinson, O. E. (See Hopkins, Cabel B., assignor.)						
Robinson, Peter, Farmland, Ind. Gate	335,630	Feb. 9	764	203	34	584
Robinson-Rea Manufacturing Company. (See Bailey, Reade W., assignor.)						
Robinson, Robert, Howlish Hall, (near Bishop, Auckland,) county of Durham, England. Machine for washing coal, &c	344,545	June 29	2530	654	35	1494
Robinson, Robert, Brooklyn, N. Y. Bottle-cleaner	351,798	Nov. 2	95	26, 27	37	476
Robinson, Samuel F., Columbus, Ohio. Humming toy	337,871	Mar. 16	1326	344	34	1177
Robinson, Stillman W., Columbus, Ohio. Mechanism for winding wire, &c	334,809	Jan. 26	1849	493	34	365
Robinson, Stillman W., Columbus, Ohio. Machine for uniting soles to uppers of boots or shoes	346,127	July 27	1887	488	36	362
Robinson, Stillman W., Columbus, Ohio. Machine for uniting soles to uppers	346,128	July 27	1889	488	36	362
Robinson, Stillman W., Columbus, Ohio. Machine for uniting soles to uppers	346,129	July 27	1891	489	36	362
Robinson, Stillman W., Columbus, Ohio. Machine for uniting the soles and uppers of boots or shoes	346,130	July 27	1892	489	36	363
Robinson, William, Boston, Mass. Roller-skate	334,896	Jan. 26	1952	520	34	383
Robinson, William D., Kanona, N. Y. Potato-digger	342,927	May 18	1712	456	35	843
Robinson, William L., Philadelphia, Pa. Underground conduit for electric wires	346,698	Aug. 3	298	82	36	519
Robinson, William W., Ripon, Wis. Window-screen	346,949	Aug. 10	645	173	36	592
Robinson, William W., Odebolt, assignor to E. A. King and M. M. Robinson, Ida Grove, Iowa. Harrow	343,527	June 8	1104	278	35	1214
Robison, Charles H., Maywood, Ill. Churn	338,786	Mar. 30	2607	687	34	1421
Robison, Frank D., Cleveland, Ohio. Switch for street-railways	343,398	June 8	936	234	35	1185
Robison, John H., assignor to himself and A. L. Frazier, St. Joe, Pa. Gib and key	351,127	Oct. 19	1471	385	37	282
Robson, Captain J., Evergreen, Ala. Cultivator	351,716	Oct. 26	2331	607	37	447
Roby, George L., Waterloo, Ind. Garden-plow	354,739	Dec. 21	1599	424	37	1312
Roche, Thomas C., Brooklyn, assignor to E. & H. T. Anthony & Co., New York, N. Y. Composition for holding photographic paper on its support, &c	346,224	July 27	2026	.....	36	389

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Rochester Machine Tool Works. (See Bryant, Edwin R., assignor.)						
Rock, Andrew J., Washington, D. C. Coal-hod	335,776	Feb. 9	980	259	34	623
Rock, Eugene G., Washington, D. C. Street-sweeper	352,152	Nov. 9	633	167	37	583
Rockafellow, Samuel, Muscatine, Iowa, assignor of one-half to W. G. Reeve, Peru, Ill. Sulky-plow	342,845	June 1	98	25	35	1024
Rockafellow, Samuel, Muscatine, Iowa, assignor of one-half to W. G. Reeve, Peru, Ill. Car-starter	342,846	June 1	99	25	35	1024
Rocker, Christopher, assignor of one-half to B. Goercks and H. Goez, St. Louis, Mo. Ventilating-valve for barrels	346,385	July 27	2253	576	36	431
Rocker Spring Company. (See Bunker, William I., assignor.)						
Rocker Spring Company. (See Connolly, M. Daniel and T. A., assignors.)						
Rocker Spring Company. (See Stevens, Asher B., assignor.)						
Rockford Boot and Shoe Manufacturing Company. (See Tribou, Samuel C., assignor.)						
Rockford Watch Company. (See Troller, Albert, assignor.)						
Rockhill, Clayton. (See Chester, Stephen M., assignor.)						
Rockingham Machine Company. (See Fowler, Alfred R., assignor.)						
Rockstroh, Charles A., Baltimore, Md. Boiler-scraper	339,932	Apr. 13	1198	298	35	220
Rockwell, Augustus P. (See Davis, Franklin T., assignor.)						
Rockwell, Edward D., *et al.* (See Gilman, Everett P., assignor.)						
Rockwell, Edward D., Jacksonville, Fla. Sash-fastener	352,099	Nov. 2	537	143	37	559
Rockwell, G. W., *et al.* (See Magner, Thomas J., assignor.)						
Rockwell, George E., *et al.* (See Le Grande, William W., assignor.)						
Rockwell, Robert N., Peabody, Kans. Electric chain battery	345,178	July 6	520	133	36	95
Rockwell, Rollin D. (See Wilson, William H., assignor.)						
Roddey, Carlotta F., assignor to A. T. Gurlitz, New York, N. Y. Abacus for slates	339,933	Apr. 13	1198	298	35	220
Rodecap, George W., Middletown, Ind. Velocipede	354,656	Dec. 21	1478	392 393	37	1289
Rodecker, Thomas, Mendon, Ohio. Gate	334,287	Jan. 12	1136	305	34	219
Rodehaver, Oscar F., Zanesville, assignor to E. Ellis, Ellis, and T. W. Lewis, Zanesville, Ohio. Steam-engine	339,074	Mar. 30	3017	797 798	34	1493
Roden, James A., and N. C. Morgan, Deerbrook, Miss. Seed-planter	334,897	Jan. 26	1954	520	34	383
Rodenberger, Levi C., Medford, Oreg. Protector for boots or shoes	346,776	Aug. 3	402	111	36	539
Rodes, Florida M., Fayetteville, assignor to N. M. Lassiter, Manchester, Tenn. Grate-cover	345,258	July 6	635	161	36	115
Rodes, Robert, Jr., Nashville, Tenn. Bicycle-handle	353,504	Nov. 30	2498	666	37	958
Rodgers, Alexander, Muskegon, Mich. Log-turner	337,705	Mar. 9	1108	286	34	1131
Rodgers, Alexander, Muskegon, Mich. Feed roll	342,228	May 18	1714	456	35	843
Rodgers, O. F., *et al.* (See Nolen, Robert, assignor.)						
Rodgers, Richard, *et al.* (See Save, James R., assignor.)						
Rodgers & Sons, Joseph. (See Hatfield, William B., assignor.)						
Rodgers, Toppan P., Taunton, Mass. Hitching-post	348,475	Aug. 31	2844	766	36	1024
Rodiger, William. (See Redington, William H., assignor.)						
Rodrüian, Jacob G. (See Silbermann and Rodrüian.)						
Rodwell, George J. B., assignor of one-half to H. C. Secord, Toronto, Ontario, Canada. Vulcanized rubber die or stamp	349,664	Sept. 21	1529	395	36	1349
Roe, Alpheus E., assignor to Tatum & Bowen, San Francisco, Cal. Saw-mill set-works	353,886	Dec. 7	341	91	37	1069
Roe, Frederick A., assignor to D. W. Dickson, London, England. Horseshoe-machine	350,603	Oct. 12	708	193	37	136
Roe, John O., *et al.* (See Young, Jacob J., assignor.)						
Roe, John P., and P. R. Bedlington, Bilbao, Spain. Clip apparatus for transporting loads by means of ropes or cables	338,615	Mar. 23	2344	612 613 614 615 616 617	34	1369
Roe, John P., and P. R. Bedlington, Bilboa, Spain. Apparatus for supporting and guiding traveling ropes or cables used in transporting loads	347,443	Aug. 17	1359	362	36	730
Roebuck, Thomas G., Jersey City, N. J. Implement for making covered buttons	355,030	Dec. 28	1999	526	37	1398
Roeder, Frederick A. (See Springer and Roeder.)						
Roeder, Frederick A., Cincinnati, Ohio, assignor, by mesne assignments, to United States Torsion Balance and Scale Company, Jersey City, N. J. Torsional pivot-balance	340,006	Apr. 13	1301	325	35	239
Roeder, Frederick A., deceased, Cincinnati, Ohio; F. Davis, administrator, and assignor, by mesne assignments, to United States Torsion Balance and Scale Company, Jersey City, N. J. Torsional pivot-balance	340,007	Apr. 13	1302	326	35	239
Roeder, Frederick A., deceased, Cincinnati, Ohio; F. Davis, administrator, and assignor, by mesne assignments, to United States Torsion Balance and Scale Company, Jersey City, N. J. Torsional pivot-balance	340,008	Apr. 13	1303	326	35	239
Roehl, Carl, Cherry Valley, assignor of one-half to C. F. Klenze, Davenport, Ill. Hame	350,156	Oct. 5	83	24	37	18
Roehm, Edward R., Detroit, Mich. Blacking-case	353,969	Dec. 7	465	126	37	1091
Roehr, Charles, Bucyrus, Ohio. Sandpapering-machine	342,932	June 1	223	57	35	1046
Roeking, John F., Jackson, Mich. Angular corner for wagon-bodies	343,067	June 1	412	105	35	1081
Roelofs, Anthony, Philadelphia, Pa. Car-door retainer	336,019	Feb. 9	1309	347	34	681
Roemer, William, Newark, N. J. Traveling-bag clip	334,195	Jan. 12	1062	266	34	194
Roemer, William, Newark, N. J. Handle for satchels, &c	334,196	Jan. 12	1003	267	34	194
Roemer, William, Newark, N. J. Bag and satchel frame	340,459	Apr. 20	1940	498	35	361
Roembildt, Henry, Baltimore, Md. Barrel-bung	337,084	Mar. 2	267	71	34	976
Roeseler, August, Hustisford, Wis. Show-rack for farmers' implements	341,693	May 11	1014	268	35	704
Roeske, Henry, assignor of one-half to M. J. Nascimento, Philadelphia, Pa. Filter	348,534	Aug. 31	2933	788	36	1040
Rogers, Albert C., Little Genesee, N. Y. Mowing-machine	348,239	Aug. 31	2522	677 678	36	960
Rogers, Arthur H. and J. H., Springfield, Mass. Printing-stamp	341,771	May 11	1106	293	35	722
Rogers, Benjamin A., Malden, Mo. Fence	342,308	May 18	1845	488	35	865
Rogers & Bros., C. (See Donovan, George L., assignor.)						
Rogers, Charles, Allegheny, Pa. Machine for manufacturing insulator-pins for telegraphic purposes	350,843	Oct. 12	1056	282 283	37	200
Rogers, Charles, Allegheny City, assignor to O. D. Levis, Pittsburg, Pa. Machine for barbing metallic strips	340,619	Apr. 27	2180	574	35	410
Rogers, Charles D., Providence, R. I. Nail-feeding mechanism	334,898	Jan. 26	1956	521	34	384
Rogers, Charles D., Providence, R. I. Fire-alarm apparatus	340,618	Apr. 27	2177	573 574	35	410
Rogers, Charles D., Providence, R. I. Machine for making barbed wire	343,154	June 1	550	139	35	1107
Rogers, Charles D., Providence, R. I., assignor to G. H. Clarke, Brooklyn, N. Y. Grate-bar	344,203	June 22	2051	525	35	1401
Rogers, Charles R., *et al.* (See Howe, Edward P., assignor.)						
Rogers, Charles W. (See Ulings, Charles G., assignor.)						
Rogers, Columbus K., assignor to Z. and A. C. Goodell, Jr., Salem, Mass. Elevator	349,177	Sept. 14	878	225	36	1212
Rogers, Cyrus S., assignor of one-half to C. Berry, Springfield, Mass. Spring-calipers	343,342	June 8	845	213	35	1167

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Rogers, Ebenezer H., Jr., Brooklyn, N. Y. Hand-stamp	353,161	Nov. 23	2005	537	37	858
Rogers, Edmund P., Hyde Park, N. Y. Horseshoe	339,583	Apr. 6	720	176	35	126
Rogers Fence Company. (See Rogers, Timothy, assignor.)						
Rogers, Frederick O., Boston, Mass. Elastic spring-coupling	336,593	Feb. 23	2155	564	34	843
Rogers, George E. (See Pattyson, William D. C., assignor.)						
Rogers & Hamilton Company. (See Shannon, Edward W., assignor.)						
Rogers, Homer, trustee. (See Noble, Oscar L., assignor.)						
Rogers, Homer, trustee. (See Phillips, Charles E., assignor.)						
Rogers, Isaac N., New York, N. Y. Spring-latch for scuttles, &c	333,674	Jan. 5	236	64	34	46
Rogers, James H. (See Rogers, Arthur H. and J. H.)						
Rogers, James S. (See Scripture, Frank, assignor.)						
Rogers, John A., assignor of one-half to A. W. Sharpley and A. C. Henry, Hartsell's, Ala. Sash-balance	348,500	Aug. 31	2881	775	36	1030
Rogers, John A., and J. W. Roan, assignors of one-half to T. M. Ward and J. E. Roan, Hartsell's, Ala. Gate	352,933	Nov. 23	1668	448	37	795
Rogers, Josiah W., Beverly, Mass. Boot or shoe form	352,153	Nov. 9	635	168	37	583
Rogers, Lewis H., Kansas City, Mo. Preparing molds for the electro-deposition of metals	340,460	Apr. 20	1941	499	35	361
Rogers, Lovejoy, Burlington, Iowa. Practice-case for postal clerks	334,473	Jan. 19	1395	376	34	273
Rogers, Nathaniel P., Michigan City, Ind., assignor to Excelsior Grain Door Company. Car-door	348,694	Sept. 7	225	59	36	1088
Rogers, Newton, assignor of two-thirds to J. H. Blake and J. Wharry, Terre Haute, Ind.) Driving mechanism for street-cars	350,017	Sept. 28	2035	525 526	36	1450
Rogers, Preston E., Mullin's Depot, S. C. Seeding-machine	334,396	Jan. 12	1276	344	34	244
Rogers, Samuel C., Hamilton, Ontario, Canada. Saw-filing machine	338,787	Mar. 30	2608	687	34	1421
Rogers, Samuel S., Asotin City, Wash. Ter. Pen-holder	341,350	May 4	528	146	35	600
Rogers, Timothy, assignor to B. C. Converse, Springfield, Ohio. Harrow	352,983	Nov. 23	1737	465 466	37	807
Rogers, Timothy, assignor, by mesne assignments, to Rogers Fence Company, Springfield, Ohio. Lawn-mower	333,549	Jan. 5	69	20	34	16
Rogers, Timothy, assignor, by mesne assignments, to Rogers Fence Company, Springfield, Ohio. Lawn-mower	333,550	Jan. 5	70	20	34	1'
Rogers, William, assignor to himself, A. W. Burke, H. Warner, H. Gehl, and P. Hoelzel, New Orleans, La. Feeding fine fuel	338,105	Mar. 16	1661	432	34	1238
Rogers, William A., Cambridge, Mass. Turning-lathe	354,740	Dec. 21	1600	424	37	1312
Rogers, William H. H. (See Cole, Jonah R., assignor.)						
Roggy, Josef, Saar-Louis, Prussia, Germany. Money-till	337,994	Mar. 16	1511	391 392	34	1210
Roggy, Nicholas, Walnut, Ill. Cultivator	350,506	Oct. 12	574	159	37	112
Rohde, August E. (See Beyer and Rohde.)						
Rohme, James H., Newburg, N. Y. Controlling mechanism for power-driven machinery	336,350	Feb. 16	1823	479	34	778
Rohn, Christian, Providence, R. I. Pen	341,390	May 4	590	162	35	612
Rohn, Christian, Newark, N. J. Packing for piston-rods	354,936	Dec. 28	1874	495	37	1376
Rohrbach, Henry J., Chicago, assignor of one-half to C. Allen, Hinsdale, Ill. Bridge-gate	347,065	Aug. 10	817	218	36	625
Rohrer, Henry, New York, N. Y. Wheel	343,399	June 8	939	234	35	1185
Rohrer, Henry, New York, N. Y., and J. S. Robrer, Lancaster, Pa. Setting tires	345,322	July 13	727	184	36	137
Rohrer, Jacob M., Chewsville, Md. Spring-draft tug	343,068	June 1	413	105	35	1081
Rohrer, John S. (See Rohrer, Henry and J. S.)						
Rolf, Harry C., assignor to Acme Manufacturing Stock Company, Cincinnati, Ohio. Automatic hydraulic compressor of air or other gases	354,487	Dec. 14	1210	324	37	1234
Roll, Leonard, Wilkes-Barré, Pa. Grate-bar	335,540	Feb. 2	624	163	34	552
Rollason, Joseph G. (See Cadbury and Rollason.)						
Rollason, Joseph G. (See McIlvenna and Rollason.)						
Rolle, Friedrich B., Ischopenthal, Saxony, Germany. Grain hulling and scouring machine	337,284	Mar. 2	542	142	34	1026
Roller Bearing Company. (See Boyer, Louis W., assignor.)						
Roller, Josiah W. (See Brown and Roller.)						
Rollins, Alice W., *et al.* (See Coultaus, Joseph A., assignor.)						
Rollins, Daniel M., *et al.* (See Coultaus, Joseph A., assignor.)						
Rollins, Edward K., assignor of one-half to A. E. Hunt, Scranton, Pa. Electric high and low water alarm	341,694	May 11	1015	268	35	704
Rollins, Edward K., assignor of one-half to A. E. Hunt, Scranton, Pa. Air-valve for radiators	350,844	Oct. 12	1059	283	37	200
Rollins, Edward K., assignor of one-half to A. E. Hunt, Scranton, Pa. Ceiling-collar for gas, steam, and other pipes	353,505	Nov. 30	2498	667	37	958
Rollins, George L., Bridgewater, Mass. Cotton-gin	340,061	Apr. 13	1374	345	35	251
Rollins, Harrison S., Chicago, Ill. Snow-plow	344,405	June 29	2328	600	35	1459
Rollins, Samuel G., Boston, Mass. Ore-crusher	337,085	Mar. 2	268	72	34	976
Rolow, Artemus, Cherokee, Iowa. Plow	345,992	July 20	1708	440	36	319
Rolow, Artemas, Cherokee, Iowa. Plow. (Reissue)	10,775	Oct. 26	2355	613	37	450
Romadka, Anton V., Milwaukee, Wis. Caster for trunks	335,148	Feb. 2	68	18	34	453
Romadka, Anton V., Milwaukee, Wis. Caster for trunks	335,149	Feb. 2	69	19	34	453
Romaine, Robert, Ottawa, Ontario, Canada. Ice-breaking vessel	355,314	Dec. 28	2265	597	37	1451
Romans, Abijah L., and J. M. Peregrine, Jamestown, N. Y.; said Romans assignor to said Peregrine. Thill-coupling	335,844	Feb. 9	1068	282	34	640
Romans, Abijah L., and J. M. Peregrine, Jamestown, N. Y.; said Romans assignor to said Peregrine. Thill-coupling	342,539	May 25	2195	581	35	936
Romans, John B., assignor of one-half to C. R. Coolidge, Helena, Ark. Baling-press	346,827	Aug. 3	458	126	36	549
Romans, John B., assignor of one-half to C. R. Coolidge, Helena, Ark. Baling-press	352,572	Nov. 16	1176	317 318	37	693
Romanze, Otto, Tonsley Hill, Wandsworth, London, county of Surrey, assignor to Mason, Thornton & Romanze, Wandsworth, London, England. Electric-arc lamp. (Reissue)	10,738	June 22	2229	574	35	1434
Romberg, Henry J., Newark, N. J. Car-brake	342,636	May 25	2331	616	35	962
Römer, William, Newark, N. J. Bag or satchel frame	350,641	Oct. 12	772	211	37	147
Romig, William. (See Wealand, Henry K., assignor.)						
Roncaglia, Augustine, Denver, Colo. Cable-brake	339,697	Apr. 13	890	218 219	35	163
Roney, John A., Corning, N. Y. Furnace-door	338,616	Mar. 23	2349	617 618	34	1370
Rood, Ebin N. (See Dike and Rood.)						
Rood, Edwin O., Maple Park, Ill. Hoisting apparatus	334,810	Jan. 26	1851	493	34	365
Rood, H. W. (See Weber, Adolph, assignor.)						
Rood, John, assignor, by mesne assignments, to Rood & Vaughan, Salem, Mass. Machine for shaving skins	339,323	Apr. 6	300	75	35	57
Rood & Vaughan. (See Rood, John, assignor.)						
Rooke, William, assignor to Michigan Manufacturing Company, Jackson, Mich. Two-wheeled vehicle	350,158	Oct. 5	85	24	37	18

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Rooney, Arthur. (See Owens, John W., assignor.)						
Roop, Jacob W., Harrisburg, Pa. Barbed fencing-strip	345,259	July 6	636	161	36	115
Ross, Edward, Galt, Ontario, Canada. Woolen or felt stocking, sock, slipper, boot or shoe	341,772	May 11	1107	294	35	722
Ross, M. (See Norris, Fredesco S., assignor.)						
Rossen, August R., Hamburg, Germany. Preservation of food substances	350,018	Sept. 28	2037	.....	36	1451
Roosevelt, Hilborne L. (See Haskell, Charles S., assignor.)						
Roosevelt, Hilborne L., New York, N. Y., and C. S. Haskell, Philadelphia, Pa.; said Haskell assignor to said Roosevelt. Pneumatic action for organs	336,351	Feb. 16	1824	479	34	778
Roosevelt, Hilborne L., New York, N. Y., and C. S. Haskell, Philadelphia, Pa. Cabinet pipe-organ	340,461	Apr. 20	1943	499 / 500	35	361
Root, Adam F., and C. B. Myers, Mount Joy, Pa. Corn-sheller	350,642	Oct. 12	773	211	37	117
Root, Benjamin M. (See Farquhar, Eisenbart, and Root.)						
Root, Chester D. (See Harty, William, assignor.)						
Root, Dexter A., South Bay City, Mich. Roller-skate	353,644	Nov. 30	2719	726	37	937
Root, Frederick, St. Joseph, Mich. Rein-holder	343,279	June 8	756	183	35	1148
Root, George E., Indianapolis, Ind. Coal-breaker	342,811	June 1	51	13	35	1015
Root, Henry D., Reading, Ohio. Check-valve for pumps	339,584	Apr. 6	721	175	35	126
Root, John B., Port Chester, N. Y. Pipe	335,631	Feb. 9	755	203	34	594
Root, John B., Port Chester, N. Y. Spiral-pipe machine	346,500	Aug. 3	64	16, 17	36	472
Root, John B., Port Chester, N. Y. Heating metal for welding	346,611	Aug. 3	205	56	36	500
Root, John B., Port Chester, N. Y. Spiral pipe machine	346,612	Aug. 3	206	56	36	500
Root, John B., Port Chester, N. Y. Machine for making metal pipes	346,613	Aug. 3	208	56	36	500
Root, John B., Port Chester, N. Y. Welding-machine	346,614	Aug. 3	209	57	36	501
Root, John B., Port Chester, N. Y. Machine for making spirally-jointed metal pipes	346,615	Aug. 3	210	57, 58	36	501
Root, John B., Port Chester, N. Y. Welding-machine	346,828	Aug. 3	459	126	36	540
Root, John B., Port Chester, N. Y. Machine for making spirally-formed pipe	353,431	Nov. 30	2389	637	37	937
Root, Russell H., South Orange, N. J. Permutation-lock	345,323	July 13	730	184	36	138
Root, Timothy C., Erie, Pa. Rotary wire brush	339,585	Apr. 6	722	177	35	126
Root, Timothy C., Erie, Pa. Grinding and polishing machine	343,650	June 15	1283	322	35	1253
Roots, Francis M., Connersville, Ind. Portable forge	349,360	Sept. 21	1130	291	36	1270
Roots, Francis M., Connersville, Ind. Journal-box	349,361	Sept. 21	1131	291	36	1270
Roots, Francis M., Connersville, Ind. Stop mechanism for driving-shafts	349,362	Sept. 21	1131	291	36	1270
Roots, Francis M., Connersville, Ind. Fire-bed and tuyere	349,363	Sept. 21	1132	292	36	1270
Roots, Francis M., Connersville, Ind. Housing for cog-wheels	349,364	Sept. 21	1133	292	36	1271
Roots, Francis M., Connersville, Ind. Shaft-coupling	349,365	Sept. 21	1134	292	36	1271
Roots, James, London, England. Oil-lamp	349,262	Sept. 14	993	253	36	1235
Roots, James, Baker Street, Middlesex, assignor to Domeier & Co., London, England. Preparing burning oil for lamps and resulting product	340,522	Apr. 20	2038	.....	35	379
Roovers, Alexander H. and A. W., New York, and P. G. Williams, Brooklyn, N. Y. Galvanic battery	336,352	Feb. 16	1827	479	34	778
Roovers, Alfred W. (See Roovers and Williams.)						
Röper, Victor, Duisburg-on-the-Rhine, Prussia, Germany. Chain-machine	338,106	Mar. 16	1663	432	34	1239
Ropp, Jerome W., Elyria, Ohio. Loop and bar for harness	336,594	Feb. 23	2156	564	34	843
Rorabaek, John Z. (See Edgar, Joseph M., assignor.)						
Rorick, John C., Wauseon, Ohio. Fabric-turfing implement	340,895	Apr. 27	2555	673	35	476
Rosado, Donato, New York, N. Y. Clasp for garments	349,903	Sept. 28	1878	485	36	1422
Roscoe, Allison M., *et al.* (See Boyer, Thomas J., assignor.)						
Roscoe, Allison M., assignor of two-thirds to G. D. Hamor and E. Kantz, Du Bois, Pa. Sash-fastener	339,324	Apr. 6	302	76	35	57
Rose, Albert W., South Chicago, assignor to J. Hogg, Chicago, Ill. Bolt-machine	355,102	Dec. 28	2107	553	37	1419
Rose, Allen W., New York, N. Y. Telephone-transmitter	354,241	Dec. 14	871	230 / 231	37	1172
Rose, Andrew L., West Troy, N. Y. Pipe-vise	334,615	Jan. 19	1589	423	34	308
Rose, Ernst. (See Van Schaumburg, Louis S., assignor.)						
Rose, George W., assignor of one-half to R. Fielding, Paterson, N. J. Barrel-truck	349,665	Sept. 21	1530	395	36	1349
Rose, Herman O. (See Spencer, Ralph L., assignor.)						
Rose, Hilend R., Poughkeepsie, N. Y. Covering for brick-backs	352,839	Nov. 16	1537	414	37	760
Rose, John H., Prairie du Sac, Wis. Adjustable reel for harvesters	337,285	Mar. 2	543	143	34	1027
Rose, Philip L., and G. Rein, St. Louis, Mo. Toll-collecting mechanism for telephone-exchange systems	346,866	Aug. 3	520	142	36	561
Rose, Philip L., and G. Rein, assignors of three-fourths to C. Hoyle, St. Louis, Mo. Automatic telephone-toll system	346,865	Aug. 3	516	141	36	560
Rose, Preston B., Ann Arbor, Mich. Food compound	351,404	Oct. 26	1885	.....	37	361
Rose, Wesley, Sacramento, Cal. Smoke-bonnet	354,937	Dec. 28	1877	495	37	1377
Rose, William P. (See Tinsley and Rose.)						
Rosebaugh, John C. (See Stahl and Rosebaugh.)						
Rosebrook, Frank, Elmira, N. Y. Incubator	349,749	Sept. 28	1674	432	36	1381
Rosebrooks, John M., assignor to W. A. Wood Mowing and Reaping Machine Company, Hoosick Falls, N. Y. Harvesting-machine	349,319	Sept. 21	1054	270	36	1255
Rosebush, David, assignor of two-thirds to J. J. Rupp, East Saginaw, Mich. Automatic fire-extinguisher	348,140	Aug. 24	2358	632	36	924
Rosecrans, James H., Cincinnati, Ohio. Scale-indicator	336,595	Feb. 23	2156	564	34	843
Rosell, Claude A. O., Natrona, Pa. Gas or vapor burner	348,346	Aug. 31	2655	716	36	988
Rosenbaum, Arno S., New York, N. Y. Cigar-tip	348,347	Aug. 31	2658	716	36	988
Rosenberg, Seymour H., New Haven, Conn. Machine for shaping corsets	341,773	May 11	1108	294	35	722
Rosenberg, Seymour H., New Haven, Conn. Corset-shaping machine	341,774	May 11	1109	294	35	722
Rosenblatt, Charles A., Smolensk, assignor of one-half to R. G. Salomé, Moscow, Russia. Painting-machine	348,535	Aug. 31	2934	788 / 789	36	1040
Rosenblatt, Samuel, New York, N. Y. Soap-frame	349,320	Sept. 21	1054	270	36	1255
Rosenfield, Anthony. (See Rosenfield, William W., assignor.)						
Rosenfield, William W., assignor to A. Rosenfield, New York, N. Y. Apparatus for controlling horses	344,009	June 22	1765	454 / 455 / 456 / 457	35	1350
Rosensteel, William W., Pittsburg, Pa. Coal-tipple	335,632	Feb. 9	766	203	34	581
Rosensteel, William W., Vanceport, assignor to Oliver Brothers & Phillips, Pittsburg, Pa. Coal-tipple	333,891	Jan. 5	533	145	34	100
Rosenstock, Moritz, New York, N. Y. Bustle or bustle-skirt	345,863	July 20	1528	396	36	286
Rosenthal, Harris. (See Samuels, Marks, assignor.)						
Rosenthal, Henry, New York, N. Y. Brush	349,407	Sept. 21	1195	309	36	1282
Rosenthal, James, *et al.* (See Swan, Henry H., assignor.)						
Rosenthal, Sally A., Berlin, Germany. Pocket sewing-machine	353,970	Dec. 7	466	126 / 127	37	1091
Rosentreter, Frank L., Cleveland, Ohio. Sash-fastener	352,355	Nov. 9	907	243	37	634

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Rosentreter, Frank L., assignor to Champion Safety Lock and Novelty Company, Cleveland, Ohio. Sash-fastener	334,899	Jan. 26	1960	521	34	384
Roser, Harry, Long Island City, assignor to T. G. Palmer, Schultzville, N. Y. Railway-signal apparatus	341,605	May 11	839	234	35	677
Rosevelt, Charles A. (See Ryder and Rosevelt.)						
Rosewarne, William H., Cincinnati, Ohio. Blast-furnace	342,466	May 25	2087	550, 571	35	917
Rosewater, Andrew, Omaha, Nebr. Flushing-tank	343,069	June 1	415	106	35	1082
Rosewater, Andrew, Omaha, Nebr. Flushing-tank	343,853	June 15	1562	396	35	1304
Roshong, Isaiah. (See Roshong, Joseph and I.)						
Roshong, Joseph and I., Canton, Ohio. Door-check	339,586	Apr. 6	723	177	35	126
Rösicke, Hermann, Berlin, Prussia, Germany. Smoke-consuming furnace	350,562	Oct. 12	648	177, 178	37	125
Ross, Alexander, *et al.* (See Kniese, Frederick C., assignor.)						
Ross, Alexander, and S. J. Parker, Rochester, N. Y. Self-binding harvester	345,650	July 13	1223	316, 317, 318	36	226
Ross, Charles, Jr., Brooklyn, N. Y. Paint-mixing machine	348,931	Sept. 7	535	141	36	1145
Ross, Charles H., Albany, N. Y. Luggage-carrier for bicycles	343,549	June 8	1137	287	35	1220
Ross, Donald G., Hatton, Mich. Paving-block machine	339,015	Mar. 30	2942	773	34	1181
Ross, Donald G., East Saginaw, Mich. Railway-tie	346,069	July 29	1813	468	36	338
Ross, Elmore W., Springfield, Ohio. Silo-press	350,845	Oct. 12	1060	283	37	200
Ross, George, Chatham, Ontario, Canada. Sash-window	342,637	May 25	2333	616	35	962
Ross, George O. and M., Ottawa, Kans. Car-coupling	340,956	Apr. 27	2632	694	35	490
Ross, George P., Chicago, Ill. Reversible mitten	334,900	Jan. 26	1961	521	34	384
Ross, George P., Chicago, Ill. Mitten	346,070	July 20	1813	468	36	338
Ross, George W. (See White, Maurice W., assignor.)						
Ross, James B., Toronto, assignor of one-half to H. T. Watkins, St. Bernice, Ind. Convertible chair	333,892	Jan. 5	535	145, 146	34	100
Ross, James S., Nashville, Tenn. Electric time system for telephone-lines	341,110	May 4	187	59	35	539
Ross, James S., Nashville, Tenn. Electric synchronizing mechanism for clocks	341,111	May 4	190	59	35	540
Ross, Lola M. (See Richter, Peter J., assignor.)						
Ross, Lyon P., Rockford, Ill. Combined wash-stand and table	338,646	Mar. 23	2389	629, 630	34	1377
Ross, Martianus. (See Ross, George O. and M.)						
Ross, Perry L., Bradford, Pa. Clasp	342,638	May 25	2335	617	35	963
Ross, Perry L., Bradford, Pa. Attachment for rubber shoes	347,066	Aug. 10	818	218	36	624
Ross, Philip. (See Flower and Ross.)						
Ross, Philip. (See Goldie, George, assignor.)						
Ross, Turner & Co. (See Crawford, George D., assignor.)						
Rossell, James M. (See Stoddard and Rossell.)						
Rossetter, Charles. (See Maban and Rossetter.)						
Rossi, Auguste J., assignor to G. H. Robinson, New York, N. Y. Liquid for the production of cold	353,378	Nov. 30	2307	.....	37	922
Rossney, William C., Hyde Park, assignor to C. A. Shaw, Boston, Mass. Gas-regulator	344,989	July 6	273	70	36	49
Rossney, William C., Hyde Park, assignor to C. A. Shaw, Boston, Mass. Gas-regulator	344,990	July 6	276	71	36	50
Rost, Henry A., Richmond, Indiana. Door-check	345,451	July 13	913	229	36	169
Roswell, Elisha R., and G. H. Conger, Stratford, Conn. Railway-signal	343,070	June 1	415	106	35	1082
Rotary Steam Snow Shovel Manufacturing Company. (See Leslie, Edward, assignor.)						
Rote Automatic Brake Company. (See Rice, Richard R., assignor.)						
Rote Automatic Brake Company. (See Rogers and Linham, assignors.)						
Rote Automatic Brake Company. (See Rote, Charles V., assignor.)						
Rote, Charles V., Lancaster, Pa., assignor to Rote Automatic Brake Company, Mansfield, Ohio. Automatic car-brake	347,010	Aug. 10	727	192, 193	36	607
Rote, Charles V., Lancaster, Pa., assignor to Rote Automatic Brake Company, Mansfield, Ohio. Automatic car-brake	347,011	Aug. 10	730	194, 195	36	607
Rote, Jacob E. (See Dorwart, Benjamin K., assignor.)						
Roth, Charles W., Evansville, Ind. Flour-packer	345,452	July 13	913	229, 230	36	169
Roth, Charles W., Evansville, Ind. Machine for splitting grain	350,945	Oct. 19	1189	316, 317	37	231
Roth, Elias D., assignor of one-half to A. H. Patterson, Fort Collins, Colo. Vehicle-spring	337,791	Mar. 9	1212	315	34	1149
Roth, Julius. (See Kochendorfer, George, assignor.)						
Roth, Lawrence, Cincinnati, Ohio. Machine for printing lumber	353,762	Dec. 7	151	42, 43	37	1035
Roth, McMahon & Co. (See De Tamble, Martin, assignor.) (Reissue.)						
Roth, Reuben D., Mummasburg, Pa. Cow-milker	335,042	Jan. 26	2156	574	34	419
Roth, William, New York, N. Y. Hoisting-machine	349,123	Sept. 14	809	206	36	1199
Rothchild, Joseph, assignor of one-half to H. Berry, Frankfort, Ky. Safety device for engines	354,938	Dec. 28	1877	495	37	1377
Rothermel, William H. (See Thompson and Rothermel.)						
Rothfuss, Michael, Williamsport, Pa. Ratchet-drill	352,266	Nov. 9	795	212	37	611
Rothgiesser, Georg, Bielefeld, Westphalia, Germany. Bicycle-saddle	335,246	Feb. 2	228	60	34	481
Röhlisberger, Samuel, Stockton, Cal. Two-wheeled vehicle	339,215	Apr. 6	141	37	35	27
Rothmunt, Fredrick, San Francisco, Cal. Plow	349,750	Sept. 28	1675	432	36	1381
Rothrock, George W., Indianapolis, Ind. Drawing liquids from casks	350,157	Oct. 5	84	24	37	18
Rothrock, Oscar, New York, N. Y. Feed-water heater	334,197	Jan. 12	1004	267	34	194
Rothschild, Maier, Shamokin, Pa. Mortising-machine	344,868	July 6	105	26	36	19
Rothschild, V. Henry, New York, N. Y. Collar or cuff	341,606	May 11	880	235	35	677
Rottaken, Herbert H. (See Wherry and Rottaken.)						
Rotthoff, William, Pittsburg, Pa. Blast-furnace appliance	336,749	Feb. 23	2369	620, 621	34	883
Rotton, Otto, Brooklyn, N. Y. Cowl	352,573	Nov. 16	1178	318	37	693
Rouart, Stanislas H., Paris, France. Cooling air and apparatus therefor	349,178	Sept. 14	880	226	36	1192
Rounds, George, Vallejo, Cal. Derrick	350,213	Oct. 5	168	49	37	34
Rounds, Ozial H., Welland, Ontario, Canada. Fire-escape	349,366	Sept. 21	1135	292, 293	36	1271
Rountree, Joseph W., assignor to M. J. Wine, Washington, D. C. File-case	339,325	Apr. 6	303	76	35	57
Rouse, Albion M., Boulder, Colo. Machine for reducing ores	350,563	Oct. 12	650	178, 179	37	125
Rouse, Albion M., Boulder, Colo. Machine for pulverizing ores and other materials	350,564	Oct. 12	653	179	37	126
Rouse, Franklin H. (See Norton and Rouse.)						
Rouse, John H., Malden, assignor to J. C. Hollings, Boston, Mass. Clutch for sliding joints	346,867	Aug. 3	521	142	36	561
Rouse, Roswell R., Indianapolis, Ind. Pipe-wrench	346,501	Aug. 3	66	17	36	473

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Rouse, Roswell R., Indianapolis, Ind. Valve-coupling	349,321	Sept. 21	1055	270	36	1256
Rouse, Seymour A., assignor to Globe Tool Company, Indianapolis, Ind. Pipe-wrench	344,406	June 29	2333	601	35	1460
Rouse, William B., *et al.* (See Wood, Joseph B., assignor.)						
Rousseau, David, New York, N. Y. Electrical annunciator	346,609	Aug. 3	202	55	36	500
Rousseau, David, New York, N. Y. Electrical door-opener	352,154	Nov. 9	636	168	37	583
Rousseau, Edouard H., Granby, Quebec, Canada. Buckboard-wagon	355,215	Dec. 28	2267	597	37	1452
Rousseau, François E., H. B. Goodale, Au Sable, and M. Côté, Oscoda, Mich. Car-coupling	336,950	Mar. 2	91	25	34	943
Row, William, assignor of one-half to A. Hirth, Wheeling, W. Va. Boiler-cleaner	349,955	Sept. 28	1949	504	36	1435
Row, William, and R. Bauer, Wheeling, W. Va. Floor for rolling-mills	346,610	Aug. 3	204	55	36	500
Rowand, Archibald H., Pittsburg, and R. S. Hunzeker, Allegheny, Pa. Coupling for pipes	345,732	July 20	1341	348	36	254
Rowand, Archibald H., Allegheny, and R. S. Hunzeker, Pittsburg, Pa. Composition of matter for packing the joints of gas-pipes, &c.	349,751	Sept. 28	1676	.....	36	1381
Rowbottom, William, Allegheny, Pa. Application of cement to pipe-joints	344,407	June 29	2333	.....	35	1460
Rowden, George, assignor to J. R. Williams, Newark, N. J. Machine for stripping and booking tobacco	353,971	Dec. 7	468	127, 128	37	1092
Rowe, Edward. (See Hudson, Rowe, and Heslop.)						
Rowe, Ellis L., assignor to Rensselaer Manufacturing Company, Lansingburg, N. Y. Proportional weighing-scale	334,288	Jan. 12	1138	305	34	220
Rowe, Enoch J., R. Holmes, and E. W. Wells, Eureka, Cal. Amalgamator	354,809	Dec. 21	1689	446	37	1329
Rowe, Frank M., *et al.* (See Johns, Will R., assignor.)						
Rowe, Gottlob, Danville, Pa. Nail-furnace	345,260	July 6	636	162	36	116
Rowe, John T., Aylmer, Ontario, Canada. Adjustable organ-pedal	352,267	Nov. 9	796	213	37	612
Rowe, L. Leroy, Boston, Mass. Crimping tool	354,657	Dec. 21	1480	393	37	1289
Rowell, George A., Brooklyn, N. Y. Tube-expander	343,730	June 15	1415	352	35	1276
Rowell, George A., Brooklyn, N. Y. Tube-cleaner	348,141	Aug. 24	2359	633	36	925
Rowell, John S., S. W., and T. B., Beaver Dam, Wis. Combined or interchangeable seeder and drill	343,280	June 8	737	183	35	1148
Rowell, Samuel W. (See Rowell, John S., S. W., and T. B.)						
Rowell, Theodore B. (See Rowell, John S., S. W., and T. B.)						
Rowland, Alexander M., Brooklyn, N. Y., assignor to R. N. Oakman, Jr., and W. P. Dustin, Greenfield, Mass. Paper-hanger's roller	354,810	Dec. 21	1691	446	37	1329
Rowland, Christian, Lanark, Ill. Power and speed regulator	335,541	Feb. 2	625	164	34	552
Rowland, David E., and W. T. Black, Canton, Ohio; said Black assignor to said Rowland. Extension-ladder	349,666	Sept. 21	1531	395	36	1350
Rowlands, John R., assignor to S. H. Goodwin, Oneida, N. Y. Button	351,341	Oct. 19	1753	461	37	333
Rowles, Eli. (See McFarland, Will F., assignor.)						
Rowlett, John H., D. F. Webster, and P. Pfeiffer, Sedalia, Mo. Chimney and flue cleaner	344,460	June 29	2307	618	35	1471
Rowlett, Oliver B., and W. C. Shoemaker, Richmond, Ind. Fence-machine	352,892	Nov. 16	1607	433	37	775
Rowley, Charles B., Brooklyn, N. Y. Fountain pen-holder	346,131	July 27	1894	489	36	363
Rowley, Edward W., *et al.* (See Petz, John, assignor.)						
Rowney, Thomas W. F., Derby, county of Derby, England. Dental mouth-tube	342,042	May 18	1469	393	35	797
Rowson, Edmond G. (See Rhodes, Stephen E., assignor.)						
Roy, François, Aylmer, Quebec, Canada. Hoop for vessels	335,720	Feb. 9	891	235	34	606
Roy, Isidore V., assignor to Dodge Manufacturing Company, Mishawaka, Ind. Circular-sawing machine	354,811	Dec. 21	1692	446, 447	37	1330
Royall, John P., Columbia, Mo. Globe for showing the directions of the winds	333,971	Jan. 5	649	178	34	122
Royce, Charles N., Phillipston, Pa. Operation of oil-wells	344,137	June 22	1956	499, 500	35	1384
Royce, Emery, Palisade, Dak. Ter. Rotary plow or cultivator	344,791	June 29	2845	737	35	1555
Royce, Emry, Palisade, Dak. Ter. Rotary plow and stalk-cutter	344,596	June 29	2590	671	35	1507
Royce, Ezra, Palisade, Dak. Ter. Sod cutter and pulverizer	344,204	June 22	2052	525	35	1401
Royce, Ezra, Palisade, Dak. Ter. Cutting apparatus	353,233	Nov. 23	2099	562	37	877
Royce, George A. (See Gascone and Royce.)						
Royce, Wesley, Toledo, assignor of one-half to J. F. Kilby, Sandusky, Ohio. Stop-valve for water and gas mains	337,438	Mar. 9	778	198	34	1074
Royds, John, Chester, Pa. Extension-ladder	333,784	Jan. 5	395	107	34	75
Royer, David H., Millmont, Pa. Blind-operating device	339,326	Apr. 6	305	76	35	58
Royer, David H., Millmont, Pa. Shutter-worker	348,142	Aug. 24	2360	633	36	925
Royer, Jacob J., Patricksburg, assignor of one-half to D. Funk, Bowling Green, Ind. Railway-gate	351,128	Oct. 19	1471	385	37	282
Ruault, Armand E. A., Paris, France. Surgical aspirator, &c	350,895	Oct. 12	1123	299	37	212
Rubber and Celluloid Harness Trimming Company. (See Tompkins, Samuel E., assignor.)						
Rubenstein, Nathan, Chicago, Ill. Clothes-hook	338,677	Mar. 23	2435	642	34	1385
Rubin, Eduard, Thun, Switzerland. Bullet	338,191	Mar. 16	1773	462	34	1261
Rubin, Eduard, Thun, Switzerland. Barrel for fire-arms	338,192	Mar. 16	1774	462	34	1261
Rubin, Max. (See Karp, Ida, assignor.)						
Rucker, William L., Martinsville, Mo. Corn-planter	336,750	Feb. 23	2372	621	34	883
Rudd, Charles L., and E. J. Manning, Lake City, Minn. Portable folding hammock-stand	337,792	Mar. 9	1213	315	34	1149
Rudd, John N., assignor of one-half to S. Parker, Sparta, Tenn. Fruit-gatherer	338,303	Mar. 23	1919	505	34	1295
Ruddell, Hiram, Atlanta, Ga. Shutter-worker	350,896	Oct. 12	1126	299	37	212
Ruddy, Robert. (See Kaczander and Ruddy.)						
Ruddy, Robert, Mount Vernon, assignor to Nathan Manufacturing Company, New York, N. Y. Lubricator	334,679	Jan. 19	1676	448	34	324
Rude Brothers Manufacturing Company. (See Swope, Horace G., assignor.)						
Rudigear, Andrew, *et al.* (See Douglas, Edward J., assignor.)						
Rudolph, Charles E. (See Matthias and Rudolph.)						
Rudolph & Kühne. (See Kühne, Felix, assignor.)						
Ruediger, Theodor, Chaska, Minn. Wire-fence gate	350,082	Sept. 28	2126	550	36	1468
Ruef, Charles S., assignor to Grand De Tour Plow Company, Dixon, Ill. Wheel-plow	353,234	Nov. 23	2100	562, 563	37	877
Rueff, Emil. (See Couvert and Rueff.)						
Ruekstuhl, John, Matteawan, N. Y. Ripping-tool	334,724	Jan. 19	1740	464	34	336
Ruëlius, Louis, Philadelphia, Pa. Toy railway	351,599	Nov. 2	96	27	37	476
Ruenzi, Joseph W., Troy, Mo. Prison, vault, and safe alarm	342,709	May 25	2438	647	35	981
Ruesch, Jacob, Milwaukee, Wis. Alarm-counter for printing-presses, &c	354,024	Dec. 7	544	147, 148	37	1105
Rufer, William T. (See Baron and Rufer.)						
Ruffin, Robert. (See Ruffin, William and R.)						
Ruffin, William and R., Como, Miss. Wheel cultivator and fertilizer-distributer	336,163	Feb. 16	1541	406, 407	34	727
Ruge, William G., and O. Evertz, Washington, Mo. Horse-collar	336,869	Feb. 23	2526	666	34	912

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ruger, Augustus, assignor to J. W. Ruger & Co., Buffalo, N. Y. Cracker-machine	343,343	June 8	846	214	35	1168
Ruger & Co., J. W. (See McVicar and Glor, assignors.)						
Ruger & Co., J. W. (See Ruger, Augustus, assignor.)						
Ruger, Nelson, Wilkes-Barré, Pa. Grate-bar	343,922	June 15	1646	422	35	1322
Rugg, Charles W., Cambridge, Mass. Steam-heating apparatus	348,932	Sept. 7	535	141 142	36	1145
Ruggles, Mary, Saratoga Springs, N. Y. Cooking attachment for heating-stoves	352,488	Nov. 9	1066	257	37	666
Ruggles, William G., Hydes Mills, Wis. Shipping-case	348,171	Aug. 24	2410	646	36	934
Rumble, A. Carson, assignor of one-half to C. E. Phinney, Lima, Ohio. Egg-carrier	343,968	June 15	1712	438	35	1333
Rumely, Meinrad, La Porte, Ind. Spark-arrester	353,379	Nov. 30	2308	617	37	922
Rumely, Meinrad and W. N., La Porte, Ind. Steam-boiler	347,384	Aug. 17	1272	338	36	715
Rumely, William N. (See Rumely, Meinrad and W. N.)						
Rumetsch, Katy, San Francisco, Cal. Key-hole guard	345,396	July 13	831	209	36	155
Rummell, Richard W., Buffalo, N. Y. Ellipsograph	333,972	Jan. 5	651	178	34	122
Rumpf, Charles E., Youngstown, Ohio. Sweat-pad for hats and caps	347,891	Aug. 24	2010	533	36	859
Rumpf, Gustave, Frankfort-on-the-Main, Prussia, Germany, assignor to Verein für Chemische Industrie in Mainz. Producing chlorine	348,348	Aug. 31	2658	.....	36	989
Rumsey, Arthur W., New Kiowa, Kans. Prairie-fire extinguisher	337,086	Mar. 2	269	72	34	976
Rumsey, Arthur W., New Kiowa, Kans. Clevis	353,506	Nov. 30	2499	667	37	958
Rumsey, Charles B., assignor of two-thirds to C. A. Skinner and G. D. Daniels, Homer, N. Y. Positive shuttle-motion for looms	340,523	Apr. 20	2038	524	35	379
Rumsey, Lewis M., St. Louis, Mo. Furnace for roasting and chloridizing ores	343,731	June 15	1415	353	35	1276
Rundel, Thomas J., Brooklyn, N. Y. Coffee-roaster	339,114	Mar. 30	3079	815	34	1504
Rundle, George H., Palmyra, Wis. Hay-rack	339,075	Mar. 30	3019	798	34	1493
Rundle, Thomas, Jr., Iron Mountain, Mich. Smoke-conductor	337,087	Mar. 2	272	72	34	977
Rundlett, George W., Freeport, Ill. Windmill	347,385	Aug. 17	1273	338	36	715
Rundquist, Peter, New York, N. Y. Blind-slat adjuster	335,093	Jan. 26	2230	592	34	432
Ræng, Georg A., Copenhagen, Denmark. Pneumatic speed-indicator	336,069	Feb. 9	1379	365	34	694
Runge, Gustav, and A. Stude, Bremen, Germany. Safety-helmet	354,658	Dec. 21	1481	393 394	37	1289
Runstetler, Andrew, assignor to Farmers Friend Manufacturing Company, Dayton, Ohio. Corn-planter	347,643	Aug. 17	1658	439 440	36	787
Runte, Charles. (See Sugg, Beiersdorf, and Runte.)						
Rupp, John J. (See Rosebush, David, assignor.)						
Ruprecht, Charles, Cleveland, Ohio. Gas-pressure regulator	348,172	Aug. 24	2413	646	36	935
Runyan, Arthur C., Bangor, Mich. Dental cotton-holder	344,328	June 22	2217	570	35	1431
Runyan, Charles C., Mansfield, Ohio. Wrench	336,262	Feb. 16	1701	443	34	754
Runyan, Charles C., Mansfield, Ohio. Sliding-door hanger	342,710	May 25	2439	647	35	982
Rusby, James O., Chico, Cal. Relief-valve	347,892	Aug. 24	2011	533	36	859
Ruscheneck, Henry, Brockport, N. Y. Grain-wheel for mowing-machines	346,443	July 27	2343	602	36	447
Ruschhaupt, Frederick M., Milwaukee, Wis. Compound for protecting walls	350,083	Sept. 28	2127	.....	36	1468
Ruse, Emanuel, Lovettsville, Va. Ironing-table	339,115	Mar. 30	3080	815	34	1504
Rush, George P., Minden, Nebr. Drawer-handle	339,587	Apr. 6	723	177	35	126
Rush, Madison, Philadelphia, Pa. Pencil-sharpener	353,761	Dec. 7	150	42	37	1035
Rush, Peter S., Atlanta, Tex. Steam-engine	346,616	Aug. 3	213	58	36	592
Rushton, John H., Canton, N. Y. Combined mast head and foot gears	352,713	Nov. 16	1378	373	37	731
Russ, Cyrus, Beamsville, Ontario, Canada. Sulky-plow	343,071	June 1	418	106	35	1082
Russell, A. K., administrator. (See Clayton, Robert G.)						
Russell, Anthony O., Cincinnati, Ohio. Electrotype-registering machine	347,256	Aug. 10	1075	288	36	671
Russell, Calvin, and P. H. Cragin, Penn Yan, assignors of one-third to H. Russell, Albany, N. Y. Paper-pulp screen	347,893	Aug. 24	2012	533	36	859
Russell, Charles H., London, county of Middlesex, England. Automatic delivery device	354,341	Dec. 21	1730	458	37	1337
Russell, Clayton W., Springfield, Ohio. Road-vehicle	354,488	Dec. 14	1213	325	37	1234
Russell, Clement, Massillon, Ohio. Grain-drill	335,721	Feb. 9	891	235	34	607
Russell Cutlery Company, John. (See Frary, James D., assignor.)						
Russell, Edward, *et al.* (See Witherell, Loren R., assignor.)						
Russell, Edward A., assignor of two-thirds to H. J. Delaney and R. Giljohan, Milwaukee, Wis. Boiler-water purifier	352,630	Nov. 16	1261	340	37	708
Russell & Erwin Manufacturing Company. (See Burgess, Charles M., assignor.)						
Russell & Erwin Manufacturing Company. (See Eddy, Alfonzo J., assignor.)						
Russell & Erwin Manufacturing Company. (See Jones, Horace K., assignor.)						
Russell & Erwin Manufacturing Company. (See Lyons, Thomas, assignor.)						
Russell & Erwin Manufacturing Company. (See Russell, Henry E., Jr., assignor.)						
Russell & Erwin Manufacturing Company. (See Spencer, William D., assignor.)						
Russell, Fisk, Cambridgeport, Mass. Type-smoothing machine	342,386	May 25	1974	521	35	896
Russell, Frank, Mansfield, Ohio. Flexible blackboard	342,762	May 25	2514	671	35	996
Russell, George, McKeesport, Pa. Cut-off for natural-gas pipes	340,524	Apr. 20	2040	524	35	379
Russell, George, McKeesport, Pa. Evaporator and air-moistener	341,817	May 11	1166	311 312	35	734
Russell, George, assignor to E. H. Leizure, McKeesport, Pa. Gas-supply pipe	337,350	Mar. 2	626	164	34	1041
Russell, George A. (See Sparrow, Alphonso B., assignor.)						
Russell, George W., Lawrence, Mass., assignor to American Sulphite Pulp Company, Portland, Me. Pulp-digester for paper-making	341,434	May 4	638	175	35	620
Russell, George W., Lawrence, Mass., assignor to American Sulphite Pulp Company, Portland, Me. Pulp-producing apparatus for paper-making	341,435	May 4	639	175	35	621
Russell, Gideon A., Lyons, Iowa. Heating-furnace	354,489	Dec. 14	1215	325	37	1235
Russell, Henry. (See Russell and Cragin, assignors.)						
Russell, Henry C. (See Herrinton and Russell.)						
Russell, Henry E., Jr., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock for sliding doors	340,620	Apr. 27	2181	574	35	410
Russell, James C., Beaver Falls, Pa. Manufacture of shovels, spades, and scoops	351,342	Oct. 19	1753	462	37	333
Russell, John H., and A. W. Phelps, Springfield, Wis. Grinding-mill	341,818	May 11	1168	312	35	734
Russell, Joseph A., Constantine, Mich. Carriage-seat	348,240	Aug. 31	2524	678	36	961
Russell, Linus E., and W. Obenchain, Springfield, Ohio. Self-propelling vehicle	341,858	May 11	1228	326 327	35	743
Russell, Manuel, Boston, assignor of one-half to E. H. Palmer, Reading, F. H. Collins, Revere, and C. W. Colesworthy, Boston, Mass. Pump	336,263	Feb. 16	1702	443	34	754
Russell, Milo M., Hayward, Wis. Tongue-support	334,289	Jan. 12	1139	305	34	220
Russell, Philip G., *et al.* (See Graydon, James W., assignor.)						
Russell, Richard M. (See Standish, Arthur K., assignor.)						
Russell, Samuel, Brooklyn, assignor to American Electric Arms and Ammunition Company, New York, N. Y. Electric fire-arm	337,872	Mar. 16	1327	345	34	1177
Russell, Samuel, Brooklyn, assignor to American Electric Arms and Ammunition Company, New York, N. Y. Electric gun	337,873	Mar. 16	1331	345	34	1178

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Russell, William A. (See Gould, Simeon L., assignor.)						
Russell, William A., *et al.* (See Riley, Edwin, assignor.)						
Russell, William A., trustee. (See Ritter and Kellner, assignors.)						
Russell, William F. (See Leighton and Russell.)						
Russell, William F., New York, N. Y. Bustle	336,870	Feb. 23	2527	666	34	912
Russell, William J. (See Simmons, Edward M., assignor.)						
Rust, Lucian A., Loudonville, Ohio. Bicycle	353,380	Nov. 30	2309	617	37	922
Rust, Oscar, Ithaca, N. Y. Well-drilling machine	336,353	Feb. 16	1828	479, 480	34	778
Rüter, Johan S. (See Muller and Rüter.)						
Ruth, Charles E., Atalissa, Iowa. Combined double desk and book-case	347,278	Aug. 10	1104	295	36	676
Rutherford, Allan. (See Thompson, Thomas, assignor.)						
Rutherford, John C. (See Horne, Henry M., assignor.)						
Rutherford, Robert. (See Anderson and Rutherford.)						
Rutherford, Robert, Reutchler, and T. Moore, O'Fallon, Ill. Reversing-gear for engines	352,489	Nov. 9	1067	287	37	666
Ruthven, John A. C. (See Coghill and Ruthven.)						
Ryan, Charles L., Galena, Ill. Smoking and drying apparatus	354,072	Dec. 7	609	167	37	1118
Ryan, Edward H., Philadelphia, Pa. Vehicle-jack	349,179	Sept. 14	881	226	36	1213
Ryan, John and P., New York, N. Y. Wrench	339,813	Apr. 13	1036	257	35	190
Ryan, Patrick. (See Carroll and Ryan.)						
Ryan, Patrick. (See Ryan, John and P.)						
Ryan, Thomas E. (See Chapman, Joseph A., assignor.)						
Ryan, William, *et al.* (See O'Riordan, James, assignor.)						
Rybacek, Frank H., Riverside, Iowa. Corn-planter	349,455	Sept. 21	1261	327	36	1295
Ryder, Enoch W., and C. A. Rosevelt, Keeler, Mich. Check-rower tension device	347,832	Aug. 24	1927	511	36	846
Ryder, Sumner G., assignor to Standard Tool Company, Cleveland, Ohio. Machine for grinding twist-drills	344,329	June 22	2218	571	35	1431
Ryder, Sumner G., assignor to Standard Tool Company, Cleveland, Ohio. Machine for clearing twist-drills	350,214	Oct. 5	169	49, 50	37	35
Ryer, George W. (See Porter, John B., assignor.)						
Rykard, John W., Abbeville, S. C. Automatic fan	334,053	Jan. 12	774	211, 212	34	152
Rykard, John W., Abbeville, S. C. Car-coupling	340,525	Apr. 20	2041	524, 525	35	379
Rykard, John W., Abbeville, S. C. Cotton-chopper	354,519	Dec. 14	1261	337	37	1243
Ryland, Caius T., Jr., San José, Cal. Velocipede	342,467	May 25	2088	552	35	917
Ryland, Caius T., Jr., San José, Cal. Railway-cable grip	354,873	Dec. 21	1779	469	37	1346
Rylands, Dan, Stairfoot, Barnsley, county of York, England. Forming indents in glass bottles	347,741	Aug. 17	1787	476	36	810
Rylands, Dan, Stairfoot, county of York, England. Punching holes in bottles	347,742	Aug. 17	1788	476	36	810
Ryle, John, Paterson, N. J. Machine for singeing fabrics	334,474	Jan. 19	1396	377	34	273
Rymascheffski, Paul. (See Galitzinsky and Rymascheffski.)						
Rynear, Moses, New York, N. Y. Artificial tooth-crown	342,761	May 25	2513	671	35	996
Sabey, Anton C., Kansas City, Mo., assignor to himself and G. P. Bent, Chicago, Ill. Sewing-machine	353,381	Nov. 30	2310	617, 618	37	922
Sabin, Almer L., Washington, Ind. Burglar-alarm	337,995	Mar. 16	1513	392	34	1210
Sabine, Hylas, Columbus, Ohio. Metal extension-cap for piles	340,820	Apr. 27	2456	646	35	459
Sabold, John, Little Oley, Pa. Ingot-mold	348,779	Sept. 7	327	87	36	1108
Sabold, John, Little Oley, Pa. Ingot-mold	354,741	Dec. 21	1603	425	37	1312
Sabold, John, Little Oley, Pa. Ingot-mold	354,742	Dec. 21	1605	425	37	1312
Sabold, John, Little Oley, Pa. Ingot-mold	354,743	Dec. 21	1606	425	37	1312
Sabot, Francis, Philadelphia, Pa. Drawer-slide	354,744	Dec. 21	1608	426	37	1313
Sachleben, Henry G. (See Crecelius and Sachleben.)						
Sachs, Edward. (See Luzenberg and Sachs.)						
Sachs, Gustav A., Valley City, Dak. Ter. Breech-loading fire-arm	353,432	Nov. 30	2391	638	37	938
Sackett, George H., Brooklyn, N. Y. Fountain-pen	349,752	Sept. 28	1677	433	36	1381
Sackett, George H., Brooklyn, N. Y. Fountain-pen	353,162	Nov. 23	2006	538	37	859
Sackett, George H., assignor to G. O. Sackett, Brooklyn, N. Y. Fountain-pen	347,961	Aug. 24	2120	565	36	880
Sackett, George H., Brooklyn, N. Y., assignor to N. Sheldon, Providence, R. I. Fountain-pen	349,753	Sept. 28	1678	433	36	1382
Sackett, George O. (See Sackett, George H., assignor.)						
Sadtler, Samuel P. (See Sarmiento and Grimm, assignors.)						
Safety Gate Company. (See Mills, Mortimer B., assignor.)						
Safety Steam Generator Company. (See Zell, Robert R., assignor.) (Reissue.)						
Safford, Clarence E., Lancaster, N. Y. Radiator	355,216	Dec. 28	2267	597	37	1452
Safford, John L., Mars Hill, Me. Car-coupling	342,639	May 25	2335	617	35	963
Sage, Carlton. (See Warner, Lorenzo D., assignor.)						
Sage, Carlton E., *et al.* (See Marker, Frank H., assignor.)						
Sage, John, *et al.* (See Sweet, Welcome F., assignor.)						
Sage, John C., Gainesville, Ga. Ditching-machine	350,271	Oct. 5	232	68	37	48
Sage, John C., Gainesville, Ga. Grading-machine	354,745	Dec. 21	1609	426	37	1313
Sagendorph, L. Lewis, assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Machine for corrugating sheet metal	342,387	May 25	1976	521, 522	35	896
Sagendorph, L. Lewis, assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Registering device	342,388	May 25	1978	522	35	897
Sagendorph, Longley L., assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Shears	355,103	Dec. 28	2108	554	37	1420
Sager, Rockwood, *et al.* (See Johns, Will R., assignor.)						
Sague, Horace, Poughkeepsie, N. Y. Vehicle-wheel	350,321	Oct. 5	295	84	37	60
Sahlström, Carl A., Jönköping, Sweden, assignor to Normal Company, (limited,) Westminster, England. Making extracts from fish	353,822	Dec. 7	240	.....	37	1051
Sahlström, Carl A., Jönköping, Sweden, assignor to Normal Company, (limited,) Westminster, England. Extracting oil from marine animals	353,823	Dec. 7	241	.....	37	1051
Sahlström, Carl A., Jönköping, Sweden, assignor to Normal Company, (limited,) Westminster, England. Obtaining glue from marine animals	353,824	Dec. 7	242	.....	37	1051
Sailliez, Clotaire, What Cheer, Iowa. Railway tie or sleeper	345,733	July 20	1342	349	36	255
Saint-Aubin, Antoine L., Reims, France. Process of and apparatus for treating coffee	344,597	June 29	2591	671	35	1507
Sajous, Charles E., *et al.*, executors. (See Bergner, Theodore.)						
Saladee, Cyrus W., Birmingham, Conn. Vehicle	345,179	July 6	521	134	36	95
Salisbury, Charles H. (See Kittleson, Ole O., assignor.)						
Salisbury, Edgar J., Mount Clemens, Mich. Packing liquids	342,540	May 25	2196	581	35	936
Salles, George C. (See Barnes and Salles.)						
Salmon, William C., Portland, Oreg. Steam engine or pump	333,675	Jan. 5	236	64, 65	34	46
Salmon, William C., Portland, Oreg. Steam engine or pump	347,644	Aug. 17	1660	440	36	788
Salmon, William S., and W. E. Haislett, assignors to Cleaver & Hollis, Wilmington, Del. Grater	337,619	Mar. 9	1003	258	34	1114

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Salois, Joseph, Lawrence, Mass. Adjustable thimble for stove-pipes	350,322	Oct. 5	296	84, 85	37	60
Salomé, Robert G. (See Rosenblatt, Charles A., assignor.)						
Salomo, Hugo, Melbourne, assignor of one-half to J. Drysdale and J. Fraser, 131 King Street, West Melbourne, Victoria. Rotary pump and blower	351,129	Oct. 19	1472	385, 386	37	282
Salomon, Etienne, assignor of one-half to W. C. Hibbard, Montreal, Quebec, Canada. Friction-clutch	354,242	Dec. 14	873	231	37	1173
Salomon, Rudolph G., Newark, N. J. Vamp for boots or shoes	354,349	Dec. 14	1033	275	37	1202
Salomon, Siegmund L., Brooklyn, N. Y. Apparatus for renovating fabrics	342,541	May 25	2197	582	35	936
Salter, Joseph R., Thomasville, Ga. Cultivator	346,617	Aug. 3	214	59	36	502
Saltzer, Isaac J., Prescott, Pa. Sash-fastener	346,777	Aug. 3	403	111	36	539
Sample, George W., York, Pa. Oil mixer and emulsifier	336,438	Feb. 16	1942	509	34	800
Sample, James K., Hastings, Nebr. Motor	353,006	Nov. 23	1774	477	37	814
Sample, John, Norwood, Mass. Can-opener	347,067	Aug. 10	819	218	36	624
Sampson, Adolph, W. H. Wright, and F. L. Kinsman, Buffalo, N. Y. Thill-coupling	334,476	Jan. 19	1398	377	34	273
Sampson, Elmer W., *et al.* (See Young, William J., assignor.)						
Sams, Joseph H., West Kensington, county of Middlesex, England. Fire-place front	349,813	Sept. 28	1763	456	36	1398
Sams, Joseph H., West Kensington, county of Middlesex, England. Fire-place front	349,814	Sept. 28	1764	456	36	1398
Sams, Lafayette, near Wolcottville, Ind. Fence	355,217	Dec. 28	2269	598	37	1452
Samuel, David, and L. Breidenstein, San Francisco, Cal. Copying-press	341,056	May 4	115	34	35	526
Samuel, Edward. (See Wharton and Samuel.)						
Samuel, Edward, Philadelphia, Pa. Transfer-truck and turn-table	335,483	Feb. 2	551	144, 145	34	539
Samuel, Edward, Philadelphia, Pa. Treating metals	336,439	Feb. 16	1943	509	34	800
Samuel, Edward, assignor to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Railway-switch	335,484	Feb. 2	552	145	34	540
Samuel, Edward, assignor to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Device for controlling the motive power and brakes of power-driven cars	336,751	Feb. 23	2373	621, 622	34	883
Samuel, Edward, assignor to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Chain-guide for hoists	349,520	Sept. 21	1349	351	36	1313
Samuel, Edward, assignor to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Center-bearing for turn-tables	349,956	Sept. 28	1950	504	36	1435
Samuel, Edward, assignor to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Pinion-wheel for traction-engines	352,357	Nov. 9	910	244	37	634
Samuel, Edward, assignor to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Conduit for cable or electrical railways	354,350	Dec. 14	1034	276, 277	37	1202
Samuel, Edward, and V. Angerer, assignors to W. Wharton, Jr., and Company, (limited,) Philadelphia, Pa. Cable-grip	344,598	June 29	2592	671, 672	35	1507
Samuel, Edward, and V. Angerer, assignors to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Cable-grip	352,356	Nov. 9	908	243	37	634
Samuel, Leopold S., Newark, N. J. Diaper	342,043	May 18	1469	393, 394	35	797
Samuels, Marks, assignor to himself and H. Rosenthal, New York, N. Y. Bureau-bedstead	343,858	June 15	1569	398	35	1305
Sanborn, George W., Lower Gilmanton, N. H. Automatic brake	339,698	Apr. 13	891	219	35	163
Sanborn, James S., Boston, Mass. Coffee steamer or urn	342,879	June 1	149	37, 38	35	1033
Sanborn, Norman H., Hampton, N. H. Cattle-stanchion	342,389	May 25	1979	522	35	897
Sanborn, William H., Rochester, N. Y., assignor of one-half to W. H. Stevens, Portland, Me. Bridle and bridle-bit	352,506	Nov. 9	1091	294	37	670
Sandberg, Carl G., Helena, Ark. Cracker-box cover	345,453	July 13	915	230	36	170
Sandelbach, John L., Mount Ida, Wis. Roller and pulverizer	334,984	Jan. 26	2069	552	34	404
Sandelin, Nils F., Chicago, Ill. Window frame and sash	335,633	Feb. 9	767	203	34	585
Sandell, Gustaf R., assignor to Eagle Pencil Company, New York, N. Y. Lead and crayon holder	340,925	Apr. 27	2592	683	35	483
Sanders, Amos, North Vernon, Ind. Desk	350,997	Oct. 19	1299	341	37	250
Sanders, Benjamin F., Boston, Mass. Car-coupling	350,946	Oct. 19	1192	317	37	231
Sanders, Eliza. (See Sanders, Louis, assignor.)						
Sanders, George A., assignor of one-half to A. R. Burfee, Lake Village, N. H. Reflector-holder	353,163	Nov. 23	2008	538	37	859
Sanders, Harry A. (See Sanders, Louis and H. A.)						
Sanders, Henry L., New York, N. Y. Carriage-curtain fastening	350,846	Oct. 12	1061	284	37	200
Sanders, James M., Stokes, Ohio. Water-gate	342,975	June 1	280	72	35	1057
Sanders, James M., Morrisville, Ohio. Cultivator tongue and shovel	355,104	Dec. 28	2108	554	37	1420
Sanders, John S. (See Stinson and Sanders.)						
Sanders, Louis, assignor to E. Sanders, Brooklyn, N. Y. Fastening for hand-bags and other articles	335,311	Feb. 2	317	83	34	498
Sanders, Louis, New York, assignor to E. Sanders, Brooklyn, N. Y. Corset-fastening	352,714	Nov. 16	1380	373	37	731
Sanders, Louis, Brooklyn, and H. A. Sanders, New York, N. Y. Waist-belt buckle	334,901	Jan. 26	1962	522	34	385
Sanders, P. Otto. (See Wilson and Sanders.)						
Sanders, R. H. (See Ozeberger, Joseph, assignor.)						
Sanders, William. (See Wilson and Sanders.)						
Sanders, William B., assignor to J. L. Thiele, Lock Haven, Pa. Surgical chair	344,546	June 29	2531	654	35	1495
Sanders, William S. (See Leggett and Sanders.)						
Sanderson, Frederick, Prospect, Ill. Carpet-cover	336,951	Mar. 2	92	25	34	943
Sanderson, Frederick, Chicago, Ill. Door-bell	354,351	Dec. 14	1036	277	37	1203
Sanderson, George O., Boston, Mass. Portable furnace for tinners	339,934	Apr. 13	1200	299	35	320
Sanderson, Joseph M., Mesopotamia, Ohio. Fence	346,778	Aug. 3	404	111	36	539
Sanderson, William. (See Jeffrey, Albert D., assignor.)						
Sandford, Charles, Paterson, N. J. Broom-holder	344,869	July 6	106	26	36	19
Sandford, Charles, Paterson, N. J. Pantaloon-protector	354,243	Dec. 14	874	231	37	1173
Sandford, Charles, assignor of one-half to E. Sanford, Fenelon Falls, Ontario, Canada. Horse-power	354,842	Dec. 21	1732	459	37	1338
Sandford, William B. (See Pierce and Sandford.)						
Sandmann, Bernhard, Brooklyn, N. Y. Paper-cutting machine	337,286	Mar. 2	544	143	34	1027
Sandmark, Swen P., Ishpeming, Mich. Clock-movement frame	352,715	Nov. 16	1381	373	37	731
Sands, Arthur J., assignor to A. M. Young, Schenectady, N. Y. Chuck for broom-winding machines	341,278	May 4	428	117	35	584
Sanford, Albert, Oshkosh, Wis. Die for forming pikes	337,620	Mar. 9	1004	258	34	1114
Sanford, Addison V., assignor to Cronk Hanger Company, Elmira, N. Y. Low-pressure engine	346,502	Aug. 3	67	17	36	473
Sanford, Benjamin, Smartsville, Cal. Fly-trap	333,676	Jan. 5	237	65	34	46
Sanford, Ebenezer. (See Sandford, Charles, assignor.)						
Sanford, Gelston, Brooklyn, N. Y. Machine for obtaining fibers from leaves and plants	341,171	May 4	279	80	35	556
Sanford, Gelston, deceased, (S. M. Sanford administratrix,) Brooklyn, N. Y. Machine for obtaining fibers from leaves, &c	354,244	Dec. 14	875	232	37	1173

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sanford, George W., assignor of one-half to T. A. Gotrel, Thomaston, Conn. Sweat-scraper for horses	334,198	Jan. 12	1005	267	34	195
Sanford, L. Arthur, assignor of two-thirds to L. A. and R. A. Sanford, Bristol, Conn. Spirit-level	337,621	Mar. 9	1005	258	34	1114
Sanford, Leverett A., *et al.* (See Sanford, L. Arthur, assignor.)						
Sanford, Richard, Providence, R. I. Button-fastener	344,870	July 6	107	27	36	20
Sanford, Ross M., Hobart, N. Y. Device for jointing and setting the teeth of saws	351,286	Oct. 19	1679	441	37	320
Sanford, Rufus A., *et al.* (See Sanford, L. Arthur, assignor.)						
Sanford, Sarah M., administratrix. (See Sanford, Gelston.)						
Sanford, Sidney J., Barrie, Ontario, Canada. Fire-telegraphy	337,439	Mar. 9	779	199	34	1074
Sanford, Stephen, Amsterdam, N. Y. Machine for coloring yarn	346,950	Aug. 10	646	173	36	592
San Francisco Pioneer Woolen Factory. (See Wilcomb, Frank, assignor.)						
Sanger, Isaac S., Waco, Tex. Automatic weighing mechanism for elevators, &c	349,521	Sept. 21	1350	351	36	1314
Sankey, Joseph W. (See Hagge and Sankey.)						
Santany, Lou. (See Hepworth and Santany.)						
Sargeant, Samuel S., Newark, N. J. Hip-strap attachment for harness	342,229	May 18	1715	456	35	843
Sargent, Allan C. (See Sargent, Frederick G. and A. C.)						
Sargent & Co. (See Gilfillan, William, assignor.)						
Sargent & Co. (See Landolt, Henry J., assignor.)						
Sargent & Co. (See Shaw, John H., assignor.)						
Sargent & Co. (See Shaw, John H., assignor.) (Reissue.)						
Sargent & Co. (See Sparks, William E., assignor.)						
Sargent, Dana A., *et al.* (See Murray, James H., assignor.)						
Sargent, Elbridge D. (See Gates and Sargent.)						
Sargent, Frank P., New Haven, Conn. Bed-clothes holder	337,200	Mar. 2	423	111	34	1004
Sargent, Frank P., New Haven, Conn. Device for adjusting shafts	349,005	Sept. 14	646	167	36	1169
Sargent, Frederick G., Westford, Mass. Telephone-transmitter	350,215	Oct. 5	171	50	37	35
Sargent, Frederick G. and A. C., Graniteville, Mass. Wool-washer	354,245	Dec. 14	878	232	37	1173
Sargent, James. (See Puffer, Charles C., assignor.)						
Sargent, James, Rochester, N. Y. Safety-valve	347,516	Aug. 17	1456	387	36	749
Sargent, Lumen, and C. Chase, Upton, Me. Mop-wringer	339,216	Apr. 6	142	38	35	27
Sargent, Prentice, Cambridge, assignor of one-half to T. V. Sargent, Revere, Mass. Heating attachment for lamp-chimneys	351,658	Oct. 26	2261	585	37	433
Sargent, Samuel D., assignor to Stanley Rule and Level Company, New Britain, Conn. Bench-plane	355,031	Dec. 28	2001	526	37	1399
Sargent, Stephen, and C. S. Trask, Lowell, Mass. Vented oil-can	344,010	June 22	1773	457	35	1351
Sargent, Thomas V. (See Sargent, Prentice, assignor.)						
Sarmiento, Ferdinand L., and W. G. Grimm, assignors of one-fifth to S. P. Sadtler, Philadelphia, Pa. Disinfectant	339,935	Apr. 13	1201	.....	35	220
Sass, Victor, and K. Friederich, Berlin, Germany. Secondary battery	354,352	Dec. 14	1037	.....	37	1203
Sasse, Francis, assignor of one-half to B. T. McCartney, Washington, D. C. Fan attachment for elevator-cars	350,947	Oct. 19	1193	317	37	231
Sassinot, Louis R., New Orleans, La. Apparatus for emptying privy-vaults	338,878	Mar. 30	2735	720	34	1445
Sater, Hans H., Dubuque, Iowa. Harrow	334,054	Jan. 12	775	212	34	152
Sattes, John, Butte City, Mont. Ter. Pendulum-hoist	348,780	Sept. 7	328	88	36	1108
Sattley, Archibald. (See Sattley, Marshall, assignor.)						
Sattley, Marshall, assignor to himself and A. Sattley, Taylorville, Ill. Cultivator	348,695	Sept. 7	227	60	36	1088
Sauder, Daniel, Pettisville, Ohio. Windmill	339,476	Apr. 6	525	127 128	35	97
Sauder, John M., Harrisburg, Pa. Map and window-shadecase	338,879	Mar. 30	2736	720	34	1445
Sauder, John M., Harrisburg, Pa. Metallic spring for suspenders, &c	349,904	Sept. 28	1879	485	36	1422
Sauder, John M., Harrisburg, Pa. Reversible car-seat	352,268	Nov. 9	797	213	37	612
Sauer, Albert, and G. F. Sievern, Pittsburg, Pa., assignors of one-half to C. Kahler, New York, N. Y. Gas-pressure regulator	341,607	May 11	881	235	35	677
Sauer, Venant A. (See Hayes and Sauer.)						
Saul, Herman D., Thomaston, Conn. Burglar-alarm	348,781	Sept. 7	329	88	36	1109
Saunders, Arthur C., *et al.*, executors. (See Saunders, Frank.)						
Saunders, Charles B., Columbia, Mo. Dish-washer	352,155	Nov. 9	639	168 169	37	583
Saunders, Charles B., Columbia, Mo. Dish-washer	354,246	Dec. 14	879	232 233	37	1174
Saunders, Charles R. P., assignor of one-half to M. H. Webber and A. T. Sinker, Boston, Mass. Rope-serving machine	333,677	Jan. 5	239	65	34	47
Saunders, David K., and J. E. Welling, Leesburg, Ky. Animal-poke	340,367	Apr. 20	1829	469	35	341
Saunders, Frank, deceased; A. C. Saunders, E. H. Brown, and G. C. Thomas, executors, assignors to C. H. Shaw, Brooklyn, N. Y. Door-check	347,517	Aug. 17	1458	387	36	749
Saunders, Frank, deceased; A. C. Saunders, E. H. Brown, and G. C. Thomas, executors, assignors to C. H. Shaw, Brooklyn, N. Y. Door-check	347,518	Aug. 17	1459	388	36	750
Saunders, George P., Derrick City, Pa. Extension attachment for oil-tank faucets	342,138	May 18	1604	428	35	823
Saunders, Ira J. (See Taylor, Eugene H., assignor.)						
Saunders, Ira J., Union City, Mich. Button-fastener	333,551	Jan. 5	71	21	34	16
Saunders, Isaac R. Nogh, assignor of one-half to A. P. Bone and E. Q. Darr, Shelbyville, Ind. Wire-twister for wire fences	346,618	Aug. 3	215	59	36	502
Saunders, Joseph A., Quaker Hill, Ind. Animal-muzzle	349,408	Sept. 21	1195	309	36	1282
Saunders, William, Washington, D. C. Cultivator	345,734	July 20	1343	349	36	255
Saunders, William L., Jersey City, N. J. Quarry-drill frame	340,251	Apr. 20	1664	422	35	300
Saunders, William L., New York, N. Y. Steam-actuated valve	344,991	July 6	281	71	36	51
Saunders, William L., New York, N. Y. Stone-channeling machine	350,604	Oct. 12	710	194	37	137
Savage, David, Bloomsburg, Pa. Churn	351,655	Oct. 26	2257	584	37	432
Savage, Julius B. (See Deeble, John, assignor.)						
Savage, Richard, San Francisco, Cal. Molding-machine	349,815	Sept. 28	1765	456 457	36	1398
Savage, Robert W. (See Marshall and Savage.)						
Savage, Thomas J., Valley Creek, Tex. Planter	349,860	Sept. 28	1825	471	36	1411
Savery, Thomas H., Wilmington, Del. Wood-grinding machine for paper-pulp	341,172	May 4	282	80, 81	35	556
Saward, George A. (See Castro, Angel, assignor.)						
Sawhill, Frank C. (See McCarty and Sawhill.)						
Sawhill, Frank C., Midway, Pa. Wrench	351,656	Oct. 26	2258	584	37	432
Sawtelle, Henry F., Leominster, Mass. Curry-comb	348,241	Aug. 31	2525	678	36	961
Sawtelle, Henry F., Leominster, Mass. Door-roller	353,507	Nov. 30	2500	667	37	958
Sawyer, Andrew W., Providence, R. I. Cuff-holder	349,456	Sept. 21	1263	327	36	1295
Sawyer, Carrie M., *et al.* (See Burk, Frank W., assignor.)						
Sawyer, Charles H., Mapleton, Dak. Ter. Plow	342,390	May 25	1980	523	35	897
Sawyer, Charles H., assignor to Sawyer Steam Plow Company, Mapleton, Dak. Ter. Traction-engine	336,440	Feb. 16	1945	510	34	800

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sawyer, Edmund O., Point Pleasant, W. Va. Car-coupling	344,599	June 29	2594	672	35	1508
Sawyer, Edward J., Perham, Minn. Machine for setting and adjusting plow-irons	352,156	Nov. 9	640	169	37	584
Sawyer, Francis A., Boston, Mass. Rubber step and carpet	348,782	Sept. 7	331	88, 89	36	1109
Sawyer, George H., Lamoille, Ill. Corn-knife and shield. (Reissue)	10,693	Feb. 23	2564	677	34	919
Sawyer, George H., Lamoille, Ill. Vehicle-seat	339,016	Mar. 30	2943	770	34	1482
Sawyer, George H., Lamoille, Ill. Cultivator	348,242	Aug. 31	2526	678	36	961
Sawyer, George S., *et al.* (See Dyer, Lucius, assignor.)						
Sawyer, Henry, *et al.* (See Remington, William H., assignor.)						
Sawyer, Henry F., Providence, R. I. Ax-helve wedge	338,193	Mar. 16	1774	463	34	1262
Sawyer, Howard D. (See Post and Sawyer.)						
Sawyer, Lemuel B., Boston, Mass. Check-valve for soil-pipe ventilators	340,157	Apr. 20	1511	382	35	283
Sawyer, Orren A., assignor to M. M. Lahue, Lowell, Mass. Weft stop-motion for looms	343,732	June 15	1416	353	35	1276
Sawyer, Rufus H., Boston, Mass. Banner or other like rod	353,464	Nov. 30	2437	650	37	947
Sawyer Spindle Company. (See Carroll, William T., assignor.)						
Sawyer Steam Plow Company. (See Sawyer, Charles H., assignor.)						
Sawyers, Ethan A., *et al.* (See Latham, Ephraim, assignor.)						
Sax, John K., Pittston, Pa. Car-wheel	344,547	June 29	2532	654	35	1495
Saxton & Osgood. (See Osgood, J. Lester, assignor.)						
Saxton, Richard J., Brooklyn, assignor of one-half to T. Day, New York, N. Y. Truck	349,367	Sept. 21	1138	293	36	1271
Saxton, Richard J., Brooklyn, assignor of one-half to T. Day, New York, N. Y. Truck	349,368	Sept. 21	1138	293	36	1272
Saxton, Thomas G., assignor of one-half to C. W. Foushee, Jr., Lexington, Ky. Air-excluder for faucets in beer-coolers	355,218	Dec. 28	2269	598	37	1453
Saye, James R., assignor of one-third to G. A. Knodell and R. Rodgers, St. John, New Brunswick, Canada. Music-leaf turner	351,800	Nov. 2	98	27	37	476
Sayers, Walter S., Chicago, Ill. Ventilator	338,304	Mar. 23	1920	505 / 606	34	1295
Sayre, Charles E., *et al.* (See Smith, Emery P., assignor.)						
Sayre, Charles H., Utica, N. Y. Metallic railway-tie	344,011	June 22	1774	457	35	1351
Sayre, Louis A. (See Cottrell, Herbert, assignor.)						
Sayre, Reuben H., assignor of one-half to F. D. Young and J. E. Koontz, New Martinsville, W. Va. Vehicle-brake	342,933	June 1	225	58	35	1046
Scaife, Charles C., Allegheny City, Pa. Making elevator-buckets	349,754	Sept. 28	1680	433 / 434	36	1382
Scales, Frank. (See Blake, Edwin D., assignor.)						
Scantlin, James B., Fairview, Kans. Cultivator	351,343	Oct. 19	1754	462	37	334
Scarborough, Albert B., *et al.* (See Gooch, Harold, assignor.)						
Scarborough, William, Irwin, Iowa. Wagon-box elevator and dump	342,880	June 1	150	38	35	1033
Scarles, Benjamin, assignor to himself and C. Swinscoe, Clinton, Mass. Ventilator	335,963	Feb. 9	1235	328	34	669
Scarles, Benjamin, assignor to himself and C. Swinscoe, Clinton, Mass. Lantern	336,596	Feb. 23	2157	564	34	843
Scarles, Benjamin, assignor to Clinton Wire Cloth Company, Clinton, Mass Metallic lathing	344,408	June 29	2334	601	35	1460
Scarles, Benjamin, assignor to Clinton Wire Cloth Company, Clinton, Mass. Wire-cloth	345,735	July 20	1345	350	36	255
Scarles, Benjamin, assignor to Clinton Wire Cloth Company, Clinton, Mass. Metallic lathing	346,317	July 27	2163	555	36	414
Scarles, Benjamin, assignor to Clinton Wire Cloth Company, Clinton, Mass. Metallic lathing	349,059	Sept. 14	721	184	36	1183
Scarles, Benjamin, assignor to Clinton Wire Cloth Company, Clinton, Mass. Wire fence	350,698	Oct. 12	847	228	37	161
Scarles, Benjamin, assignor to Clinton Wire Cloth Company, Clinton, Mass. Metallic lathing	351,205	Oct. 19	1577	413	37	302
Scarles, Benjamin, assignor to Clinton Wire Cloth Company, Clinton, Mass. Wire fence	353,328	Nov. 30	2236	599	37	909
Scarritt, Sanford G., St. Louis, Mo. Reclining-chair	337,521	Mar. 9	886	226	34	1091
Scarritt, Sanford G., St. Louis, Mo. Reclining-chair	339,477	Apr. 6	526	128	35	98
Scarritt, Sanford G., St. Louis, Mo. Adjustable foot-rest	341,351	May 4	530	146	35	600
Scattergood, Charles F. (See Cuff and Scattergood.)						
Scattergood, Charles F., Albany, N. Y. Automatic regulator for dentist's vulcanizing apparatus	343,255	June 8	703	174	35	1143
Schaaf, Albert E. (See Haynes and Schaaf.)						
Schaal, Eugen, Stuttgart, Würtemberg, Germany. Manufacture of resin-acid ethers	335,485	Feb. 2	552	.....	34	540
Schaare, Martin, New York, N. Y. Toy kitchen	344,992	July 6	282	71	36	51
Schad, Anton, Louisville, Ky. Tailor's measure	343,859	June 15	1569	398	35	1306
Schad, Ludwig, Berlin, Germany. Production of coloring-matter	354,746	Dec. 21	1611	.....	37	1314
Schade, John, Stamford, Conn. Knob attachment	350,397	Oct. 5	388	112	37	78
Schadt, Tilghman. (See Kratzer, Wayne, assignor.)						
Schaefer, Adam, Philadelphia, Pa. Compound for tempering steel	341,173	May 4	284	.....	35	557
Schaefer, Frederick, Boston, Mass. Electric-lamp holder	339,217	Apr. 6	143	38	35	28
Schaefer, Frederick, Boston, Mass. Electric-lamp switch	339,218	Apr. 6	144	38	35	28
Schaefer, Frederick, Boston, Mass. Incandescent electric lamp	352,006	Nov. 2	403	109	37	533
Schaefer, Frederick, Boston, Mass. Incandescent electric lamp	352,007	Nov. 2	404	110	37	534
Schaefer, John C., assignor to himself and E. A. Lührs, New York, N. Y. Safety-valve for beer-casks	347,645	Aug. 17	1661	440	36	788
Schaefer, John C., and J. A. Hagmayer, New York, N. Y. Safety-valve for beer-casks	337,622	Mar. 9	1006	259	34	1114
Schaeffer, Arthur D., Dayton, Ohio. Pencil-clasp for writing-tablets	351,529	Oct. 26	2070	536 / 537	37	398
Schaeffer, Gottlob, Göppingen, Würtemberg, Germany. Magnetic separator	339,017	Mar. 30	2944	779	34	1482
Schaeffer, Wilkison, *et al.* (See Hardenbergh, Henry D., assignor.)						
Schäffer & Budenberg. (See Westphal, Otto, assignor.)						
Schaffer, John T., and B. L. Steefel, Rochester, N. Y. Paper satchel	335,777	Feb. 9	980	259	34	623
Schaghticoke Powder Company. (See Tolburst, William H., assignor.)						
Schaible, John. (See Keith, Harrison T., assignor.)						
Schaible, Michael, Cheviot, Ohio. Grater	343,141	June 1	530	134	35	1102
Scheibler, Guido, Crefeld, Prussia, Germany. Machine for winding bobbins	344,681	June 29	2696	700	35	1528
Schall, Eugene, Stuttgart, Würtemberg, Germany. Converting petroleum and similar hydrocarbons into acids	335,962	Feb. 9	1234	.....	34	669
Schall, Reuben T., Norristown, Pa. Cart	346,619	Aug. 3	216	59	36	502
Schallehn, Henry, assignor of one-half to H. B. Wareing, London, England. Repetition-action for pianos	338,617	Mar. 23	2350	618	34	1370
Schaper, Kasper H., Linn's Mills, Mo. Grain-scale	349,457	Sept. 21	1264	328	36	1295
Scharar, Christian H., Scranton, Pa. Speed and time recorder	355,312	Feb. 2	318	83	34	498
Scharf, William C. (See Whitney and Scharf.)						
Schastey, Otto L., assignor to J. W. Aitken, New York, N. Y. Sewing-machine	351,939	Nov. 2	309	86	37	514
Schatte, Julius. (See Bleichert and Schatte.)						
Schauer, George K., Osborn, Ohio. Horse hay-rake	350,699	Oct. 12	847	228	37	161
Schausten, August, Washington, D. C. Propelling canal-boats	348,296	Aug. 31	2593	698	36	975
Scheef, Charles, assignor of one-half to Brunswick, Balke, and Collender Company, Chicago, Ill. Shaking-grate for furnaces	338,305	Mar. 23	1922	506	34	1296

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Scheef, Charles, assignor to Brunswick, Balke & Collender Company, Chicago, Ill. Faucet-inclosing fixture for refrigerator-boxes	348,783	Sept. 7	332	89	36	1109
Scheel, John H., New York, N. Y. Convertible keg	338,443	Mar. 23	2131	555	34	1330
Scheeler, Philip, assignor to Scheeler & Sons, Buffalo, N. Y. Elevator-door	347,519	Aug. 17	1461	388	36	750
Scheeler & Sons. (See Scheeler, Philip, assignor.)						
Scheerer, Joseph, San Francisco, Cal. Steam road-roller	352,574	Nov. 16	1179	318 / 319	37	693
Schefold, Frank, New Albany, Ind. Annealing-oven for glass	338,880	Mar. 30	2737	720	34	1445
Scheidler, Carl, Berlin, Germany. Manufacture of phosphates from slags	353,825	Dec. 7	243	.....	37	1051
Scheidler, Reinhard, Newark, Ohio. Wheel	335,964	Feb. 9	1237	329	34	669
Scheidt, Charles. (See Scheidt, Peter and C.)						
Scheidt, Peter and C., Saranac, Mich. Vehicle-spring	346,225	July 27	2027	522 / 523	36	389
Schellenberg, Herman, and E. Stiemke, Horn's Corners, Wis. Egg-register	333,678	Jan. 5	240	66	34	47
Schellenberger, Charles G., St. Paul, Minn. Watch	352,935	Nov. 23	1670	448 / 449	37	795
Schelp, Fred., Jr., Baldwin, Mo. Vehicle-spring	341,057	May 4	116	34, 35	35	526
Schelp, Fred., Jr., assignor of one-half to G. H. Schelp, Ballwin, Mo. Vehicle-spring	339,588	Apr. 6	724	178	35	126
Schelp, George H. (See Schelp, Fred. Jr., assignor.)						
Schenck, Daniel R. (See Schenck, William C. and D. R.)						
Schenck, George W., Brookfield, Mo. Ironing-board	341,279	May 4	430	117	35	584
Schenck, Richard H., New York, N. Y. Window-washing machine	347,520	Aug. 17	1462	388	36	750
Schenck, Robert C., Jr., Dayton, Ohio. Car-door lock	335,778	Feb. 9	981	260	34	623
Schenck, William C. and D. R., Kansas City, Mo. Combined sulky and gang plow	341,509	May 11	744	200 / 201	35	651
Schenck, Stefen. (See Farbaky and Schenck.)						
Schenkel, Nickolas, Allegheny City, Pa. Thill-coupling	340,821	Apr. 27	2457	646	35	459
Schenkenberg, Frederick, Fort Atkinson, Wis. Combined check-rein carrier and blinder-stay	347,444	Aug. 17	1360	362	36	731
Scherbel, Jean. (See Remus, Carl T., assignor.)						
Scherer, Charles, Brooklyn, assignor to Maas, Blum & Co., New York, N. Y. Portfolio	352,358	Nov. 9	911	244	37	634
Scherer, George E. (See Brush, George, assignor.)						
Scherer, Henry. (See Ahrens, George, assignor.)						
Schermerhorn, George W., Philadelphia, Pa. Shifting-ballast center-board	352,934	Nov. 23	1669	448	37	795
Scherr, Frederick, Brooklyn, N. Y. Steam-boiler	336,441	Feb. 16	1948	510 / 511	34	801
Scherr, Frederick, Brooklyn, N. Y. Steam-boiler	338,618	Mar. 23	2351	618	34	1370
Scherr, Frederick, Brooklyn, N. Y. Steam-boiler	339,478	Apr. 6	527	128	35	98
Scheuer, Isaac, New York, N. Y. Shawl-strap handle	347,201	Aug. 10	1002	267	36	658
Scheuer, Simon. (See Leary, Daniel, assignor.)						
Scheuer, Simon, New York, N. Y. Fan	338,881	Mar. 30	2737	721	34	1445
Scheuer, Simon, New York, N. Y. Buckle	339,699	Apr. 13	892	219	35	163
Scheuer, Simon, New York, N. Y. Fastener for traveling-bags, pocket-books, and other articles	340,252	Apr. 20	1665	422	35	309
Scheuer, Simon, New York, N. Y. Fan	340,622	Apr. 27	2184	575	35	411
Scheuer, Simon, New York, N. Y. Fan	340,623	Apr. 27	2185	575	35	411
Scheuer, Simon, New York, N. Y. Fastener for traveling-bags, &c	343,609	June 15	1230	309	35	1244
Scheuerle, Henry, New York, N. Y. Truss	340,832	Apr. 27	2459	646	35	460
Scheuing, George W., Chicago, Ill. Piston-rod packing	342,391	May 25	1981	523	35	897
Schevenell, Leonard. (See Lawson and Bailey, assignors.)						
Schevenell, Leonard, assignor of one-half to T. Bailey, Athens, Ga. Saw-sharpener	348,143	Aug. 24	2362	633	36	925
Schiblt, John D., Little Rock, Ark. Revolving harrow	353,597	Nov. 30	2636	704	37	984
Schickner, William G., Cincinnati, Ohio. Cash-register	349,532	Sept. 21	1352	352	36	1314
Schiefner, Théodore E., Essonnes, Seine-et-Oise, France. Machine for combing rhea, &c	339,327	Apr. 6	306	77	35	58
Schiefner, Théodore E., Essonnes, Seine-et-Oise, France. Machine for spinning rhea, &c	339,328	Apr. 6	309	78	35	59
Schiefner, Théodore E., Essonnes, Seine-et-Oise, France. Machine for preparing ramie, &c	339,329	Apr. 6	311	78	35	59
Schiefner, Théodore E., Essonnes, Seine-et-Oise, France. Machinery for decorticating rhea or ramie, nettles, &c	339,330	Apr. 6	313	79	35	59
Schiefner, Théodore E., Essonnes, Seine-et-Oise, France. Treating ramie or rhea, nettles, &c	339,331	Apr. 6	314	.....	35	59
Schiefner, Théodore E., Essonnes, Seine-et-Oise, France. Boiler for treating rhea, ramie, &c	339,332	Apr. 6	316	79	35	59
Schiefner, Théodore E., Essonnes, Seine-et-Oise, France. Process of and apparatus for dissolving and removing the gum from nettle and other plant fibers	353,468	Nov. 30	2443	652	37	948
Schifferly, Conrad, Fort Wayne, Ind. Churn	337,440	Mar. 9	782	199	34	1074
Schiller, Charles, Baltimore, Md. Meat-cutting machine	339,479	Apr. 6	529	128 / 129	35	98
Schilling, Charles, Auburn, N. Y. Shuttle-operating mechanism for looms	340,823	Apr. 27	2460	647	35	460
Schilling, Frederick, assignor to Cargill & Co., Minneapolis, Minn. Wire-netting machine	336,020	Feb. 9	1310	348	34	681
Schilling, William, Hartford, Conn. Head-rest	351,801	Nov. 2	100	28	37	477
Schillinger, Fredrick, Toledo, Ohio. Machine for mixing asphalt	336,164	Feb. 16	1543	407	34	728
Schillinger, Frederick, Toledo, Ohio. Press for making artificial-stone slabs	340,861	Sept. 28	1827	472	36	1411
Schillinger, John J., New York, N. Y. Cable railway	337,623	Mar. 9	1008	259	34	1115
Schillinger, John J., New York, N. Y. Underground conduit for electric wires	337,624	Mar. 9	1009	259	34	1115
Schimmel, Fredrick W., Murray, Idaho Ter. Pendant-stem for watches	351,330	Oct. 26	2071	537	37	398
Schimmel, Oscar, Chemnitz, Saxony, Germany. Apparatus for disinfecting	337,522	Mar. 9	887	226	34	1091
Schimmelpfeng, William, Chicago, Ill. Composition of matter for fire-proof coating building material, &c	344,409	June 29	2336	.....	35	1460
Schinneller, Jacob, Pittsburg, Pa. Gas-conveying conduit	338,559	Mar. 23	2270	595	34	1356
Schinneller, Jacob, Pittsburg, Pa. Sealing natural-gas-pipe joints	341,280	May 4	430	118	35	584
Schinneller, Jacob, assignor of one-half to J. A. McCormick, Pittsburg, Pa. Piston-rod packing	343,923	June 15	1647	422	35	1322
Schirrmeister, Charles, Brooklyn, N. Y. Sewer	344,138	June 22	1958	500	35	1384
Schirrmeister, Charles, Brooklyn, N. Y. Mechanical movement	345,077	July 6	387	98	36	71
Schitler, Hiram, Reading, Pa. Thill-coupling	346,503	Aug. 3	68	18	36	473
Schlaack, Charles H., Big Beaver, Mich. Road-cart	341,281	May 4	431	118	35	584
Schlag, Charles, New York, N. Y. Clasp for chains	335,247	Feb. 2	229	60	34	481
Schlegel, Benno F. (See Wilt, Frank D., assignor.)						
Schlegel, Israel, assignor of one-half to T. Parkinson, Topeka, Kans. Tongue-support for vehicles	335,313	Feb. 2	319	83	34	498
Schlegelmilch, George E., Philadelphia, Pa. Station-indicator	334,902	Jan. 26	1963	522	34	385
Schleicher, Joseph C., assignor of one-half to B. A. O'Keefe, Sun Prairie, Wis. Corn-planter	354,939	Dec. 28	1880	495	37	1377
Schleier, Carolina E., Nashville, Tenn. Convertible chair and table	342,847	June 1	101	25	35	1024

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Schlenker, Erhard, assignor of one-half to Howard Iron Works, Buffalo, N. Y. Hydrant	346,951	Aug. 10	647	173	36	593
Schlesinger & Co., Leo. (See Marx, Philipp, assignor.)						
Schlesinger, David, New York, N. Y. Reversible cap	345,807	July 20	1453	376	36	274
Schlesinger, Julius, Chicago, Ill. Shirt	344,548	June 29	2534	654	35	1495
Schlesinger, William M., Philadelphia, Pa. Electric railway	339 018	Mar. 30	2945	779	34	1482
Schlesinger, William M., Philadelphia, Pa. Switch for electric railways	341,058	May 4	117	35	35	526
Schlesinger, William M., Philadelphia, Pa. Electric-light system	341,059	May 4	118	36	35	526
Schlicht & Field. (See Schlicht, Paul J., assignor.)						
Schlicht, Paul J., Rochester, N. Y. Index	347,304	Aug. 10	1152	308 / 309	36	685
Schlicht, Paul J., assignor to Schlicht & Field, Rochester, N. Y. Bill-file	338,788	Mar. 30	2609	688	34	1422
Schlicht, Paul J., assignor to Schlicht & Field, Rochester, N. Y. Filing-cabinet	355,219	Dec. 28	2270	598	37	1453
Schlicht, Paul J., assignor to Claque, Wegman, Schlicht & Co., Rochester, N. Y. Index	347,305	Aug. 10	1153	309	36	685
Schlichte, Arnold W., New York, N. Y. Straw-board-lining machine	350,272	Oct. 5	235	69	37	49
Schlichting, Albert T., New York, N. Y. Umbrella-handle	335,314	Feb. 2	320	84	34	499
Schlichting, Julius, Merseburg, Germany. Cutting-machine	347,962	Aug. 24	2122	565	36	880
Schlosser, Tobias. (See Hollenberger, John A., assignor.)						
Schlund, Henry, Aston Cross, county of Warwick, England. Revolver	337,201	Mar. 2	424	111	34	1005
Schmaltz, Paul I., Albany, N. Y. Reversible valve-gear	347,386	Aug. 17	1974	339	36	716
Schmaltz, Paul I., Albany, N. Y. Engine valve-gear	347,521	Aug. 17	1463	388	36	750
Schmalz, Arthur, *et al.* (See Nolte, August, assignor.)						
Schmalz, Arthur, assignor of two-thirds to A. Nolte and W. Lorenz, Dundee, Ill. Hot-air or steam motor	340,824	Apr. 27	2461	647	35	460
Schmandt, Charles H. C., Brooklyn, N. Y. Bone-black kiln	345,324	July 13	731	184	36	138
Schmed, John. (See Schmidt, August, assignor.)						
Schmedlen, William H. (See O'Brien and Schmedlen.)						
Schmid, Albert, Pittsburg, Pa. Brush-holder for dynamo-electric machines	353,164	Nov. 23	2009	538	37	859
Schmid, Charles, assignor of one-half to G. Farnsworth, Chicago, Ill. Slide-valve	337,441	Mar. 9	783	200	34	1074
Schmid, Charles, assignor of one-half to G. Farnsworth, Chicago, Ill. Slide-valve for engines	347,012	Aug. 10	734	195	36	608
Schmid, John B., Baltimore, Md. Dovetailing-machine	339,700	Apr. 13	892	219	35	163
Schmid, Joseph, New Orleans, La. Railway-station indicator	334,478	Jan. 19	1400	378	34	273
Schmidlapp, Jacob, New York, N. Y. Extension-ladder	345,808	July 20	1454	376	36	274
Schmidt, Andrew, and C. Revercomb, Winnipeg, Manitoba, Canada. Hose-reel	337,523	Mar. 9	888	226	34	1092
Schmidt, Anton, *et al.* (See Poell, Hermann, assignor.)						
Schmidt, August, assignor of one-half to J. Schmed, Cincinnati, Ohio. Machine for producing ornamental surfaces on textile fabrics	334,477	Jan. 19	1399	377	34	273
Schmidt, Carl M., Berlin, Germany, assignor to F. Richter, Lille, France. Producing water-marks	334,199	Jan. 12	1006	.....	34	195
Schmidt, Christian, assignor of one-fourth to J. Engelhardt, Blue Island, Ill. Cutting apparatus for harvesters	337,625	Mar. 9	1010	259	34	1115
Schmidt, Christian A. (See Steinecke, Samuel, assignor.)						
Schmidt, Christian A., Hoboken, N. J. Chenille ornament	335 315	Feb. 2	321	84	34	499
Schmidt, Claus P., Kansas City, Mo. Gage	349,523	Sept. 21	1355	352	36	1314
Schmidt, E. Hugo. (See Brammer and Schmidt.)						
Schmidt, Eduard, Zimmersrode, Prussia, assignor to L. Schülke, Dusseldorf, Germany. Railway-sleeper	349,524	Sept. 21	1356	352	36	1314
Schmidt, Eugene, Stillwater, Minn. Movable threshold	348,349	Aug. 31	2659	716	36	989
Schmidt, Eugene, Stillwater, Minn. Combined carpet stretcher and tacker	348,350	Aug. 31	2660	716	36	989
Schmidt, Fred A., Minneapolis, Minn. Automatic speed and station indicator	344,993	July 6	283	71, 72	36	51
Schmidt, Friedrich E., Brooklyn, N. Y. Button-hole-cutting and cloth-clamp attachment for sewing-machines	354,247	Dec. 14	881	223	37	1174
Schmidt, Giacomo, assignor of one-half to A. S. Hatfield, New York, N. Y. Burglar-alarm	344,871	July 6	108	27	36	20
Schmidt, Gustav, New York, N. Y. Safety-vent	336,442	Feb. 16	1950	511	34	801
Schmidt, Henry C., and D. W. Thuma, Oregon, Mo.; said Thuma assignor to said Schmidt. Curtain-fixture	348,784	Sept. 7	333	89	36	1109
Schmidt, Herman C., Johnstown, N. Y. Fire-escape	350,773	Oct. 12	946	254	37	180
Schmidt, John G., Philadelphia, Pa. Rammer for street-paving	350,700	Oct. 12	849	229	37	162
Schmidt, Joseph. (See Bosworth and Schmidt.)						
Schmidt, Julius F., Austin, Tex. Combined wardrobe and book-case	353,382	Nov. 30	2312	618	37	923
Schmidt Label and Lithographic Company. (See Rabsskopff, Carl, assignor.)						
Schmidt, Michael, *et al.* (See Perry, Charles A., assignor.)						
Schmidt, Theodore F.W., assignor of one-half to H. H. Lanback, Dayton, Ohio. Paper box	347,646	Aug. 17	1662	441	36	788
Schmidt, Wilhelm, Brunswick, Germany. Steam-engine	348,144	Aug. 24	2364	634	36	926
Schmidt, William. (See Bellstedt, Carl, assignor.)						
Schmiedl, Anton, Philadelphia, Pa., assignor of one-half to E. B. Jordan, Brooklyn, N. Y. Apparatus for holding leather while being scalloped	352,359	Nov. 9	912	244	37	635
Schmitt, George, New York, N. Y. Extension-table	340,368	Apr. 20	1830	469	35	341
Schmitt, Jacob. (See Schmitt, William and J.)						
Schmitt, Joseph. (See Hicks, William H., assignor.)						
Schmitt, Phillip L., assignor to Peerless Oil Ejector Company, Quincy, Ill. Lubricator. (Reissue)	10,780	Nov. 2	558	148	37	562
Schmitt, Phillip L., assignor to Peerless Oil Ejector Company, Quincy, Ill. Lubricator	354,353	Dec. 14	1038	277	37	1203
Schmitt, Robert, Indianapolis, Ind. Machine for sponging cloth	336,752	Feb. 23	2375	622	34	884
Schmitt, Rudolf, assignor to F. Von Heyden, Dresden, Saxony, Germany. Manufacture of salicylic acid	334,290	Jan. 12	1140	.....	34	220
Schmitt, Rudolf, Dresden, Saxony, assignor to F. V. Nachfolger, Radebent, near Dresden, Germany. Manufacture of salicylic-acid compounds	338,365	Mar. 23	2010	.....	34	1311
Schmitt, Rudolf, and C. Kolbe, Dresden, assignors to F. Von Heyden, Radebeul near Dresden, Saxony, Germany. Manufacture of naphthol-carbonic alkaline salts	350,468	Oct. 5	520	.....	37	98
Schmitt, William and J., Cincinnati, Ohio. Machine for buffing moldings	353,972	Dec. 7	470	128	37	1092
Schmitz, Albert, Essen-on-the-Ruhr, assignor to W. Raydt, Hanover, Prussia, Germany. Production of cold and manufacture of ice and apparatus therefor	336,952	Mar. 2	93	25, 26	34	943
Schmitz, Anton, New York, N. Y. Sheet-metal can	342,044	May 18	1470	394	35	797
Schmitz, Friedrich, Chicago, Ill. Amalgam-table for the manufacture of mirrors	341,948	May 18	1341	359	35	774
Schmitz, Henry E., and E. Aldom, Brooklyn, N. Y. Embroidering-machine	337,088	Mar. 2	272	72, 73	34	977
Schmitz, Theodore. (See Bradel, William, assignor.)						
Schmitz, Theodore, New York, N. Y. Fork	350,605	Oct. 12	713	194	37	137
Schmoker, Adolphus, Keuka, N. Y. Grape-basket	341,060	May 4	120	36	35	527
Schneekloth, Hans A., New York, N. Y. Telephone receiver	355,032	Dec. 28	2001	527	37	1399
Schneider, Alois, San Francisco, Cal. Bomb-lance	333,552	Jan. 5	72	21	34	16
Schneider, August, Jr., New Bremen, Ohio. Sad-iron	345,180	July 6	324	134	36	96
Schneider, Bennett B., and H. Brooke, New York, N. Y. Securing glass and metal articles together	342,045	May 18	1471	494	35	797

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Schneider et Compagnie. (See Tardy, Edouard, assignor.)						
Schneider, Henry, Troy, N. Y. Bridge-wall for the fire-beds of steam-boilers	345,809	July 20	1456	377	36	274
Schneider, Mary A. (See Stockton, James K., assignor.)						
Schneider, Paul, and H. Trenkamp, Cleveland, Ohio. Vapor-stove	343,733	June 15	1417	353	35	1276
Schneider, Paul, H. Trenkamp, and N. Flammang, Cleveland, Ohio. Injector	351,287	Oct. 19	1680	441	37	320
Schniedewend & Lee Company. (See Bechman, Henry F., assignor.)						
Schniedewend & Lee Company. (See Wellman, Henry F., assignor.)						
Schnelle, Fridolin, West Hoboken, N. J. Embroidering-machine	335,694	Jan. 26	2231	592	34	433
Schnoor, August, San Francisco, Cal. Weed gatherer and turner	337,442	Mar. 9	786	200	34	1075
Schoch, Caspar, Truckee, Cal. Machine for jointing and dressing circular saws	334,730	Jan. 19	1744	466	34	337
Schoeberlein, George F. and J. A., Jr., Aurora, Ill. Packing-case	355,105	Dec. 28	2109	554	37	1420
Schoeberlein, John A., Jr. (See Schoeberlein, George F. and J. A., Jr.)						
Schoen, Charles T., Philadelphia, Pa. Portable heater	342,640	May 25	1337	617	35	963
Schoen, Charles T., Philadelphia, Pa. Ash-pit for furnaces	347,522	Aug. 17	1464	389	36	750
Schoen, Charles T., Philadelphia, Pa. Car-spring	347,647	Aug. 17	1663	441 / 442	36	789
Schoen, Charles T., Philadelphia, Pa. Grate for furnaces	354,248	Dec. 14	882	233	37	1174
Schoenauer, Otto, Steyr, Austria-Hungary. Magazine fire-arm	336,443	Feb. 16	1951	511	34	801
Schoenberg, Isidor, Baltimore, Md., assignor to American Crystal Light Company, Boston, Mass. Incidence-window for lighting basements, vaults, &c.	354,440	Dec. 14	1144	306	37	1222
Schoendelen, August. (See Schoendelen, Klein, and Schoendelen.)						
Schoendelen, William, W. Klein, and A. Schoendelen, Davenport, Iowa. Tube-expander	350,701	Oct. 12	850	229	37	162
Schoenfeld, David, *et al.* (See Güttinger, Carl, assignor.)						
Schoenfeld, Henry, Baraboo, Wis. Corn-planter	351,405	Oct. 26	1886	491 / 492	37	361
Schoenfeld, Max, *et al.* (See Güttinger, Carl, assignor.)						
Schoening, Charles J., Ravenswood, Ill. Breech-loading magazine-pistol	350,565	Oct. 12	655	179 / 180	37	126
Schoening, Herman, Antwerp, Belgium. Sea anchor or drogue	346,689	Aug. 3	299	82	36	519
Schoeninger, Adolph. (See Unzicker, Otto, assignor.)						
Schoenthaler, Frank C. (See Brown, John H., assignor.)						
Schoenthaler, John C., St. Louis, Mo. Christmas-tree holder	345,925	July 20	1614	416	36	303
Schoepflin, John, Gardenville, N. Y. Feed-cutter	350,159	Oct. 5	86	25	37	19
Schoettle, Ferdinand. (See Bisler and Schoettle.)						
Schoff, Charles H. (See Smith, William H., assignor.)						
Schofield, Charles S. (See Cavenaugh, Robert, assignor.)						
Schofield, Frederick F., Oscoda, Mich. Steam-cylinder	351,657	Oct. 26	2259	585	37	432
Schofield, George K., *et al.* (See Logan, Robert W., assignor.)						
Schofield, Peter, Pomona, N. J. Faucet	334,291	Jan. 12	1141	306	34	220
Schofield, William, Philadelphia, Pa. Lap-feeding device for carding-machines	348,419	Aug. 31	2762	741	36	1009
Schofield, William, Philadelphia, Pa. Lap-feeding device for carding-machines	348,420	Aug. 31	2764	742	36	1009
Schofield, William, Philadelphia, Pa. Lap-feeding device for carding-machines	348,421	Aug. 31	2765	742	36	1009
Schofield, William, Philadelphia, Pa. Roller for endless aprons for carding-machines, &c.	351,531	Oct. 26	2072	537	37	398
Scholl, Michael, San Francisco, Cal. Device for exterminating ground-burrowing animals	344,682	June 29	2698	700	35	1528
Schollhorn & Co., William. (See Schollhorn, William, assignor.)						
Schollhorn, William, New Haven, Conn. Corkscrew	350,702	Oct. 12	851	229	37	162
Schollhorn, William, assignor to W. Schollhorn & Co., New Haven, Conn. Coach-latch	346,318	July 27	2165	556	36	414
Scholz, Charles, Chicago, Ill. Grip for cable railways	353,713	Dec. 7	10	24	37	1022
Schönberg, James, assignor of one-half to E. W. Hunt, New York, N. Y. Hatchway covering or door	351,467	Oct. 26	1976	514	37	379
Schönheyder, William A. G., Shepherd's Bush, county of Middlesex, England. Fluid-pressure engine	340,369	Apr. 20	1831	469 / 470	35	341
School Furnishing Company. (See Conner, William P., assignor.)						
Schooley, Wilson D., Richmond, Ind. Machine for constructing fences	338,882	Mar. 30	2738	721	34	1445
Schopf, Eli. (See Toliver, Poundstone, and Schopf.)						
Schopp, Joseph B. (See Pike and Schopp.)						
Schorestène, Jacques, New York, N. Y. Hat-sweat	343,924	June 15	1648	422	35	1322
Schott, Arnold. (See Schreiner, Friedrich, assignor.)						
Schott Button Hole Attachment Company. (See Schott, William, assignor.)						
Schott Button Hole Attachment Company, of New York. (See Schott, William, assignor.)						
Schott, William, assignor to Schott Button Hole Attachment Company, New York, N. Y. Button-hole attachment for sewing-machines	336,165	Feb. 16	1545	407 / 408	34	728
Schott, William, New York, N. Y., assignor to Schott Button Hole Attachment Company of New York. Button-hole attachment for sewing-machines	348,640	Sept. 7	146	41	36	1074
Schott, William, New York, N. Y., assignor to Schott Button Hole Attachment Company, of New York. Button-hole attachment for sewing-machines	351,802	Nov. 2	101	28, 29	37	477
Schrader, Henry C., Wheeling, W. Va. Mold for hollow glassware	344,500	June 29	2464	633	35	1482
Schrader, Theodor O. L., New York, N. Y. Pencil	350,948	Oct. 19	1194	318	37	232
Schrader, Theodore O. L., New York, N. Y. Combined letter-sheet and envelope	346,620	Aug. 3	217	59	36	502
Schram, Jacob and L., Chicago, Ill. Moiding	352,360	Nov. 9	913	245	37	635
Schram, Louis. (See Schram, Jacob and L.)						
Schrand, Matthew, Cincinnati, Ohio. Gig-saddle	342,848	June 1	101	26	35	1025
Schraube, Conrad, Ludwigshafen-on-the-Rhine, Bavaria, assignor to Badische Anilin and Soda Fabrik, Mannheim, Germany. Production of acetine-blue colors	352,361	Nov. 9	914	.....	37	635
Schreiber, Josef, Vienna, Austria-Hungary. Flasher	337,524	Mar. 9	889	227	34	1092
Schreiber & Sons Company, L. (See Schreiber, William A., assignor.)						
Schreiber, William A., assignor to L. Schreiber & Sons Company, Cincinnati, Ohio. Illuminating tile-plate	340,370	Apr. 20	1833	470	35	341
Schreiner, Friedrich, assignor to himself and A. Schott, Philadelphia, Pa. Type-case for stereotype-matrix-making machines	336,753	Feb. 23	2376	622	34	884
Schreiner, Friedrich, assignor to himself and A. Schott, Philadelphia, Pa. Machine for making stereotype-matrix impressions	336,754	Feb. 23	2376	622	34	884
Schreuder, Jens. (See Spicer and Schreuder.)						
Schröder, Adolph, Rendsburg, Prussia, Germany. Truss	339,333	Apr. 6	317	79	35	60
Schroder, Henry W., Springfield, Ohio. Book-support	346,417	July 27	2302	593	36	440
Schroder, John, assignor of one-half to W. C. Murry, Tama City, Iowa. Hose-coupling	348,059	Aug. 24	2254	603	36	905
Schroeder, C. M. Edward. (See Chichester, Lewis S., assignor.)						
Schroeder, George G., assignor of one-half to J. B. Daughton, Washington, D. C. Horse shoe	334,200	Jan. 12	1006	267 / 268	34	195
Schubert, Carl, Alma, Kans. Pump	348,060	Aug. 24	2255	603	36	905
Schubert, George, and F. Thies, St. Louis, Mo. Hinge	353,007	Nov. 23	1775	477	37	814
Schuberth, William T., Chicago, Ill. Soap-press	339,936	Apr. 13	1202	299	35	221
Schuchardt, Emil, New York, assignor of one-half to C. A. Tucker, Islip, N. Y. Method of and appliance for relieving trucks	350,323	Oct. 5	297	85	37	60

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg	Official Gazette. Vol.	Official Gazette. Page.
Schueble, Jacob, San Antonio, Tex. Ice-machine	342,543	May 25	2199	522	35	937
Schuermann, Ludwig, Decatur, Ill. Shutter-worker	347,202	Aug 10	1003	267	36	658
Schuett, Fred. J. J., Buena Vista, Mich. Track cleaner or divider for mowing-machines	343,925	June 15	1649	422	35	1322
Schuetz, Max, New York, N. Y. Vent-plug	355,033	Dec. 28	2002	527	37	1399
Schuhle, Jacob, San Antonio, Tex. Refrigerating-machine	337,874	Mar. 16	1333	346	34	1178
Schuhmann, George, Reading, Pa. Valve for engines	334,089	Jan. 12	825	226	34	161
Schulenburg, August W., St Louis, Mo. Fire-proof portable corrugated-iron warehouse	346,071	July 20	1815	469	36	339
Schuler, John A., Millville, Ohio. Hub for wheels	342,641	May 25	2338	617	35	963
Schülke, Ludwig. (See Schmidt, Eduard, assignor.)						
Schultz, Frederick W., Baltimore, Md. Soldering-iron	346,319	July 27	2165	556	36	414
Schultz, Louis, New York, N. Y. Quilting-machine	351,468	Oct. 26	1978	515	37	379
Schultz, Warner S., Minneapolis, Minn. Station-indicator	341,949	May 18	1343	359	35	774
Schulz, William, San Francisco, Cal. Newspaper-file	350,507	Oct. 12	575	159	37	112
Schulze, Johann H., Berlin, Germany. Velocipede	342,934	June 1	237	58	35	1047
Schulze, Theodor, Guben, Prussia, assignor of one-half to S. Görnicki, Berlin, Germany. Wind-wheel	355,034	Dec. 28	2003	527	37	1399
Schulze, William, *et al.* (See Connett, Matthew F., Jr., assignor.)						
Schulze-Berge, Hermann. (See Garland and Schulze-Berge.)						
Schulze-Berge, Hermann, Rochester, Pa. Overseaming-machine	344,872	July 6	110	27	36	20
Schumacher, Ferdinand. (See Wemple, Andrew, assignor.)						
Schumacher, Jacob, Camden, N. J. Perforating-machine	339,937	Apr. 13	1292	299, 300	35	221
Schumacher, Jacob, Camden, N. J. Pattern-sheet	353,508	Nov. 30	2501	667	37	958
Schumacher, Joseph G., assignor to himself and C. W. Wall, Buffalo, N. Y. Steam-engine slide	334,811	Jan. 26	1852	493	34	365
Schuman, Edward J., Natchitoches, La. Pulverizer	353,973	Dec. 7	472	128	37	1093
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Manufacture of starch	334,090	Jan. 12	827	226, 227	34	161
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Manufacture of starch	341,282	May 4	432	118	35	585
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Manufacture of starch	341,283	May 4	434	118	35	585
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Treating starch and other substances	344,410	June 29	2337	601	35	1460
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Manufacture of starch	344,411	June 29	2339	602	35	1461
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Manufacture of starch	344,412	June 29	2340	602	35	1461
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Preparing starch from grain	345,926	July 20	1615	416	36	303
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Preparing starch from grain	345,927	July 20	1617	416	36	303
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Disintegrator for the reduction of grain in the manufacture of starch, &c	346,320	July 27	2166	556	36	414
Schumann, Francis, assignor of one-half to W. D. Haven, Trenton, N. J. Steam-valve	339,814	Apr. 13	1037	257	35	190
Schumann, Francis, assignor of one-half to W. D. Haven, Trenton, N. J. Cut-off valve	350,324	Oct. 5	299	85, 86	37	61
Schumann, Otto F., Brooklyn, N. Y. Curtain pole and fixture	344,461	June 29	2398	618	35	1471
Schupp, Fred. J., Marshall, Mo. Car-coupling	348,061	Aug. 24	2276	603	36	906
Schurch, Albert, assignor of one-half to S. Stemmer, San Francisco, Cal. Clasp	333,679	Jan. 5	241	66	34	47
Schureman, Howard B., Newark, N. J. Horseshoe	338,789	Mar. 30	2611	688	34	1422
Schüssler, John P., Jr., and W. Fredericks, New York, N. Y. Suspension-clasp for poultry, game, &c	337,019	Mar. 2	193	51	34	960
Schutt, Duny A., Hulton, Pa. Vehicle-spring	346,952	Aug. 10	648	173	36	593
Schutte, Louis, Philadelphia, Pa. Steam-ejector	337,443	Mar. 9	787	200	34	1075
Schutte, Louis, Philadelphia, Pa. Automatic stop-valve	344,501	June 29	2465	633	35	1482
Schutte, Louis, Philadelphia, Pa. Jet-condenser	344,502	June 29	2467	634	35	1483
Schuttler & Hotz. (See Conrad, Martin, assignor.)						
Schutz, Adolph C. (See Borgfeldt and Schutz.)						
Schutz, Adolph C., *et al.* (See Borgfeldt, Nicholas H., assignor.)						
Schutz, Joseph M., Minneapolis, Minn. Belt-gearing for roller-mills	337,444	Mar. 9	788	201	34	1075
Schuyler Electric Light Company. (See Lemp and Wightman, assignors.)						
Schuyler Electric Light Company. (See Pfankuche, Gustav, assignor.)						
Schuyler Electric Light Company. (See Wightman, Merle J., assignor.)						
Schuyler Electric Light Company. (See Wightman and Lemp, assignors.)						
Schuyler Electric Light Company of New York. (See Mott, Samuel D., assignor.)						
Schuyler Electric Light Company of New York. (See Tregoning, John, assignor.)						
Schuyler Electric Light Company of New York. (See Waterhouse, Addison G., assignor.)						
Schuyler Electric Light Company of New York. (See Wightman, Merle J., assignor.)						
Schuyler, William D., New York, N. Y. Drain-pipe connection for wash-bowls, water-closets, &c	337,445	Mar. 9	789	201	34	1075
Schuyler, William D., New York, N. Y. Water-closet	339,480	Apr. 6	530	129	35	98
Schwab, Charles M. (See James and Schwab.)						
Schwab, Samuel, Windsor, Mo. Machine for fastening buttons	344,600	June 29	2594	672, 673	35	1508
Schwab, William, and A. Hess, New York, N. Y. Fringe-reel	346,321	July 27	2168	556	36	415
Schwaller, Joseph C., Halbur, Iowa. Wheel-cultivator	355,106	Dec. 28	2110	554, 555	37	1420
Schwanhausser, Frederick, Jersey City, N. J. Frame for making shade-cloth	351,206	Oct. 19	1577	414	37	302
Schwartz, Moses, *et al.* (See Stützel and Weinedel, assignors.)						
Schwarzer, Franz, Washington, Mo. String-holder for musical instruments	351,406	Oct. 26	1888	492	37	362
Schwärzler, Martin, San Francisco, Cal. Feed mechanism for drills	343,734	June 15	1418	353	35	1277
Schweinfurt, Augustus, Philadelphia, Pa. Spring-hinge	351,469	Oct. 26	1983	515	37	380
Schweizer, Ferdinand, Paterson, N. J. Stretching device for clothes-lines	337,020	Mar. 2	193	51	34	960
Schweizer, Sharles. (See Underwood and Schweizer.)						
Schwendeman, Fred I., Boston, Mass. Shoe	339,481	Apr. 6	532	129	35	99
Schwengers, Franz, Uerdingen, Prussia, Germany. Manufacture of sugar	345,810	July 20	1457	.....	36	274
Schwesinger, Henry, Detroit, Mich. Reed-organ	351,803	Nov. 2	105	29	37	477
Schwill, Ferdinand A., Cincinnati, Ohio. Freezing-mixture	343,860	June 15	1571	.....	35	1306
Schwingen, William, assignor of one-half to B. M. Graves, Farmer Village, N. Y. Grain harvesting and binding machine	349,957	Sept. 28	1950	504	36	1435
Scofield Brothers. (See Scofield, Henry L., assignor.)						
Scofield, Edward. (See Slocum, John C., assignor.)						
Scofield, George H. (See Staiger and Scofield.)						
Scofield, Henry L., assignor to Scofield Brothers, Rochester, N. Y. Last	352,893	Nov. 16	1609	433	37	775
Scola, Jean P. A., Paris, France. Electric fuse for blasting	347,013	Aug. 10	736	195	36	608
Scollay, George W., New York, N. Y. Treating ores	333,785	Jan. 5	396	.....	34	75
Scollay, John P., Lawrence, Mass. Buckle-cover	355,107	Dec. 28	2112	555	37	1420
Scotchmer, Henry E., and J. Young, Chicago, Ill. Regenerative gas-lamp	343,142	June 1	531	135	35	1103

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Scotford, Louis K., Kansas City, Mo., assignor to Scotford Manufacturing Company, Chicago, Ill. Self-inking hand-stamp	346,690	Aug. 3	301	82	36	520
Scotford Manufacturing Company. (See Scotford, Louis K., assignor.)						
Scotland, James, and F. Cordon, St. Pierre, near Miquelon. Fishing-hook and device for capturing fish	336,953	Mar. 2	96	26	34	943
Scott, Amelia F. (See Matherson, Peter C., assignor.)						
Scott, Amelia F. (See Oliver, A. Atwood, assignor.)						
Scott, Charles S., Cadiz, Ohio. Clutch	337,021	Mar. 2	194	51	34	961
Scott, D. Bryce, Brooklyn, N. Y., assignor to Western Union Telegraph Company of New York. Printing-telegraph	350,469	Oct. 5	521	144, 145	37	98
Scott, Earl M., South Hadley Falls, Mass. Rag-cleaning machine	342,392	May 25	1983	523	35	898
Scott, Eliza E., Hamilton, Ontario, Canada. Druggist's sieve	351,207	Oct. 19	1578	414	37	302
Scott, Erastus W., Danielsonville, Conn. Whip-socket	346,953	Aug. 10	649	174	36	593
Scott, Ernest. (See Ashton, William, assignor.)						
Scott, Frederick F., Hillisburg, Ind. Railway-tie	339,938	Apr. 13	1203	300	35	221
Scott, George H., Worcester, Mass. Apparatus for heating wire	339,219	Apr. 6	145	38, 39	35	28
Scott, George H., Worcester, Mass. Machine for making spiral springs	346,322	July 27	2168	557	36	415
Scott, George W., and C. Leidigh, assignors to Scott, Leidigh & Todd, Troy, Ohio. Top-support for vehicles	342,046	May 18	1472	394	35	797
Scott, James, Denver, Colo. Apparatus for flushing sewers	344,873	July 6	112	28	36	20
Scott, James, Jr., Menomine, Wis. Link	340,158	Apr. 20	1512	382	35	283
Scott, John D., Petaluma, Cal. Agricultural implement	337,525	Mar. 9	891	227	34	1092
Scott, John F., an O. W. Chesnut, Templeton, Ind. Check-row corn-planter	354,354	Dec. 14	1039	278	37	1203
Scott, John O., Waupaca, assignor of two-thirds to M. F. and J. G. Patterson, Milwaukee, Wis. Dental engine	334,985	Jan. 26	2070	552, 553	34	404
Scott, Lauren S., Bristol, Vt. Lathing	340,253	Apr. 20	1666	423	35	309
Scott, Leidigh & Todd. (See Scott and Leidigh, assignors.)						
Scott Manufacturing Company of Baltimore City. (See Condon, John W., assignor.)						
Scott Manufacturing Company of Baltimore City. (See Winebrenner, Henry C., assignor.)						
Scott, Margaret L. (See Scott, Thomas, assignor.)						
Scott, Orlando S., Newton, Ill. Cashier's shield	341,775	May 11	1111	294	35	723
Scott, Robert P., Baltimore, Md. Velocipede	340,254	Apr. 20	1667	423	35	310
Scott, S. P., *et al.* (See Lytle, Andrew J., assignor.)						
Scott, Samuel C., Brooklyn, N. Y. Cuff or collar button	341,510	May 11	745	201	35	651
Scott, Stephen G., Plainwell, Mich. Tie-truss for railways	347,129	Aug. 10	900	240	36	639
Scott, Stewart. (See Richarz and Scott.)						
Scott, Thomas, assignor to M. L. Scott, St. Paul, Minn. Sleigh attachment for vehicles	343,610	June 15	1230	309	35	1244
Scott, Thomas, assignor to M. L. Scott, St. Paul, Minn. Sleigh attachment for vehicles	346,323	July 27	2171	557	36	415
Scott, Thomas, and L. Bovard, Kansas City, Mo. Refrigerating-trough	337,446	Mar. 9	791	202	34	1075
Scott, Uriah B. (See Trulling-r and Scott.)						
Scott, Walter, Plainfield, N. J. Sheet-gage for printing-machines	335,634	Feb. 9	768	204	34	585
Scott, Walter, Plainfield, N. J. Inking apparatus for printing-machines	338,366	Mar. 23	2011	529	34	1311
Scott, Walter, Plainfield, N. J. Mechanism for folding and delivering printed sheets	351,470	Oct. 26	1984	516	37	380
Scott, Walter, Plainfield, N. J. Sheet-delivery apparatus for printing-machines	351,471	Oct. 26	1986	516	37	381
Scott, William, Evansville, Ind. Washing-machine	351,072	Oct. 19	1394	366	37	267
Scott, William, assignor to R. Stephens, Detroit, Mich. Gate-valve	340,371	Apr. 20	1833	470	35	341
Scott, William, assignor to R. Stephens, Detroit, Mich. Straight-way valve	342,542	May 25	2198	582	35	937
Scott, Winfield R., assignor of one-half to J. M. Hackney, Danville, Ky. Rain-water cut-off and filter	347,203	Aug. 10	1003	267	36	658
Scottron, Samuel R., Brooklyn, N. Y. Pole-tip	349,525	Sept. 21	1357	353	36	1315
Scovel, Minor, Pittsburg, Pa. Hot-blast stove	351,804	Nov. 2	107	29, 30	37	478
Scovel, Purley A., Terrell, Tex. Boot-cleaner	342,642	May 25	2338	618	35	963
Scovil, Samuel J., Jamaica, N. Y. Buckle	348,351	Aug. 31	2661	717	36	989
Scovil, Samuel J., Jamaica, N. Y. Buckle	348,352	Aug. 31	2662	717	36	989
Scovill, George W., assignor of one-half to J. Johnston, Chicago, Ill. Nose-bag	336,597	Feb. 23	2159	565	34	844
Scovill, Joseph B. (See Burch and Scovill.)						
Scovill Manufacturing Company. (See Adams, W. Irving, assignor.)						
Scovill Manufacturing Company. (See Hyde, Theophilus E., Jr., assignor.)						
Scovill Manufacturing Company. (See Price, H. Clay, assignor.)						
Scovill Manufacturing Company. (See Shipley, Alfred J., assignor.)						
Scovill Manufacturing Company. (See Spruce, James, assignor.)						
Scoville, Delavan C., *et al.* (See Powers, Titus, assignor.)						
Scoville, Elijah U., Manlius, N. Y. Faucet	347,131	Aug. 10	904	241	36	639
Scoville, Elijah U., and C. Owen, Manlius, N. Y. Machine for grinding-valves on their seats	347,130	Aug. 10	901	240, 241	36	639
Scoville, Hiram H., Chicago, Ill. Stitler	349,458	Sept. 21	1265	328	36	1295
Scoville, Horace B., Austinburg, Ohio. Dish-washing machine	337,875	Mar. 16	1334	346	34	1179
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone-exchange switch	345,325	July 13	732	185	36	138
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Test-plug for multiple switch-boards	345,326	July 13	732	185	36	138
Scribner, Philip W., *et al.* (See Gould, Claude C., assignor.)						
Scripture, Frank, assignor, by mesne assignments, to himself and J. S. Rogers, Rockport, Mass. Dumping-scow	335,316	Feb. 2	322	84	34	499
Scull, Paul, *et al.* (See Belisle, Robert S., assignor.)						
Scully, Benjamin B., Lynn, Mass. Necktie-supporter	333,553	Jan. 5	73	21	34	16
Scully, Benjamin B., Lynn, Mass. Necktie attachment	354,249	Dec. 14	884	233, 234	37	1174
Scully, John, South Amboy, N. J. Dumping-car	347,523	Aug. 17	1465	389	36	751
Scutt & Co., H. B. (See Stubbe, John, assignor.)						
Sea Island Chemical Company. (See Bacon, Earle C., assignor.)						
Sea, Robert S., Salvisa, Ky. Metallic cross-tie for railways	354,250	Dec. 14	885	234	37	1174
Seaboldt, Bert, assignor of three-fourths to G. Goss, S. H. Gilson, and A. L. Horner, Salt Lake City, Utah Ter. Electric-wire insulator	340,734	Apr. 27	2346	618	35	438
Seabury, Charles E., Stony Brook, N. Y. Car-coupling	353,826	Dec. 7	244	65	37	1051
Seabury, Frederick W., Providence, R. I. Dental vulcanizer	343,495	June 8	1071	267	35	1208
Seabury, Robert J., New York, N. Y. Office-indicator	342,393	May 25	1983	524	35	898
Seagrave, Frederic S., Bay City, Mich. Ladder	347,648	Aug. 17	1665	442	36	789
Seaman, Alfred S. (See Stoffiet, Jacob F., assignor.)						
Seaman, Daniel M., Woodhaven, N. Y. Snap-hook	341,608	May 11	882	235	35	677
Seaman, Joseph, South Lyme, Ill. Apparatus for manufacturing fertilizers	344,139	June 22	1959	500	35	1384
Seamans, C. W., *et al.* (See Hall, Alvin O., assignor.)						
Seargeant, William F., Marshall, Mo. Combined square, miter, and circle-scriber	338,444	Mar. 23	2121	555	34	1330
Seargeant, William F., Marshall, Mo. Weather-boarding attachment for try-squares	349,905	Sept. 28	1879	485	36	1422
Searle, Henry, Washington, D. C. Making a reversed profile pattern of the human face	339,334	Apr. 6	318	80	35	60

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Searle, John Q. C., Chicago, Ill. Car and house warmer	340,825	Apr. 27	2463	648	35	460
Searles, Albert R., New York, N. Y. Shipping-package	351,208	Oct. 19	1579	415	37	303
Searles, Charles E., Stamford, assignor to himself and J. E. Bacon, Coscob, Conn. Horse-shoe	353,165	Nov. 23	2010	538	37	859
Searley, Charles R., Baltimore, Md. Overalls	346,691	Aug. 3	302	83	36	520
Searls, Anson, assignor to Searls Manufacturing Company, Newark, N. J. Whip-socket fastener	335,150	Feb. 2	70	19	34	453
Searls Manufacturing Company. (See Searls, Anson, assignor.)						
Sears, Frank A., *et al.* (See Cooper and Kohl, assignors.)						
Sears, Frank M., assignor of one-half to G. W. Haight, Jr., and A. Yerrick, East Saginaw, Mich. Lady's cuff-supporter	353,166	Nov. 23	2011	539	37	860
Sears, Henry C., Boston, Mass. Two-wheeled vehicle	335,248	Feb. 2	229	60, 61	34	481
Sears, James N., Galloway Station, Ark. Attachment for shingle-machines for edging shingles	335,635	Feb. 9	769	204	34	585
Sears, John W., Taunton, Mass. Automatic device for feeding animals	346,504	Aug. 3	69	18	36	473
Sears, John W., Taunton, Mass. Automatic device for feeding stock	346,505	Aug. 3	71	18, 19	36	473
Sears, Robert M., San Francisco, Cal. Horse-collar	346,226	July 27	2028	522	36	389
Sears, Ruben E. (See McKinney, George W., assignor.)						
Sears, Thomas H. (See Cochlan and Sears.)						
Sears, Willard T., Boston, Mass. Heater for cars, rooms, &c	340,826	Apr. 27	2465	648	35	461
Sears, William G., Chattanooga, Tenn. Making toothed cylinders	353,465	Nov. 30	2438	650	37	947
Sears, William G., Chattanooga, Tenn. Cotton-harvester	353,466	Nov. 30	2438	651, 652	37	947
Sears, William G., Chattanooga, Tenn. Exhaust-fan	353,467	Nov. 30	2442	652	37	948
Sears, William G., assignor of one-half to H. S. Chamberlain, Chattanooga, Tenn. Cotton-harvester	339,482	Apr. 6	533	129	35	99
Sears, William G., assignor of one-half to H. S. Chamberlain, Chattanooga, Tenn. Cotton-picker stem	353,085	Nov. 23	1887	509	37	835
Sears, William G., assignor of one-half to H. S. Chamberlain, Chattanooga, Tenn. Cotton-picker stem	353,167	Nov. 23	2012	539	37	860
Seaton, John. (See Kuhlman, David D., assignor.)						
Seatter, John S., Visalia, Cal. Combined rake and hoe	354,355	Dec. 14	1041	278	37	1204
Seaver, Augustus, Boston, Mass. Attaching outer soles to boots or shoes	342,711	May 25	2441	648	35	982
Seavey, John L., and J. N. Goodall, Greenland, N. H. Elevator cup or bucket	347,963	Aug. 24	2123	566	36	880
Seavey, Lafayette W., New York, N. Y. Theatrical scenery	349,526	Sept. 21	1358	353	36	1315
Seawell, Molly E. (See Jennings, Arthur O., assignor.)						
Sebring, Marcena O., *et al.* (See Kellogg, William H., assignor.)						
Sechler, Daniel M., Cincinnati, Ohio. Vehicle-spring	339,019	Mar. 30	2947	780	34	1482
Secor, Jerome B., Bridgeport, Conn., assignor to P. Van Volkenburgh, Jr., E. S. Rapallo, and D. J. Newland, New York, N. Y. Automatic ship's berth	343,072	June 1	419	107, 108	35	1082
Secord, Herbert C. (See Rodwell, George J. B., assignor.)						
Sedgwick, Alonzo, and J. Naylor, Jr., Poughkeepsie, assignors, by mesne assignments, to D. H. Burrell, Little Falls, N. Y. Paper-feeding machine	336,070	Feb. 9	1380	366, 367	34	694
Sedgwick, Alonzo, and J. Naylor, Jr., Poughkeepsie, assignors, by mesne assignments, to D. H. Burrell, Little Falls, N. Y. Paper-feeder	336,071	Feb. 9	1387	367, 368	34	695
Sedgwick, Frederick, Chicago, Ill. Electro-magnetic time-lock	347,069	Aug. 10	825	219, 220	36	625
Sedgwick, Frederick, Chicago, Ill. Electric lock and bolt-moving mechanism	347,070	Aug. 10	828	220	36	625
Sedgwick, Frederick, Chicago, Ill. Electric safe-lock and bolt-moving mechanism	347,071	Aug. 10	829	220, 221	36	626
Sedgwick, Frederick, Cincinnati, Ohio, assignor to J. H. Purdy, Chicago, Ill. Electro-magnetic permutation-lock	347,068	Aug. 10	819	218, 219	36	624
See, James W. (See Cullen and See.)						
See, James W., Hamilton, Ohio. Telephonic apparatus	350,160	Oct. 5	87	25	37	19
See, Joseph B. (See Moore, John R., assignor.)						
Seebass, Oscar. (See Haenichen, Friedrich and O., assignors.) (Reissue.)						
Seed, Joseph H., Brooklyn, N. Y. Hasp-lock	352,206	Nov. 9	714	191	37	597
Seefels, Otto, London, England. Bag or portmanteau	343,073	June 1	422	108	35	1083
Seegers, Edward W. (See Perkins, Duane P., assignor.)						
Seeger, Jakob, Vienna, Austria-Hungary, assignor of one-half to A. Bachmeyer & Co., Berlin, Germany. Lubricating-oil	339,483	Apr. 6	534	.....	35	99
Seegmueller, Charles, assignor of one-half to E. A. Smith, Hamilton, Ohio. Holder for coin and other disks	346,564	Aug. 3	144	39	36	488
Seegmueller, Charles A., Hamilton, Ohio. Vegetable-cutter	358,306	Mar. 23	1923	506	34	1296
Seel, Carl, Barmen, Prussia, Germany. Trimming	350,774	Oct. 12	947	254	37	180
Seeley, Isaac B., Philadelphia, Pa. Sleigh-shoe	341,601	June 29	2597	673	35	1509
Seeley, Marquis F., Fremont, Nebr. Grain-elevator	336,755	Feb. 23	2378	623	34	884
Seeley, Marquis F., Fremont, Nebr. Device for trimming grain	344,602	June 29	2598	673	35	1509
Seeley, Marquis F., Fremont, Nebr. Hopper	352,008	Nov. 2	405	110	37	534
Seeley, Stephen, Boston, Mass., and W. E. Langley, Burlington, Vt. Coal, ash, or gravel sifter	344,603	June 29	2600	674	35	1509
Seely, Jared T. (See Ludlow and Carlough, assignors.)						
Seely Manufacturing Company. (See Godfrey, Thomas F., assignor.)						
Seely, Obadiah, assignor to E. C. Stearns & Co., Syracuse, N. Y. Saw-vise	339,020	Mar. 30	2948	780	34	1482
Seely, Obadiah, assignor to E. C. Stearns & Co., Syracuse, N. Y. Jack-screw	352,362	Nov. 9	915	245	37	635
Seely, Samuel F., assignor of one-half to Brigham, Lanson & Co., Toledo, Ohio. Folding canvas cot and stretcher	334,986	Jan. 26	2071	553	34	404
Seely, William, Port Hope, Mich. Drill-shaft grapple	339,021	Mar. 30	2950	780	34	1483
Seelye, George H., *et al.* (See Brownell, Stephen C., assignor.)						
Seelye, Seymour K., Hudson, Mich. Stretcher for endless conveyers	346,868	Aug. 3	523	142	36	562
Seery, Thomas F., Boston, Mass. Fountain or hydraulic brush	352,009	Nov. 2	406	110	37	534
Seessle, Charles, New York, N. Y. Register for grain-weighing machines, &c	339,939	Apr. 13	1204	300	35	221
Seevers, Thomas, Oskaloosa, Iowa. Boiler	340,827	Apr. 27	2465	648	35	461
Segal, Adolph, Camden, N. J., assignor of one-half to C. B. Wilkinson, Philadelphia, Pa. Machine for waterproofing or sizing paper	343,861	June 15	1571	398, 399	35	1306
Seger, Henry, assignor of one-half to F. Wessel, New York, N. Y. Composing-stick	339,076	Mar. 30	3020	798	34	1494
Seger, Robert W., Milwaukee, Wis. Pulverizer for drugs, &c	334,292	Jan. 12	1143	306	34	220
Seguin, Norcom L. (See Haas, Samuel H., assignor.)						
Segur, Daniel, Toledo, Ohio. Register for elevators, &c	336,756	Feb. 23	2381	623	34	885
Seib, George D., Richmond Hill, Long Island, N. Y. Paper box	341,859	May 11	1220	327	35	744
Seiberling, J. F., *et al.* (See Baker and Huyck, assignors.)						
Seiberling, John. (See Laraway, George W., assignor.)						
Seiberling, John F., Akron, Ohio. Grain-binding harvester	335,722	Feb. 9	892	235, 236, 237	34	607

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Seiberling, John F., Akron, Ohio. Grain-binding harvester	348,353	Aug. 31	2663	717, 718	36	990
Seiberling, John F., Akron, Ohio. Grain-binder	354,251	Dec. 14	886	234, 235	37	1175
Seibert, Joseph, St. Louis, Mo. Steady-rest for lathes	346,324	July 27	2172	557	36	416
Seibert, Nicholas, Boston, Mass. Oil-feeder for feeding oil to valves	341,352	May 4	531	146, 147	35	601
Seibert, Thomas B., assignor of one-half to U. G. Glidewell, Wayne, Ind. Tongue-support	339,335	Apr. 6	318	80	35	60
Seibold, Otto F., Brooklyn, N. Y. Target	334,293	Jan. 12	1144	306	34	221
Seidel, Charles F. W., assignor of one-third to C. Beck, New York, N. Y. Apparatus for sweeping streets and removing dirt therefrom	349,816	Sept. 28	1767	457	36	1399
Seidel, Henry F., New York, N. Y. Chimney cowl	337,022	Mar. 2	195	51	34	961
Seidel, Morris, Harrison Ark. Egg-case	354,659	Dec. 21	1482	394	37	1289
Seidl, Karl. (See Lerch and Seidl.)						
Seidschec, Joseph J., Chicago, Ill. Revolving gas-fixture	354,252	Dec. 14	888	235	37	1175
Seielstad, Gilbert J. (See Jungbauer and Seielstad.)						
Seifert, Katharina, Cincinnati, Ohio. Machine for degranulating cheese-curd	346,227	July 27	2029	523	36	390
Seifert, Moritz, Dresden, Saxony, Germany. Corset-fastening	355,220	Dec. 28	2272	598	37	1453
Seifert, Richard. (See Nencki and Seifert.)						
Seigh, John W., Johnstown, Pa. Hoisting apparatus	352,631	Nov. 16	1262	340	37	708
Seiler, Paul, San Francisco, Cal. Telephone	351,200	Oct. 19	1580	415	37	303
Seiler, Philipp, assignor of one-half to J. Kohlsaat, Chicago, Ill. Sash-lock	348,690	Sept. 7	229	60	36	1089
Seilern, Count Hugh, Munich, Germany. Apparatus for ruling and designing	350,101	Oct. 5	88	25	37	19
Seipelt, Friedrich, New York, N. Y. Album-stand	353,763	Dec. 7	153	43	37	1035
Seiser, George F., Worthville, Ky. Permutation-padlock	346,954	Aug. 10	650	174	36	593
Seitz, Julius A., Brooklyn, N. Y. Stop for power-presses	352,575	Nov. 16	1180	319	37	694
Seitz, Rudolph. (See Klán and Seitz.)						
Seiwert, Johann J., Detroit, Mich. Beer-pump	338,560	Mar. 23	2272	595	34	1357
Selah, Clarence, Ewing, Nebr. Writing-tablet	346,228	July 27	2030	523	36	390
Selby, Edward H. (See Depp and Selby.)						
Selchow, Elisha G. (See Seliger, Alfred E., assignor.)						
Selden, George, Erie, Pa. Steam-boiler furnace	353,595	Nov. 30	2633	703	37	984
Self, William R., Newton, N. C. Steam-vehicle	345,327	July 13	734	185	36	139
Seliger, Alfred E., assignor to E. G. Selchow, New York, N. Y. Game-board	343,496	June 8	1072	268	35	1208
Seligman, Barah, New York, N. Y. Stay for garments	347,833	Aug. 24	1928	512	36	846
Seligman, Henry, Irvington-on-Hudson, N. Y. Conductor for mechanical telephones	342,468	May 25	2090	552	35	918
Sellars, James K., Eagle Lake, Tex. Ventilator	340,624	Apr. 27	2186	575	35	411
Selle, Ferdinand, Akron, Ohio. Wagon-reach	346,325	July 27	2173	557, 558	36	416
Sellers & Company, William. (See Bancroft and Lewis, assignors.)						
Sellers & Company, William. (See Lewis, Wilfred, assignor.)						
Sellers, Elias H., Detroit, Mich. Mowing-machine knife	354,747	Dec. 21	1612	426	37	1314
Sellers, Morris, Chicago, Ill. Railway splice-bar	339,940	Apr. 13	1205	300	35	221
Sellers, William. (See Bancroft, J. Sellers, assignor.)						
Sellers, William, Haverhill, Mass. Steam-generator	342,544	May 25	2201	583	35	937
Sellew, Ralph H. *et al.* (See Carruthers, William H., assignor.)						
Sellman, Henry G., South Lyons, Mich. Wrench	342,643	May 25	2339	618	35	963
Sellner, Leopold, Vienna, Austria-Hungary. Signaling apparatus	337,626	Mar. 9	1011	259, 260	34	1115
Sellon, John S., Hatton Garden, county of Middlesex, England. Solder for aluminum	333,786	Jan. 5	398	.....	34	75
Seltzer, Abram E., Lebanon, Pa. Folding square	342,849	June 1	102	26	35	1025
Semper, Conrad, Philadelphia, Pa. Making porous alum	345,604	July 13	1146	.....	36	212
Semper, Conrad, Philadelphia, Pa. Making porous alum	345,605	July 13	1147	.....	36	212
Semper, Conrad, assignor to Harrison Brothers & Co., Philadelphia, Pa. Manufacture of sizing compounds for paper-makers' use	333,680	Jan. 5	242	.....	34	47
Semper, Conrad, assignor to Harrison Brothers & Co., Philadelphia, Pa. Making a sulphate of alumina compound	344,140	June 22	1960	.....	35	1324
Semper, Conrad, assignor to Harrison Brothers & Co., Philadelphia, Pa. Sizing material for paper-makers' use	351,210	Oct. 19	1581	.....	37	303
Semper, Conrad, assignor to Harrison Brothers & Co., Philadelphia, Pa. Sizing material for paper-makers' use	351,211	Oct. 19	1583	.....	37	303
Senftner, Robert, Brooklyn, N. Y. Station-indicator	352,576	Nov. 16	1181	319, 320	37	694
Seng, Wendelin, Chicago, Ill. Drilling-machine	348,422	Aug. 31	2767	743	36	1010
Seng, Wendelin, assignor to A. Heuer and H. Brockschmidt, Chicago, Ill. Table-leaf support	336,757	Feb. 23	2382	623	34	885
Senior, Luke, Cleveland, Ohio. Elevator attachment	334,201	Jan. 12	1008	268	34	195
Senior, Luke, assignor of one-half to O. C. Berchtold, Cleveland, Ohio. Safety attachment for elevators	339,484	Apr. 6	535	130	35	99
Senseman, Jacob, *et al.* (See Van Horn, William, assignor.)						
Sensiba, Fred. W., Talbot, Mich. Gate	337,089	Mar. 2	275	73	34	977
Senteney, James L., Cook's Mills, Ill. Ditching-machine	334,903	Jan. 26	1964	522	34	385
Senteney, John T., Blocksburg, Cal. Shoe-fastening	347,534	Aug. 17	1466	389	36	751
Senteney, John T., Blocksburg, Cal. Plow	352,936	Nov. 23	1674	449	37	796
Sepulchre, Louis, Herstal, Belgium. Lamp	336,964	Feb. 16	1703	444	34	754
Serdinko, John, New Braunfels, Tex. Wind-engine	335,388	Feb. 2	422	108	34	517
Sergeant, Benjamin E., Greensborough, N. C. Feed-work for saw-mills	349,180	Sept. 14	882	226, 227	36	1213
Sergeant, Henry C., New York, N. Y. Steam-actuated valve. (Reissue)	10,682	Feb. 2	649	170	34	557
Sergeant, Henry C., New York, N. Y. Support for rock-drills	337,526	Mar. 9	892	228	34	1092
Sergeant, Henry C., New York, N. Y. Rock-drill	349,409	Sept. 21	1196	310	36	1283
Sergeant, Henry C., New York, N. Y. Direct-acting engine	354,660	Dec. 21	1483	394	37	1290
Sergeson, James C., Philadelphia, Pa. Loom-shuttle	334,616	Jan. 19	1590	424	34	308
Serramodia, Giuseppe, Turin, Italy. Air-forcing apparatus	337,447	Mar. 9	792	202	34	1076
Serrell, Edward W., Jr., New York, N. Y. Silk-reeling machinery	334,617	Jan. 19	1591	424	34	308
Serrell, Edward W., Jr., New York, N. Y. Silk-reeling machinery	334,618	Jan. 19	1593	424, 425	34	308
Serrell, Edward W., Jr., New York, N. Y. Silk-reeling machine	334,619	Jan. 19	1596	425	34	309
Serrell, Edward W., Jr., New York, N. Y. Silk-reeling machine	334,620	Jan. 19	1597	425, 426	34	309
Serrell, Edward W., Jr., New York, N. Y. Silk-reeling machinery	334,621	Jan. 19	1598	426	34	309
Serrell, Lemuel W., Plainfield, N. J. Combustion of fluid fuel for the development of steam	338,883	Mar. 30	2740	721, 722	34	1446
Serson, James, assignor of one-half to W. Walsh, Boston, Mass. Galvanic battery	338,194	Mar. 16	1775	463	34	1262

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Serve, Jean P., Givors, France. Boiler-tube	349,060	Sept. 14	722	184	36	1183
Service, Francis, Ebbu Vale, county of Monmouth, England. Hoisting apparatus	351,805	Nov. 2	108	30	37	478
Sessions, Egbert G., Rice, Tex. Car-coupling	338,107	Mar. 16	1564	433	34	1239
Sessions, Egbert G., Rice, Tex. Car-coupling	353,974	Dec. 7	473	129	37	1093
Setterwall, H. F. August. (See Hall, Clemence, and Setterwall.)						
Settle, Miles, Bolton, county of Lancaster, England. Water-cartridge for blast'ng	343,497	June 8	1073	268	35	1208
Setty, John L., North Uniontown, Ohio. Car-coupling	340,735	Apr. 27	2347	618	35	438
Severance, Charles N., Winterport, Me. Sulky-plow device for attaching plows to running-gear	342,469	May 25	2091	533	35	918
Severance, James R., Fremont, Ohio. Grain-binder	345,546	July 13	1068	272, 273	36	197
Severding, John, Richmond, Ind. Rain-water cut-off	351,940	Nov. 2	310	86	37	514
Sewell, John C., E. Hulton, and J. Bethel, Manchester, England. Sectional warping and beaming machine	335,636	Feb. 9	770	204	34	585
Sexton, Daniel. (See Kenworthy, Sexton, and Thompson.)						
Sexton, Deming W., East Hampton, Conn. Sleigh-bell attachment	335,151	Feb. 2	71	19	34	453
Sexton, S. W. (See Atwood, James B., assignor.)						
Seyberlich, Alfred, and A. Trampedach, Riga, Russia. Manufacture of glucose	337,448	Mar. 9	794	.....	34	1076
Seybold, Charles (See Yeiser and Seybold.)						
Seyer, Celestin, West Hoboken, N. J., and E. Richard, New York, N. Y.; said Richard assignor to said Seyer. Machine for grinding glass, &c	342,935	June 1	228	58, 59	35	1047
Seymour, Caleb P., St. Louis, Mo. Apparatus for turning ornamental forms and figures in wood	342,394	May 25	1984	524	35	898
Seymour, Frederick H., *et al.* (See Wade, William, assignor.)						
Seymour, Frederick H., Detroit, Mich. Pipe-wrench attachment for monkey-wrenches	337,627	Mar. 9	1012	260	34	1115
Seymour, Frederick J., Wolcottville, Conn., assignor of one-half to W. H. Brown, New York, N. Y. Obtaining aluminium from aluminous ores and earths	337,996	Mar. 16	1514	392	34	1211
Seymour, Frederick W., Wheeling, W. Va. Stopper-fastener	337,202	Mar. 2	425	111	34	1005
Seymour, Henry A., Washington, D. C. Garment-supporter	337,997	Mar. 16	1516	392	34	1211
Seymour, Henry J., Community, N. Y. Animal-trap	344,994	July 6	285	72	36	52
Seymour, James M., Newark, N. J. Vacuum-well	333,681	Jan. 5	243	66	34	47
Seymour, James M., Jr., Newark, N. J. Water-motor	333,596	Nov. 30	2634	704	37	984
Seymour, Joseph L., New York, N. Y. Preparation of kindling-wood	345,928	July 20	1618	417	36	304
Seymour, William S., assignor to Northwestern Wire Mattress Company, Kenosha, Wis. Fastening bed-bottoms	335,542	Feb. 2	625	164	34	552
Seymour, William S., assignor to Z. G. Simmons, Kenosha, Wis. Frame for woven-wire mattresses	351,073	Oct. 19	1395	366	37	267
Seymour, William S., assignor to Z. G. Simmons, Kenosha, Wis. Folding cot	351,074	Oct. 19	1396	367	37	267
Shackell, Richard G., Portage, Wis. Stove	347,649	Aug. 17	1665	412, 413	36	789
Shackleton, Parker, Cleveland, Ohio. Gutter-beading device	348,423	Aug. 31	2769	743, 744	36	1010
Shade, Zephaniah. (See Heckel and Shade.)						
Shader, Augustus E., Chicago, Ill. Key-fastener	352,957	Nov. 23	1701	457	37	800
Shafer, David L., Pleasant Hill, Ohio. Harness	339,022	Mar. 30	2950	780	34	1483
Shafer, David L., Pleasant Hill, Ohio. Breast-strap coupling	353,470	Nov. 30	2147	653	37	948
Shafer, Otto, and J. Strasin, Chicago, Ill. Car-coupling	348,785	Sept. 7	334	90	36	1110
Shaffer, Abraham, assignor of one-half to F. Goodwin, Cassopolis, Mich. Gang-plow	353,469	Nov. 30	2445	652, 653	37	948
Shaffer, Charles H., Rockford, Ill., assignor to J. B. Young, Sioux Falls, Dak. Ter. Time-lock	333,682	Jan. 5	245	67, 68	34	48
Shaffer, Charles H., assignor of one-half to Jones, Woodruff & Co., Rockford, Ill. Can	336,072	Feb. 9	1391	368	34	696
Shaffer, Henry E., Rochester, N. Y. Fruit-jar	340,625	Apr. 27	2187	576	35	411
Shaffer, Henry E., Rochester, N. Y. Lamp-burner	346,132	Aug. 10	905	241	36	640
Shaffer, Joseph, assignor of one-half to E. F. Cooper, Dayton, Ohio. Harness-saddle pad	351,212	Oct. 19	1584	415	37	303
Shaffer, William C., Chicago, Ill. Fire-alarm transmitter	339,485	Apr. 6	536	130	35	99
Shaler, Clarence A., Fox Lake, Wis. Wheel-plow	351,218	Oct. 19	1591	418	37	304
Shaler, Nathaniel S., Cambridge, assignor to T. A. Dodge, trustee, Brookline, Mass. Magnetic friction device for locomotives	333,554	Jan. 5	74	21	34	16
Shalkop, Samuel B., *et al.* (See Brooke, Isaac, assignor.)						
Shallenberger, Oliver B. (See Stanley and Shallenberger.)						
Shallenberger, Oliver B., Rochester, Pa. Regulator for dynamo-electric machines	337,628	Mar. 9	1013	260, 261	34	1115
Shallenberger, Oliver B., Rochester, Pa. Regulator for electric motors	347,964	Aug. 24	2124	566	36	881
Shamberg, Jacob. (See Kaufman, Joseph, assignor.)						
Shamberger, George A., Mound City, Mo. Snap-hook	347,965	Aug. 24	2127	566	36	881
Shamp, George W., assignor to S. & L. Manufacturing Company, Buffalo, N. Y. Roller-skate	340,957	Apr. 27	2636	694	35	491
Shamp, George W., assignor to Acme Manufacturing Company, Buffalo, N. Y. Paper-folding machine	349,322	Sept. 21	1056	271	36	1256
Shand, Robert, Philadelphia, Pa. Loom-shuttle	339,941	Apr. 13	1207	301	35	221
Shank, Charles A., assignor of nine-tenths to J. T. Ellison, P. H. Charles, J. H. Hudson, and C. G. Henderson, Jr., Philadelphia, Pa. Car starter and brake	352,782	Nov. 16	1459	393	37	747
Shank, John, Las Vegas, N. Mex. Ter. Car-coupling	337,449	Mar. 9	795	202	34	1076
Shank, Martin, and F. G. Green, Chrisman, Ill. Seed-planter	349,527	Sept. 21	1359	353	36	1315
Shank, Orey D. (See Overpeck, Shank, and Cussins.)						
Shanley, Michael H., Granbury, Tex. Ventilator	340,829	Apr. 27	2467	649	35	461
Shannon, Edward W., assignor to Rogers & Hamilton Company, Waterbury, Conn. Die for swaging spoon and fork blanks	349,609	Sept. 21	1466	378	36	1336
Shannon, Henry C., *et al.* (See Drodzewski, Julius R., assignor.)						
Shannon, James S., Chicago, Ill. Paper-tying apparatus	344,995	July 6	286	72	36	52
Shannon, James S., Chicago, Ill. Eyeleting apparatus	344,996	July 6	288	72, 73	36	52
Shannon, James S., Chicago, Ill. Eyeleting machine	344,997	July 6	292	73	36	52
Shannon, Oscar M., Chicago, Ill. Laundry-drier	336,758	Feb. 23	2383	624	34	885
Shannon, William, Beaver Falls, Pa. Bolt-nutting machine	341,174	May 4	285	81	35	557
Shannon, William T., Brooklyn, N. Y. Railway-crossing	346,229	July 27	2030	524	36	390
Shapley, Charles E. (See Barnes and Shapley.)						
Sharer, George W., Terre Haute, Ind. Lumber-drier	347,387	Aug. 17	1279	339, 340	36	716
Sharer, George W., Terre Haute, Ind. Brick-kiln	347,650	Aug. 17	1667	443	36	789
Sharkey, William, Oroville, Cal. Broadcast grain-sowing machine	342,644	May 25	2341	618	35	964
Sharman, Charles H., Allenby Road, Forest Hill, county of Kent, England. Composition for coating vegetable products	351,213	Oct. 19	1585	.....	37	303
Sharp, Benjamin B., San Francisco, Cal. Altitude-instrument	333,555	Jan. 5	75	22	34	17

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sharp, Dennis P., Ithaca, N. Y. Folding ladder	341,284	May 4	437	119	35	585
Sharp, Frank, Oakland, Cal. Can-opener	347,834	Aug. 24	1929	512	36	846
Sharp, George B., Jr., Des Moines, Iowa, F. M. and S. Pennock, assignors to American Road Machine Company, Kennett Square, Pa. Road-grader	344,205	June 22	2053	525	35	1401
Sharp, Lavando, *et al.* (See Hunt, Samuel, assignor.)						
Sharp, Philip H., Pittston, Pa. Carriage-apron	351,663	Oct. 26	2267	587	37	434
Sharp, Taylor E., assignor of two-thirds to O. Cochran and T. J. May, Worthington, W. Va. Meat-tenderer	347,651	Aug. 17	1668	443	36	790
Sharpe, Frank, and H. E. Blake, North Adams, Mass. Camera-obscura	351,532	Oct. 26	2073	538	37	398
Sharpe, Joseph, Little Falls, N. J. Hardening within and early removal from the molds of cement pipes, &c.	343,281	June 8	739	184	35	1149
Sharples, William A., and J. A. Crenshaw, Tama City, Iowa. Shingling-bracket	341,950	May 18	1343	360	35	774
Sharples, William E., Fall River, Mass. Ring-spinning frame	343,074	June 1	423	108	35	1083
Sharples, William E., Fall River, Mass. Spinning-machine	353,887	Dec. 7	342	91	37	1070
Sharpless, William C., assignor to himself and D. H. Watts, Philadelphia, Pa. Tile-lined structure	337,629	Mar. 9	1015	261	34	1116
Sharpley, A. W., *et al.* (See Rogers, John A., assignor.)						
Sharpneck, William S., Denver, Colo. Ore-feeder	354,940	Dec. 28	1881	496	37	1377
Sharpneck, William S., Denver, Colo. Anti-friction journal-box	354,941	Dec. 28	1882	496	37	1378
Sharrer, Charles P., assignor of one-half to E. H. Croly, Syracuse, N. Y. Railway rail splice	349,958	Sept. 28	1954	505	36	1436
Shattle, Charles W., Philadelphia, Pa. Chuck	339,336	Apr. 6	319	80	35	60
Shattuck, Arthur E., Sacramento, and C. Thorn, Jr., San Francisco, assignors, by mesne assignments, of one-third to G. C. Gaylord, Nevada City, Cal. Adding-machine	349,459	Sept. 21	1266	{328 / 329}	{36 / 36}	1296
Shattuck, Charles A., Boston, Mass. Advertising apparatus	342,645	May 25	2343	619	35	964
Shavalier, James, and A. Harvey, Muskegon, Mich. Band-saw mill	337,630	Mar. 9	1016	261	34	1116
Shaver, Alfred, assignor of one-half to L. E. Shaver, Troy, N. Y. Yarn-stripper	334,004	Jan. 26	1965	523	34	386
Shaver, George F., New York, N. Y. Mechanical telephone	342,395	May 25	1985	524	35	898
Shaver, George F., New York, N. Y. Line-connection for mechanical telephones	352,577	Nov. 16	1183	320	37	695
Shaver, George F., New York, N. Y. Mechanical-telephone exchange	354,942	Dec. 28	1883	497	37	1378
Shaver, Lewis E. (See Shaver, Alfred, assignor.)						
Shaver, Wellington, assignor to himself and E. Campbell, Medusa, N. Y. Plow	340,372	Apr. 20	1834	471	35	341
Shaw, Alexander B., St. Louis, Mo. Instrument for attaching torpedoes to railway-rails	338,307	Mar. 23	1923	506	34	1296
Shaw, Benjamin C., Racine, Wis. Compositor-frame	349,528	Sept. 21	1360	353	36	1315
Shaw, Benjamin D., Waterford, Ohio, assignor of one-half to A. W. Hayward, Chicago, Ill. Torsion-spring for vehicles	352,071	Nov. 2	493	133	37	551
Shaw, Charles A. (See Rossney, William C., assignor.)						
Shaw, Charles A. (See Shute, Samuel E., assignor.)						
Shaw, Charles A. (See Shute and Stevens, assignors.)						
Shaw, Charles H. (See Saunders, Frank, assignor.)						
Shaw, Charles H., Brooklyn, N. Y. Door-check	347,525	Aug. 17	1467	389	36	751
Shaw, Charles H., Brooklyn, N. Y. Door-check	347,526	Aug. 17	1469	390	36	751
Shaw, Charles H., assignor to J. P. Adams, trustee, Brooklyn, N. Y. Night-clock	339,220	Apr. 6	147	39	35	28
Shaw, Daniel F., Brookfield, Mass. Toy bird	334,812	Jan. 26	1853	493	34	365
Shaw, Drury P. (See Newman, John W., assignor.)						
Shaw, Edgar, Lynn, Mass. Vise-jaw	334,055	Jan. 12	777	213	34	152
Shaw, Edgar, Lynn, Mass. Carbon for electrical purposes	353,598	Nov. 30	2638	.....	37	984
Shaw, Edward S., Cambridge, Mass. Elevated-railway superstructure and car-truck	353,086	Nov. 23	1889	{509 / 510}	{37 / 37}	835
Shaw, Edwin F., Bridesburg, assignor to Bridesburg Manufacturing Company, Philadelphia, Pa. Stop-motion mechanism for twisting-machines	351,659	Oct. 26	2262	585	37	433
Shaw, Elijah, Milwaukee, Wis. Pinking or scalloping machine	340,373	Apr. 20	1835	471	35	342
Shaw, Elijah, and F. D. Walden, assignors of one-half to C. T. Bradley and W. H. Metcalf, Milwaukee, Wis. Knife-sharpener	337,023	Mar. 2	196	52	34	961
Shaw & Geary. (See Parker and Geary, assignors.)						
Shaw, George F., Dedham, Mass. Sash-fastener	343,256	June 8	704	175	35	1143
Shaw, George R. (See Shaw, John W. and G. R.)						
Shaw, Hannah V., Lawrenceburg, Ind. Dust-pan	341,175	May 4	286	81	35	557
Shaw, Harry E., *et al.* (See Holt, Selden W., assignor.)						
Shaw, Harry M., Boston, Mass., assignor to Walworth Manufacturing Company. Pipe-ring	338,445	Mar. 23	2122	555	34	1331
Shaw, Henry F., Boston, assignor of two-thirds to J. W. White, Dedham, Mass., and J. C. Farmer, Providence, R. I. Traction-increaser for locomotives	353,714	Dec. 7	92	25	37	1023
Shaw, J. Elliott. (See Geary, John, assignor.)						
Shaw, James E., and J. T. Simpson, Holden, Mo. Churn	336,354	Feb. 16	1829	480	34	779
Shaw, James E., Williamsport, and J. F. Ellinger, Armstrong, assignors to Williamsport Kindling Wood Company, (limited,) Williamsport, Pa. Machine for bundling kindling-wood	336,759	Feb. 23	2385	624	34	886
Shaw, James W., Baltimore, Md. Skylight-cover	351,533	Oct. 26	2076	538	37	399
Shaw, Jeremiah G. (See Goewey, George, assignor.)						
Shaw, John E., Chicago, Ill. Tent	353,168	Nov. 23	2013	539	37	860
Shaw, John H., assignor to Sargent & Co., New Haven, Conn. Extension-key	337,203	Mar. 2	426	111	34	1065
Shaw, John H., assignor to Sargent & Co., New Haven, Conn. Mincing-machine	337,631	Mar. 9	1018	262	34	1116
Shaw, John H., assignor to Sargent & Co., New Haven, Conn. Mincing-machine. (Reissue)	10,717	Apr. 27	2659	700	35	496
Shaw, John H., assignor to Sargent & Co., New Haven, Conn. Snap-hook	340,830	Apr. 27	2468	649	35	461
Shaw, John H., Berwick, Nova Scotia, Canada, assignor to himself, S. S. Young, Somerville, Mass., F. S. Ellis, Waterville, Nova Scotia, Canada, and J. W. Young, Somerville, Mass. Seed-planter	349,460	Sept. 21	1269	329	36	1296
Shaw, John J., *et al.* (See Howe, Edward P., assignor.)						
Shaw, John L., Grand Rapids, Mich. Water-gun	334,475	Jan. 19	1397	377	34	273
Shaw, John L., Grand Rapids, Mich. Machine for affixing postage-stamps	337,450	Mar. 9	796	202	34	1076
Shaw, John W. and G. R., Little Rock, Minn. Fanning-mill	333,683	Jan. 5	250	68	34	49
Shaw, Joseph W., St. Louis, Mo. Furnace-grate	337,527	Mar. 9	894	224	34	1093
Shaw, Loring D., Melrose, assignor of one-fourth to E. Howard, Boston, Mass. Combined water-tower and fire-escape	348,297	Aug. 31	2596	{698 / 699}	{36 / 36}	976
Shaw, Marshall B., *et al.* (See Harty, William, assignor.)						
Shaw, Robert W., and C. D. V. Davis, San Francisco, Cal. Tap and faucet	350,897	Oct. 12	1127	300	37	212
Shaw, Samuel J., Boston, Mass. Window-ventilator	341,695	May 11	1016	268	35	704
Shaw, Stephen W., San Francisco, Cal. Ore-concentrator	352,578	Nov. 16	1184	{320 / 321}	{37 / 37}	695
Shaw, Sumner, Boston, Mass. Lock	335,965	Feb. 9	1238	329	34	669
Shaw, Sumner, Boston, Mass. Pulverizer and seeder	335,966	Feb. 9	1240	329	34	669
Shaw, Sumner, Boston, Mass. Combined shutter-fastener and shutter-bower	336,355	Feb. 16	1830	480	34	779

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Shaw, Sumner, Boston, Mass. Gang-drawer fastening or lock	339,486	Apr. 6	538	130	35	100
Shaw, William A., Pittsburg, Pa. Lead-press	338,561	Mar. 23	2273	596	34	1357
Shaw, William P., St. Louis, Mo. Railway-signal	341,061	May 4	121	36	35	527
Shaw, William T. (See Mericle, James, assignor.)						
Shaw, Wright, Bredbury, county of Chester, England. Shuttle-box-operating mechanism for looms	352,783	Nov. 16	1460	394	37	747
Shay, Marshall L., and C. Worden, Cleveland, Ohio. Horseshoe	340,626	Apr. 27	2189	576	35	412
Shayler, Edward, and M. H. Pearson, London, county of Middlesex, England, assignors to J. O'Flaherty, Montreal, Quebec, Canada. Tool for repairing boots and shoes	341,511	May 11	746	201	35	651
Shea, James P., and W. Brown, Waupun, Wis. Boot or shoe	345,993	July 20	1709	440	36	320
Shea, William J., Hartford, Conn. Tension device for printing-machines	347,906	Aug. 24	2127	566 / 567	36	8-1
Sheaffer, William E., Reading, Pa. Stove-lid	341,062	May 4	122	36	35	527
Sheahan, Martin, Cleveland, Ohio. Float and percolator for coffee-pots	354,490	Dec. 14	1217	326	37	1235
Shear, William C., Port Crane, N. Y. Well-drilling machine	345,181	July 6	525	134 / 135	36	96
Shear, William H., Albany, N. Y. Breech-loading fire-arm	335,043	Jan. 26	2157	574	34	419
Shearlown, Grassam. (See Burrows, Calvin A., assignor.)						
Shearer, Amanda E., Humphreys, assignor of one-half to I. R. M. Beeson, Milan, Mo. Gem-type fixer	333,684	Jan. 5	251	.....	34	49
Shearer, Leighton L., Weiser, Idaho Ter. Stirrup	346,174	July 27	1955	504	36	375
Shearer, William W., Cleveland, Ohio. Wire-drawing drum	353,975	Dec. 7	475	129	37	1093
Shears, Albert L., St. Louis, Mich. Life-boat	348,424	Aug. 31	2771	744	36	1010
Shears, Albert L., St. Louis, Mich., assignor of one-half to J. M. Combs, Hicksville, Ohio. Center-board for vessels	352,490	Nov. 9	1069	287	37	666
Sheble, Willis, *et al.* (See Pearson, Robert P., assignor.)						
Shedd, Charles F., Fairfield, Nebr. Grain-drier	334,987	Jan. 26	2072	553	34	404
Shedd, Charles F., Fairfield, Nebr. Stall for handling vicious horses	342,976	June 1	280	73	35	1057
Shedd, Charles F., Fairfield, Nebr. Device for assorting animals	342,977	June 1	281	73	35	1057
Shedd, Frank J. (See Handsby, Henry M., assignor.)						
Shedd, William F., Grand Rapids, Mich. Fence	344,413	June 29	2342	602	35	1461
Shedlock, Alfred, Jersey City, N. J., assignor of one-half to C. G. Singer, New York, N. Y. Pressure indicator and recorder	336,668	Feb. 23	2272	593 / 594	34	864
Sheehan, Patrick, Monroe, Wis. Horse-collar	347,967	Aug. 24	2128	567	36	881
Sheehan, William E., assignor to E. C. Covell and E. S. Cram, Laconia, N. H. Knitting stockings, &c	337,706	Mar. 9	1110	296 / 297	34	1131
Sheehy, Robert J., New York, N. Y. Printing-telegraph	334,294	Jan. 12	1145	306 / 307	34	221
Sheeler, Martin, *et al.* (See Caldwell, Alonzo, assignor.)						
Sheer, Henry M., and F. Dillenuth, Quincy, Ill. Traction-wheel	348,786	Sept. 7	336	90	36	1110
Sheffield, C. S. (See File, William F., assignor.)						
Sheffield, George S. (See Stewart, Andrew T., assignor.)						
Sheffield, Lucius T., New York, N. Y. Artificial denture	352,784	Nov. 16	1462	394	37	747
Sheffield, Lucius T., New York, N. Y. Artificial tooth	352,785	Nov. 16	1464	394	37	748
Sheffield, Lucius T., New York, N. Y. Artificial tooth	354,356	Dec. 14	1042	278	37	1204
Sheffield, Lucius T., New York, N. Y. Artificial tooth	354,357	Dec. 14	1043	279	37	1204
Sheffield Velocipede Car Company. (See Willits and Linsley, assignors.)						
Shefield, Wiley B. (See Hoagland, John B., assignor.)						
Sheban, Thomas, Cleveland, Ohio. Sewer-gas and stench trap	335,967	Feb. 9	1241	329	34	669
Sheban, Thomas, Cleveland, Ohio. Sewer-gas and stench trap	340,255	Apr. 20	1669	424	35	370
Shelbourne, Robison W., Blandville, Ky. Log-pusher for saw-mills	338,884	Mar. 30	2747	722	34	1446
Shelbourne, Robison W., Blandville, Ky. Log-turner	341,954	May 18	1345	360	35	774
Shelbourne, Sidney F., New York, N. Y. Induction telephone-repeater	342,881	June 1	151	38	35	1033
Shelbourne, Sidney F., New York, N. Y. Electric cable	343,676	June 15	1320	330	35	1259
Shelby, Christopher C., Paterson, N. J. Clasp	340,831	Apr. 27	2469	649	35	461
Shelby, Christopher G., Paterson, N. J. Bell-cord coupling	349,061	Sept. 14	723	184	36	1183
Shelby, Christopher C., Paterson, N. J., assignor to A. Shenfield, New York, N. Y. Suspender-buckle	342,047	May 18	1474	395	35	798
Shelby, Christopher C., assignor to Canfield Rubber Company, New York, N. Y. Fastener for neckties, scarfs, &c	342,936	June 1	232	59	35	1047
Shelby, Christopher C., Paterson, N. J., assignor to Canfield Rubber Company, New York, N. Y. Clasp	342,937	June 1	232	59	35	1047
Shelby, Christopher C., Paterson, N. J., assignor to Canfield Rubber Company, New York, N. Y. Stocking-supporter	342,938	June 1	233	60	35	1048
Shelby, Christopher C., Paterson, N. J., assignor to Canfield Rubber Company, Bridgeport, Conn. Button	346,956	Aug. 10	653	174	36	594
Shelby, Christopher C., Paterson, N. J., assignor to Canfield Rubber Company, Bridgeport, Conn. Garter	352,010	Nov. 2	407	110	37	534
Shelby, Christopher C., New York, N. Y., assignor to Canfield Rubber Company, Bridgeport, Conn. Ear-muff	346,175	July 27	1958	505	36	375
Shelby, Christopher C., New York, N. Y., assignor to Canfield Rubber Company. Stand for exhibiting scarfs, collars, &c	349,529	Sept. 21	1361	354	36	1315
Sheldon, Benjamin F., Red Wing, Minn. Potter's wheel	337,632	Mar. 9	1020	262	34	1117
Sheldon, James H., Zanesville, Ohio. Waterproofing cloth	337,528	Mar. 9	895	.....	34	1093
Sheldon, James H., Warren, Minn. Band-cutter and feeder	339,815	Apr. 13	1039	258	35	190
Sheldon, John. (See Lyons and Sheldon.)						
Sheldon, Mark A., Corry, Pa. Pinch-bar	335,389	Feb. 2	424	109	34	517
Sheldon, Nicholas. (See Sackett, George H., assignor.)						
Sheldon, Richard B., Shortsville, N. Y., and A. R. Patterson, Orangeville, Pa., assignors to Empire Drill Company, Shortsville, N. Y. Fertilizer-distributer	335,152	Feb. 2	71	19, 20	34	453
Sheldon, Richard B., and J. Y. Peacock, Shortsville, assignors to Crown Manufacturing Company, Phelps, N. Y. Seeding-machine	335,779	Feb. 9	982	260	34	623
Sheldon, Sylvester W., Jersey City, N. J. Holder for paper bags	339,487	Apr. 6	539	130	35	100
Sheldon, William K. (See North and Sheldon.)						
Shellabarger, Flavius W., Miami County, Ohio. Corn-planter	343,611	June 15	1232	309 / 310	35	1244
Shellabarger, L. P., *et al.* (See Van Horn, William, assignor.)						
Shellaberger, Charles D., Indianapolis, Ind. Fence-stretcher	336,660	Feb. 23	2275	594	34	864
Shellaberger, Edward F., Mount Vernon, Ohio. Fence	334,988	Jan. 26	2073	553	34	404
Shellaberger, George H., assignor of two-thirds to R. Willman and J. F. Tyler, St. Joseph, Mo. Bucket for endless-chain pumps	348,298	Aug. 31	2600	700	36	977
Shellenberger, Samuel L., Tyler, Tex. Device for converting motion	334,989	Jan. 26	2074	554	34	405
Shellenberger, Samuel L., Tyler, Tex. Brick-machine	348,425	Aug. 31	2773	745	36	1011
Shellenberger, Samuel L., Dallas, Tex. Nut-lock	348,426	Aug. 31	2775	745	36	1011

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Shelman, Edward H. (See Fowler and Shelman.)						
Shelton, Cyrus M. (See Gray, James W., assignor.)						
Shelton, James K. P., Gaston, Ala. Cotton-planter	351,843	Nov. 2	161	44, 45	37	489
Shelton, James K. P., Gaston, Ala. Steering and brake device	351,844	Nov. 2	166	45, 46	37	489
Shelton, James K. P., Gaston, Ala. Cotton chopper and cultivator	351,845	Nov. 2	169	46, 47	37	490
Shelton, James K. P., Gaston, Ala. Portable house	352,011	Nov. 2	408	111	37	534
Shelton, John M., Union City, Tenn. Umbrella-support	348,062	Aug. 24	2257	604	36	906
Shenfield, Abraham. (See Shelby, Christopher C., assignor.)						
Shenfield, Abraham. (See Shenfield and Gellman, assignors.)						
Shenfield, Abraham. (See Voorhis, Calvin, assignor.)						
Shenfield, Abraham, New York, N. Y. Buckle	343,735	June 15	1420	354	35	1277
Shenfield, Harry L., and C. Gellman, assignors to A. Shenfield, New York, N. Y. Suspender-clasp	348,697	Sept. 7	230	60	36	1089
Shenton, Francis, assignor to M. H. Shenton, Slatedale, Pa. Machine for dressing slate	355,279	Dec. 28	2359	620, 621	37	1470
Shenton, Mary H. (See Shenton, Francis, assignor.)						
Shepard, Amos, Plantsville, Conn. Coffee-mill	349,062	Sept. 14	724	185	36	1183
Shepard, Charles D. (See Backstrom, Charles A., assignor.)						
Shepard, Charles G. (See Vellieux and Bennington, assignors.)						
Shepard, Charles G., and P. Adams; said Adams assignor to W. J. Shepard, Buffalo, N. Y. Toy savings-bank	352,786	Nov. 16	1465	395	37	748
Shepard, Charles S. (See Prahar, Louis B., assignor.)						
Shepard, Charles S. (See Prahar and Shepard.)						
Shepard, Charles S., assignor of one-half to W. J. Phillips, Cherry Creek, N. Y. Steam-boiler	333,685	Jan. 5	251	68	34	49
Shepard, Charles W. (See Berray, Shepard, and White.)						
Shepard, Frederic M., New York, N. Y. Barber's chair	349,063	Sept. 14	724	185	36	1183
Shepard, Frederick M., East Orange, N. J. Rubber boot or shoe	340,374	Apr. 20	1837	471	35	342
Shepard, Frederick M., East Orange, N. J. Loop for articles of apparel	349,610	Sept. 21	1467	379	36	1336
Shepard, Henry W., Brooklyn, N. Y. Sput for boilers	351,660	Oct. 26	2264	585, 586	37	433
Shepard, J. H. (See Ames, Albert C., assignor.)						
Shepard, James M, Boston, Mass. Vapor-burning furnace	349,906	Sept. 28	1880	486	36	1422
Shepard, Jason H., *et al.* (See Richardson, George W., assignor.)						
Shepard Manufacturing Company. (See Shepard, Wilbur L., assignor.)						
Shepard, Stephen A., West Bellevue, assignor to Lang & Shepard, Pittsburg, Pa. Feeding device for cigar-bunching machines	352,491	Nov. 9	1070	288	37	667
Shepard, Sylvander C., Akron, Ohio. Device for converting motion	351,734	Oct. 26	2077	538	37	399
Shepard, Walter J. (See Adams, Peter, assignor.)						
Shepard, Wilbur L., Hartford, assignor to Shepard Manufacturing Company, Naugatuck, Conn. Steam-actuated valve	340,958	Apr. 27	2627	695	35	491
Shepard, Wilbur L., assignor to I. B. Davis & Son, Hartford, Conn. Valve mechanism for steam pumping-engines	344,998	July 6	293	73	36	53
Shepardson, Cornelius, Cazenovia, N. Y. Hammock	334,190	Jan. 26	2076	554	34	405
Shepardson, Norris H., West Halifax, Vt. Cultivator	340,375	Apr. 20	1837	471	35	342
Shepherd, Frank, Freelandville, Ind. Adjustable attachment for camera-stands, school-desks, &c	337,876	Mar. 16	1236	346	34	1179
Shepherd, James W., W. Ayrton, and C. Siddall, Manchester, county of Lancaster, England. Cop-building mechanism for spinning-machines	343,498	June 8	1074	268	35	1209
Shepherd, John, Memphis, Mich. Bed-bottom	342,545	May 25	2202	583	35	937
Shepherd, Thomas W., Peabody, Mass. Pointer for indicating apparatus	340,009	Apr. 13	1305	326	35	239
Sheppard, Henry C., Philadelphia, Pa. Eyeglasses	340,627	Apr. 27	2189	576	35	412
Sheppard, John J. (See Solter and Robbins, assignors.)						
Sheppard, William T., *et al.* (See Henry, John, assignor.)						
Sherburne, Charles W. (See Griggs, George H., assignor.)						
Sherburne, Charles W., Boston, Mass. Cylinder-lubricator	345,929	July 20	1620	417, 418	36	304
Sherck, Isaac, and J. Batig, Jr., Fremont, Ohio. Apparatus for waxing paper, &c	345,864	July 20	1530	396	36	286
Sherck, Isaac, and J. Batig, Jr., Fremont, Ohio. Apparatus for waxing paper	316,869	Aug. 3	524	143	36	562
Sherck, Isaac, and J. Batig, Jr., Fremont, Ohio. Device for coating paper and other materials with wax	346,870	Aug. 3	525	143	36	562
Sherck, Isaac, and J. Batig, Jr., Fremont, Ohio, assignors to themselves and G. E. Raymond, Chicago, Ill. Waxing paper	349,530	Sept. 21	1362	354	36	1316
Sherck, Isaac, and J. Batig, Jr., Fremont, Ohio, assignors to themselves and G. E. Raymond, Chicago, Ill. Apparatus for coating paper, &c., with wax	349,531	Sept. 21	1363	354	36	1316
Sherer, Samuel B., Aurora, Ill. Tether-stake	344,683	June 29	2698	700	35	1528
Sherer, Samuel B., Aurora, Ill. Water-cart	344,684	June 29	2699	701	35	1528
Sheridan Book-Binders Sewing Machine Company. (See Lieb, Charles A., assignor.)						
Sheridan, William, Toledo, Ohio. Car-coupling	350,998	Oct. 19	1300	341	37	250
Sherman, Algernon S., Plympton, Mass. Chicken feeder	342,546	May 25	2203	583	35	938
Sherman, Clarance A., Stevens Point, Wis. Gun-cleaner	350,847	Oct. 12	1062	284	37	201
Sherman, Daniel H., Brooklyn, N. Y. Latch	340,628	Apr. 27	2190	576	35	412
Sherman, Daniel H., Brooklyn, N. Y. Lock-escutcheon	347,445	Aug. 17	1361	362	36	731
Sherman, Frank P., assignor to A. M. Dolph Company, Cincinnati, Ohio. Centrifugal machine	345,994	July 20	1710	440, 441	36	320
Sherman, Ira L., Cattaraugus, N. Y. Hay-carrying apparatus	350,273	Oct. 5	237	69	37	49
Sherman, James M., St. Louis, Mo. Ratchet-drill	345,547	July 13	1073	274	36	198
Sherman, John. (See Bennett, Orson W., assignor.)						
Sherman, John E., North Attleborough, assignor to Engley, Wetherell & Co., Chartley, Mass. Chain-making machine	353,087	Nov. 23	1893	510	37	836
Sherman, John M., and J. Anderson, Ellsworth, Kans. Heating-drum	344,414	June 29	2342	602	35	1462
Sherman, John W., San Francisco, Cal. Toy theater	334,622	Jan. 19	1600	426	34	310
Sherman, Lewis, Milwaukee, Wis. Triturator	343,075	June 1	424	108, 109	35	1084
Sherman, Lewis P., Biddeford, assignor to G. Moore, Berwick, Me. Machine for drawing in warp-threads	355,221	Dec. 28	2273	599, 600, 601	37	1453
Sherman, Mortimer, Lowell, assignor to G. Draper & Sons, Hopedale, Mass. Ring-spinning frame	340,159	Apr. 20	1513	382	35	283
Sherman, Nicholas W., Coldwater, Mich. Two-wheeled vehicle	334,091	Jan. 12	829	237	34	162
Sherman, Samuel S., West McHenry, Ill. Gate	337,633	Mar. 9	1061	262	34	1117
Sherman, William W., San Francisco, Cal. Self-closing gas-burner	342,139	May 18	1605	429	35	823
Sherman, Willis D., Dixon, Ill. Wire-stretcher	353,383	Nov. 30	2314	618	37	923

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Sherman, Willis S., assignor of one-third to A. Witmeyer, Marinette, Wis. Hame-tug attachment	335,486	Feb. 2	553	145	34	540
Sherrard, John H., Delphos, Ohio. Revolving or stationary rack or case	336,166	Feb. 16	1547	408	34	728
Sherriff, William J., Allegheny, Pa. Injector	337,877	Mar. 16	1336	346	34	1179
Sherwin, Boise, New York, N. Y. Medicine-spoon	339,221	Apr. 6	148	39	35	28
Sherwin, Edwin C., Brandon, Wis. Harrow	349,006	Sept. 14	646	167	36	1169
Sherwood, Alexander B., Chicago, Ill. Paper-file	352,664	Nov. 16	1310	353	37	717
Sherwood, Allen, Syracuse, N. Y. Harness	333,556	Jan. 5	76	22	34	17
Sherwood, Alvin, Hampden, Kans. Windmill	334,813	Jan. 26	1853	494	34	365
Sherwood, Andrew T., San Francisco, Cal. Voltaic belt	335,637	Feb. 9	773	205	34	586
Sherwood, Andrew T., San Francisco, Cal. Electric belt and truss	335,638	Feb. 9	775	205	34	586
Sherwood, Andrew T., San Francisco, Cal. Electric-truss pad	335,639	Feb. 9	776	205	34	586
Sherwood, Elmer A. (See Adams, Roach, and Sherwood.)						
Sherwood, George F., and C. A. Smith, Jackson, Mich. Feeding device for middlings-purifiers	339,023	Mar. 30	2951	781	34	1483
Sherwood, John W. (See Sherwood, Josiah W. and J. W.)						
Sherwood, Josiah W. and J. W., Grand Rapids, Mich. Dipping-tank for painting carriage-bow slats	354,441	Dec. 14	1145	306	37	1223
Sherwood, Lyman. (See Brewster and Sherwood.)						
Sherwood, Sarah E. (See Brewster and Sherwood, assignors.)						
Shewmaker, John W., Terre Haute, Ind. Door attachment	354,661	Dec. 21	1486	394	37	1290
Shibley, John, New York, N. Y. Egg-carrier	347,835	Aug. 24	1939	512	36	846
Shickle, Frederick, St. Louis, Mo. Feed-water heater	335,317	Feb. 2	323	84	34	499
Shickle, Frederick, St. Louis, Mo. Traveling crane	345,736	July 20	1346	350, 351, 352	36	255
Shickle, Frederick, St. Louis, Mo. Pipe-molding apparatus	349,461	Sept. 21	1270	329	36	1296
Shields, David, Quincy, Ill. Cutting apparatus for harvesters	336,670	Feb. 23	2276	594	34	865
Shields, John, Perth, county of Perth, Scotland. Apparatus for distributing oil upon the sea at harbors, docks, &c	334,295	Jan. 12	1147	307	34	221
Shill, Jacob. (See Caldwell, William, assignor.)						
Shilton, Alfred J., Birmingham, county of Warwick, England. Disinfectant	344,056	June 22	1840	.....	35	1362
Shimer, Milton J., Freemansburg, Pa. Sad-iron	353,976	Dec. 7	477	129	37	1093
Shimer, Samuel J., Milton, Pa. Bit-holder for cutter-heads	353,509	Nov. 30	2502	668	37	959
Shimer, Samuel J., Milton, Pa. Variety-molding machine	353,510	Nov. 30	2504	668	37	959
Shindle, Michael G., Mountville, Pa. Rail-joint	344,924	July 6	178	45	36	33
Shine, George, Bangor, Mich. Farm-gate	340,376	Apr. 20	1839	472	35	342
Shinn, Benjamin F., New Iberia, La. Fire-wood drag-saw	352,269	Nov. 9	799	214	37	612
Shipley, Alfred J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Button-fastening	351,535	Oct. 26	2078	539	37	399
Shipley, John, Sayre, Pa. Rail-joint	334,056	Jan. 12	778	213	34	152
Shipley, Worthie. (See Neff, Elijah, assignor.)						
Shipman, Abraham L., Fulton, Kans. Corn-planter	344,685	June 29	2701	701, 702	35	1528
Shipman, Albert H., Rochester, N. Y., assignor to Shipman Engine Company, Boston, Mass. Hydrocarbon-furnace	353,169	Nov. 23	2014	540	37	860
Shipman, Andrew J., Hardinsville, Ill. Car-coupling	350,775	Oct. 12	947	255	37	180
Shipman, Edward L., assignor to A. L. Shipman's Sons, New York, N. Y. Temporary binder for papers	336,954	Mar. 2	96	26	34	943
Shipman Engine Company. (See Shipman, Albert H., assignor.)						
Shipman, Madison D. (See Unham, Andrew J., assignor.)						
Shipman, Madison D., De Kalb, Ill. Button	341,952	May 18	1348	360	35	775
Shipman, Madison D., De Kalb, Ill. Button	350,019	Sept. 28	2038	526	36	1451
Shipman, Madison D., De Kalb, Ill. Button	350,020	Sept. 28	2039	526	36	1451
Shipman, Madison D., De Kalb, Ill. Button	350,776	Oct. 12	948	255	37	180
Shipman, Madison D., De Kalb, Ill. Button	352,270	Nov. 9	800	214	37	612
Shipman, Madison D., De Kalb, Ill. Button	352,303	Nov. 9	915	245	37	635
Shipman, Samuel, assignor of one-fourth to J. Robinson, Grand Island, Nebr. Sliding-door lock	353,088	Nov. 23	1900	511	37	837
Shipman's Sons, Asa L. (See Shipman, Edward L., assignor.)						
Shipton, Ernest E. (See Phillips and Shipton.)						
Shirk, Jonas S., Columbus, Kans. Power-converter	336,265	Feb. 16	1704	444	34	754
Shirk, Peter E., Blue Ball, Pa. Meat-chopping machine	339,222	Apr. 6	146	40	35	29
Shirley, Frederick S., New Bedford, Mass. Glass-maker's mold	337,204	Mar. 2	427	112	34	1005
Shirley, Frederick S., New Bedford, Mass. Glassware and finishing the same	344,415	June 29	2343	603	35	1462
Shirley, Frederick S., and A. Steffin; said Steffin assignor to Mount Washington Glass Company, New Bedford, Mass. Lamp shade and bowl	345,182	July 6	526	135	36	96
Shirreff, Charles J., Brockville, Ontario, Canada. Window-screen	345,328	July 13	734	185	36	139
Shively, John W. (See Bartmes, Nathan, and Frick, assignors.)						
Shives, Kilgour, Dunsmauk, New Brunswick, Canada. Device for jointing circular saws	343,203	June 8	619	154	35	1128
Shobe, Abraham A., Jerseyville, Ill. Feed-water apparatus	335,968	Feb. 9	1242	330	34	669
Shobe, Abraham A., Jerseyville, Ill. Cable railway	337,451	Mar. 9	797	203	34	1076
Shock, Floyd, Weatherford, Tex., assignor of one-half to G. D. Barnard, St. Louis, Mo. Riding-saddle	338,195	Mar. 16	1777	463	34	1262
Shoemaker, William C. (See Rowlett and Shoemaker.)						
Shoenberger, John L., Pittsburg, Pa. Car-coupling	348,243	Aug. 31	2527	679	36	961
Shoeninger, Adolph. (See Unzicker, Otto, assignor.)						
Shoesmith, Edward W. (See Tobias and Shoesmith.)						
Shogren, Andrew, Aurora, Ill. Combined steam-heating and ventilating apparatus	350,949	Oct. 19	1195	318	37	232
Shogren, Hans, East Portland, Oreg. Two-wheeled vehicle	334,991	Jan. 26	2077	555	34	405
Shomate, Joseph F., assignor to himself and F. M. Parish, El Dorado, Ill. Beer and water cooler	340,377	Apr. 20	1840	472	35	343
Shone, George, East St. Louis, Ill. Automatic car-brake	343,204	June 8	620	155	35	1128
Shook, Levi, Pittsburg, Pa. Gas-pressure-regulating valve	341,776	May 11	1111	295	35	723
Shook, William M., Canton, Ohio. Middlings-purifier	346,336	July 27	2174	558	36	416
Shorey, Samuel W., Boston, Mass. Glove-fastening	345,930	July 20	1622	418	36	304
Shorey, Samuel W., Boston, Mass. Fastening for gloves and other articles	352,271	Nov. 9	801	214	37	613
Short, Job. (See Dewey and Short.)						
Short, Orvill E., Syracuse, N. Y. Spring-vehicle	339,223	Apr. 6	149	40	35	29
Short, Robert B., Hanna, Ind. Railway-switch	352,579	Nov. 16	1185	321	37	695
Short, Sidney H., Denver, Colo. Electrical railway	343,076	June 1	425	109	35	1084
Short, Sidney H., assignor to United States Electric Company, Denver, Colo. Regulator for dynamo-electric machines	347,204	Aug. 10	1005	268	36	658
Short, Sidney H., and J. W. Nesmith, Denver, Colo. Circuit for electric railways	339,942	Apr. 13	1208	301	35	222

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Short, Sidney H., and J. W. Nesmith, Denver, Colo. Electric railway	348,476	Aug. 31	2845	766	36	1024
Short, Sidney H., and J. W. Nesmith, Denver, Colo. Electric railway	348,477	Aug. 31	2848	767	36	1024
Shortess, Stephen T., Vinton, Iowa. Device for overcoming dead-centers	342,470	May 25	2093	553	35	918
Shortsleeve, David, assignor to E. A. Morse, Rutland, Vt. Sand-feeding mechanism for stone-sawing machines	347,388	Aug. 17	1277	340	36	716
Shoudy, George H., *et al.* (See Lamb, A. B. Lewis, assignor.)						
Shoudy, John M., *et al.* (See Lamb, A. B. Lewis, assignor.)						
Shouk, Charles W. (See Nicol, Robert, Jr., assignor.)						
Shoults, Alexander L., Bloomingburg, Ohio. Drain-tile protector	344,141	June 22	1961	501	35	1384
Shrader, Charles H., Covington, Ky. Mechanism for lettering book-covers	354,253	Dec. 14	892	236	37	1176
Shriver, Charles H. (See Shriver, James, assignor.)						
Shriver, James, Westminster, Md., assignor to C. H. Shriver, Dedham, Mass. Refrigerator	347,205	Aug. 10	1007	268	36	658
Shriver, Robert, *et al.* (See Allfree, James B., assignor.)						
Shriver, Robert, Cumberland, Md. Adjustable indicator for calendars	346,132	July 27	1895	490	36	363
Shriver, William, and W. M. Peard, Philadelphia, Pa.; said Shriver assignor to said Peard. Ink-well	350,325	Oct. 5	301	86	37	61
Shroeder, Leopold C., Jamestown, N. Y. Feed-regulator	334,092	Jan. 12	830	227	34	162
Shroff, Samuel A. (See Neff, Thomas H., assignor.)						
Shropshire, Zebedee B., Ooltewah, and A. J. Berryhill, Cleveland, Tenn. Car-coupling	338,108	Mar. 16	1665	433	34	1239
Shryock, James W., Trinidad, Colo. Telegraph-transmitter	353,715	Dec. 7	93	25	37	1023
Shryock, William B. (See Baldwin, Charles E., assignor.)						
Shuck, John M., Des Moines, Iowa. Device for inverting bee-hives	335,153	Feb. 2	73	20	34	453
Shuck, John M., Des Moines, Iowa. Bee-hive	338,647	Mar. 23	2389	630	34	1377
Shugart, T. Woodward, and C. D. Clifton, Dublin, Tex. Insecticide	333,893	Jan. 5	537	.....	34	100
Shuler, Andrew F., Arcanum, Ohio. Jump-seat iron	334,905	Jan. 26	1966	523	34	386
Shuler-Shutz & Co. (See Shuler-Shutz, Louis P., assignor.)						
Shuler-Shutz, Louis P., assignor to Shuler-Shutz & Co., New York, N.Y. Handkerchief-box	335,723	Feb. 9	898	237	34	608
Shull, Samuel, Radersburg, Mont. Ter. Car-coupling	353,977	Dec. 7	478	130	37	1093
Shull, William S., Clayton, Ill. Hand garden-cultivator	341,512	May 11	748	201	35	651
Shulnburg, George F., Madison, Nebr. Safety neck-yoke attachment	352,364	Nov. 9	917	245	37	636
Shults, George J., Avoca, N. Y. Chair	349,907	Sept. 28	1881	486	36	1422
Shultz, John A. J., assignor to M. E. Shultz, St. Louis, Mo. Leather stuffing	337,287	Mar. 2	545	.....	34	1027
Shultz, Joseph T., assignor of one-half to J. B. Glass, Springfield, Mo. Truck for moving houses	351,806	Nov. 2	109	31	37	478
Shultz, Mary E. (See Shultz, John A. J., assignor.)						
Shuman, Charles, Rockford, Ill. Neck-yoke	344,289	June 22	2172	556	35	1422
Shumo, Daniel M. (See Nelson, Hugh, assignor.)						
Shunk, Benjamin, Jacksonville, Fla. Hat-cover and neck-shield	350,398	Oct. 5	389	112	37	78
Sibley, Frederick, New York, N. Y. Apparatus for desulphurizing ores	337,998	Mar. 16	1517	393	34	1211
Sibley, Horace N. (See Hanks and Sibley.)	338,367	Mar. 23	2013	529	34	1311
Shuster, James L., Gloucester, and W. O. Taylor, Malden, Mass.; said Taylor assignor to said Shute. Machine for cutting fish into blocks	346,871	Aug. 3	527	143, 144	36	562
Shute, Joseph B. (See Stephen, Joseph S., assignor.)						
Shute, Samuel E., Richmond, Ind., assignor, by mesne assignments, to C. A. Shaw, Boston, Mass. Roller-skate	337,205	Mar. 2	429	112	34	1005
Shute, Samuel E., Richmond, Ind., assignor to C. A. Shaw, Boston, Mass. Roller-skate	337,878	Mar. 16	1337	347	34	1179
Shute, Samuel E., and G. C. Stevens, Richmond, Ind., assignors to C. A. Shaw, Boston, Mass. Roller-skate	334,992	Jan. 26	2078	555	34	406
Shuttleworth, Tom I., Amsterdam, N. Y., assignor of one-half to J. Burt, Philadelphia, Pa. Loom for weaving figured double pile fabrics	354,358	Dec. 14	1044	279	37	1204
Shy, Julius F. (See Ackerson and Shy.)						
Sibley, E. Ripley, and H. P. Wells, Salisbury, Mass. Ventilated spring-cushion for vehicles and furniture	333,557	Jan. 5	77	22	34	17
Sibley, Edwin E., assignor to American Fire Hose Manufacturing Company, Chelsea, Mass. Knitted fabric	318,698	Sept. 7	230	61	36	1089
Sibley, Frederick, New York, N. Y. Apparatus for desulphurizing ores	355,222	Dec. 28	2281	602	37	1454
Sibley, Horace N. (See Hanks and Sibley.)						
Sibley, Joseph C. (See Allen, George, assignor.)						
Sickels, Gerard, Boston, assignor of one-half to E. B. Welch, Cambridge, Mass. Double-piston water-meter	342,140	May 18	1607	429	35	823
Sickler, Edward E. (See Sickler, Jacob and E. E.)						
Sickler, Jacob, Otterbein, and E. E. Sickler, Indianapolis, Ind. Wire-stretcher	333,787	Jan. 5	399	108	34	75
Sicklesteel, George M., North Branch, Mich. Shaft-tug	341,063	May 4	123	37	35	527
Siddall, Charles. (See Shepherd, Ayrton, and Siddall.)						
Sidney, William E., Frankfort, Ind. Flue-cleaner	346,692	Aug. 3	303	83	36	520
Sidney, William H. (See Rickard, Ira, assignor.)						
Sidwell, William E. (See Dunn and Sidwell.)						
Sieben, Henry, and W. F. Jacubzick, Omaha, Nebr. Vehicle-wheel	351,661	Oct. 26	2265	586	37	433
Siebert, Frederick, St. Louis, Mo. Belt-pulley	337,024	Mar. 2	197	52	34	961
Siebler, George E., Dayton, Ohio. Saw-handle	352,937	Nov. 23	1674	449	37	796
Siebold, John H., Hoboken, N. J. Lithographer's arm-rest	344,874	July 6	114	28	36	21
Siedhof, Charles, Union, N. J. Fuel compound	345,329	July 13	735	.....	36	139
Siefker, John G. C., Chicago, Ill. Organ sound-board	339,224	Apr. 6	150	40	35	29
Siegel, Andrew. (See Brüstle and Siegel.)						
Siegenthaler, Harvey N., and E. Craig, Springfield, Ohio. Embalming-syringe	337,707	Mar. 9	1111	287	34	1131
Siemens Brothers & Company. (See Raworth, John S., assignor.)						
Siemens, Ernst W., Berlin, Prussia, Germany. Electric railway	340,462	Apr. 20	1949	500, 501	35	362
Siemens, Frederick, Dresden, Saxony, Germany. Working regenerative gas-furnaces	341,285	May 4	438	119, 120, 121	35	586
Siemens-Lungren Company. (See Lungren, Charles M., assignor.)						
Siereveld, Maximilian, and G. H. Stallman, Cincinnati, Ohio. Sausage-stuffer	343,077	June 1	427	110	35	1084
Sievern, Gustav F. (See Sauer and Sievern.)						
Sigafoos, James H., Fremont, Nebr. Horse hay-rake	354,254	Dec. 14	893	236	37	1176
Siggers, E. G., *et al.* (See Radzinsky, Louis D., assignor.)						
Silbermann, John A., and J. G. Rodriñan, Frackville, Pa. Scoop	335,390	Feb. 2	425	109	34	517
Silbernik, Joseph, New York, N. Y. Toilet-fan	335,318	Feb. 2	324	85	34	499
Silberzahn, Charles and C. A., West Bend, Wis. Feed-cutter	345,078	July 6	389	98	36	71
Silberzahn, Charles A. (See Silberzahn, Charles and C. A.)						
Silk, Francis R. (See Williams and Silk.)						
Silver, Hugh A., and W. Fletcher, London, England. Ejecting mechanism for revolvers	341,696	May 11	1017	269	35	705
Silver, Marvin C., New Brunswick, N. J. Spring bed-bottom	337,206	Mar. 2	431	112	34	1006
Silver, Samuel N., Auburn, Me. Belt catcher and supporter	340,629	Apr. 27	2191	577	35	412

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Silver, William H., New York, N. Y. Egg-beater	341,697	May 11	1019	269	35	705
Silver, William H., New York, N. Y. Egg-poacher and egg-fitier	352,572	Nov. 9	862	215	37	613
Silverlock, William B., London, county of Middlesex, England. Bronzing-machine	347,652	Aug. 17	1668	444	36	790
Silvermann, William. (See Harris, Charles R., assignor.)						
Simmon, Gustav H. W., assignor to J. F. Vogt & Brother, St. Louis, Mo. Barrel leveling and trussing machine	336,760	Feb. 23	2386	625	34	886
Simmon, Gustav H. W., assignor to J. F. Vogt & Bro., St. Louis, Mo. Swinging counter-shaft frame and belt-fastener	349,462	Sept. 21	1272	330	36	1297
Simmonds, Fernandize M., *et al.* (See Logan, Robert W., assignor.)						
Simmons, Alexander B. (See Mason, James H., assignor.)						
Simmons, Calvin H., Munford, Ala. House clamp and anchor	351,407	Oct. 26	1889	492	37	362
Simmons, Edward M., assignor of one-half to W. J. Russell, Grand Rapids, Mich. Fifth-wheel	338,562	Mar. 23	2275	596	34	1357
Simmons, George, Hobart, N. Y. Seat-lock for vehicles	347,894	Aug. 24	2014	534	36	860
Simmons, George W., assignor of one-half to E. F. Thomas, Youngstown, Ohio. Running-gear for carriages	335,969	Feb. 9	1243	330	34	670
Simmons, George W., assignor of one-half to E. F. Thomas, Youngstown, Ohio. King-bolt	351,472	Oct. 26	1989	516	37	381
Simmons, James W. L., Baltimore, Md. Propeller-wheel	335,640	Feb. 9	777	205	34	587
Simmons, John D., and J. O. Hall, St. Louis, Mo. Picture-mat	350,777	Oct. 12	950	255	37	180
Simmons, John E., assignor to R. M. Morgan, J. R. Foster, and B. F. Brown, Concord, N. H. Carriage-spring	341,933	May 18	1349	361	35	775
Simmons, John P., San Francisco, Cal. Cut-off valve	337,025	Mar. 2	108	52	34	961
Simmons, Joseph W., Chicago, Ill. Runner for wheeled vehicles	352,380	Nov. 16	1187	321	37	695
Simmons, Samuel, New York, N. Y. Holder for boas	351,941	Nov. 2	311	86	37	515
Simmons, William, and J. F. Sprague, Providence, R. I.; said Sprague assignor to said Simmons. Draft attachment for frying-pans	333,894	Jan. 5	537	146	34	100
Simmons, Zalmon G. (See Seymour, William S., assignor.)						
Simms, Henry W. (See Ernst, John, assignor.)						
Simms, Henry W., Bay City, Mich. Valve	340,630	Apr. 27	2192	577	35	412
Simms, Henry W., assignor of one-half to F. Johnson, Bay City, Mich. Curtain-fixture	345,811	July 20	1457	377	36	275
Simms, Henry W., assignor of one-half to F. Johnson, Bay City, Mich. Curtain-fixture	345,812	July 20	1459	377	36	275
Simon, August T., Bloomington, assignor to M. R. Vandervoort, Clinton, Ill. Fire-engine	346,872	Aug. 3	530	144	36	563
Simon, Henry J., Inero, Tex. Coupling for wagon-tires	343,736	June 15	1421	354	35	1277
Simon, Jules, and C. Contant, Fort Wayne, Ind. Axle-lubricator	348,787	Sept. 7	337	90	36	1110
Simon, Michael, Millersburg, Ohio. Door-securer	343,401	June 8	940	235	35	1185
Simon, Robert, Weehawken, N. J. Silk fabric and method of preparing tram for the same	348,063	Aug. 24	2258	604	36	906
Simon, S. (See McAleer and Johnston, assignor.)						
Simon, William, assignor to Baltimore Chrome Works, Baltimore, Md. Manufacture of bichromate of potash	342,646	May 25	2343	.....	35	964
Simon, William, assignor to Baltimore Chrome Works, Baltimore, Md. Manufacturing ammonium bichromate	342,647	May 25	2344	.....	35	964
Simonds, Amos B., Youngstown, Ohio. Measuring-pump	336,761	Feb. 23	2388	626	34	887
Simonds, Daniel, Fitchburg, Mass. Band-saw	346,565	Aug. 3	145	40	36	488
Simonds, George F., Fitchburg, Mass. Shell and method of making the same	348,788	Sept. 7	338	90	36	1110
Simonds, George F., Fitchburg, Mass. Armor-piercing shell	348,789	Sept. 7	339	91	36	1110
Simonds, George F., Fitchburg, Mass. Die for making rolled forgings	348,790	Sept. 7	339	91	36	1110
Simonds, George F., Fitchburg, Mass. Die for making rolled forgings	352,365	Nov. 9	917	246	37	636
Simonds, George F., Fitchburg, Mass. Roller-swaging die	352,366	Nov. 9	918	246	37	636
Simonds, George F., Fitchburg, Mass. Making metal-rolling dies	352,367	Nov. 9	918	246 / 247	37	636
Simonds, Gustavus B., Sedalia Mo. Churn	344,999	July 6	295	73	36	53
Simonds, Joseph S., Detroit, Mich. Preparing paper for sun-pictures	347,527	Aug. 17	1470	.....	36	751
Simonds, Nathan J. (See Horner, William W., assignor.)						
Simoneau, Adelard. (See Simoneau, Joseph and A.)						
Simoneau, Joseph and A., Three Rivers, Mass. Yarn separating and warping machine	351,536	Oct. 26	2080	539	37	399
Simons, Ernest, *et al.* (See Ingersoll, Simon, assignor.)						
Simons, Howard T., Cambridge, Ohio. Trace-buckle	350,778	Oct. 12	951	255	37	180
Simons, Paul, Darmstadt, Hesse, Germany. Drying-house	351,662	Oct. 26	2266	586	37	433
Simonson, James H. (See Morris, James H., assignor.)						
Simonson, James H., *et al.* (See Slater, Jacob G., assignor.)						
Simonson, James H., Albany, N. Y. Dickey for shirts	338,563	Mar. 23	2275	597	34	1357
Simonson, Wallace. (See Terril and Simonson.)						
Simonton, Thomas C., Jr. (See Hayward and Simonton.)						
Simpkin, William. (See Delaney and Simpkin.)						
Simpkins, Alvin T., St. Louis, Mo. Baker's oven	346,631	Aug. 3	218	60	36	502
Simpkins, William H., St. Louis, Mo. Sewer-pipe back-pressure valve	353,888	Dec. 7	343	92	37	1070
Simpson, Abijah, Lenox, Mich. Hay-press	350,898	Oct. 12	1128	300	37	212
Simpson, Abijah, assignor of one-half to W. R. Gillett, Smith Creek, Mich. Hay-press	340,828	Apr. 27	2466	649	35	461
Simpson, Alfred H. (See Simpson, James E., Jr., and A. H.)						
Simpson, Archibald, *et al.* (See Cooke, William, assignor.)						
Simpson, Charles S., Buffalo, N. Y. Roller-bearing for axles	343,257	June 8	705	175	35	1143
Simpson & Co., James E. (See Simpson, James E., Jr., and A. H., assignors.)						
Simpson, David T., New York, N. Y. Web-perfecting cylinder printing-machine	345,079	July 6	390	98, 99	36	71
Simpson, George F., Brooklyn, N. Y. Grinding-mill	347,968	Aug. 24	2129	567	36	881
Simpson, Hall, Miller & Co. (See Hawkins, Westel E., assignor.)						
Simpson, Henry C., and P. Willox, East Saginaw, Mich. Smoke-stack	354,255	Dec. 14	895	236	37	1176
Simpson, J. A., *et al.* (See Mitchell, William A., assignor.)						
Simpson, James. (See Parnell and Simpson.)						
Simpson, James E., Jr. (See Kennish, William, assignor.)						
Simpson, James E., Jr., and A. H., Brooklyn, assignors to J. E. Simpson & Co., New York, N. Y. Dry-dock	347,895	Aug. 24	2014	534	36	860
Simpson, James E., Jr., and A. H., Brooklyn, assignors to J. E. Simpson & Co., New York, N. Y. Dry-dock	347,896	Aug. 24	2016	534	36	860
Simpson, James H., Pittsburg, Pa. Manufacture of hooked coupling-links	345,080	July 6	394	99	36	72
Simpson, James H., Richmond, Va. Umbrella-runner	353,978	Dec. 7	479	130	37	1094
Simpson, James T. (See Shaw and Simpson.)						
Simpson, John, assignor to Cleveland Malleable Iron Company, Cleveland, Ohio. Scythe-snath	339,488	Apr. 6	540	131	35	100
Simpson, Lenox, Bellevue, Pa. Kiln	349,755	Sept. 28	1681	434	36	1382
Simpson, Lenox, Pittsburg, Pa. Brick-kiln	349,756	Sept. 28	1683	435	36	1382
Simpson, M. R. (See Boyer, Arthur M., assignor.)						
Simpson, Peter L., Minneapolis, Minn. Brick-machine	348,064	Aug. 24	2259	604 / 605	36	906
Simpson, Robert W., San Francisco, Cal. Anti-friction thill-tip	349,817	Sept. 28	1769	457	36	1399

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Simpson, Samuel S., Clay Centre, Kans. Windmill	351,537	Oct. 26	2081	539	37	400
Simpson, Thomas J., Worthington, Minn. Spark arrester and conductor	334,680	Jan. 19	1677	448	34	324
Simpson, William B., Holden, Mo. Escapement-lever for watches	337,529	Mar. 9	896	228	34	1093
Simpson, William B., Richburg, S. C. Seed-planter and fertilizer-distributer	353,979	Dec. 7	480	130 131	37	1094
Sims, Henry, Erie, Pa. Automatic boiler cleaner	344,925	July 6	179	46	36	33
Sims, Peter H., and P. Hohmeier, Waterloo, Ontario, Canada. Hot-air furnace	343,737	June 15	1422	354 355	35	1278
Sims, William B. F., Corydon, Ind. Measuring-pump	351,538	Oct. 26	2082	540	37	400
Sinclair, Daniel. (See Smith and Sinclair.)						
Sinclair, James M., New York, N. Y. Fire-proof-flue structure	345,000	July 6	297	74	36	53
Sinclair, John E., Worcester, Mass. Ratchet-wrench	349,007	Sept. 14	648	167	36	1170
Sinclair, Robert S., Indianapolis, Ind. Device for suspending hams, &c	343,499	June 8	1075	269	35	1209
Sindall, Charles A. (See Jones, Reuben, assignor.)						
Singer, Charles, Jr., E., and H., Peoria, Ill. Bottle-washer	350,643	Oct. 12	774	211	37	148
Singer, Charles A., New York, N. Y. Centering-tool	335,845	Feb. 9	1069	282 283	34	640
Singer, Charles A., New York, N. Y. Key-fastener	344,416	June 29	2346	603	35	1462
Singer, Charles A., New York, N. Y. Lathe-chuck	346,133	July 27	1896	490	36	363
Singer, Charles G. (See Shedlock, Alfred, assignor.)						
Singer, Emil. (See Singer, Charles, Jr., E., and H.)						
Singer, Henry. (See Singer, Charles, Jr., E., and H.)						
Singer Manufacturing Company of New Jersey. (See Conpropst, Thomas M., assignor.)						
Singer Manufacturing Company of New Jersey. (See Diehl, Philip, assignor.)						
Singer Manufacturing Company of New Jersey. (See Greene, James G., assignor.)						
Singer Manufacturing Company of New Jersey. (See Greene and Diehl, assignors.)						
Singer Manufacturing Company of New Jersey. (See Griest, John M., assignor.)						
Singer Manufacturing Company of New Jersey. (See Pine, Leighton, assignor.)						
Singerly, William M. (See Snyder, Theodore H. and E. V., assignors.)						
Singiser, Henry C., Mechanicsburg, Pa. Switch-stand	345,081	July 6	395	99	36	72
Singiser, Henry C., Mechanicsburg, Pa. Car-door fastener	346,230	July 27	2031	524	36	390
Singletary, Don, Union City, Tenn. Horse-detacher	338,308	Mar. 23	1925	507	34	1296
Singleton, George, Dover, N. J. Tension device for silk-spinning machines	340,631	Apr. 27	2193	577	35	412
Singleton, George, Jersey City, N. J., assignor to Eagle Pencil Company, New York, N. Y. Rubber-tip attachment for lead-pencils, &c	345,865	July 20	1531	396	36	287
Singley, Laiseur N., Uniontown, Pa. Collapsible case	346,779	Aug. 3	404	111	36	539
Sinker, Alfred T., *et al.* (See Saunders, Charles R. P., assignor.)						
Sinsabaugh, Louis W., *et al.* (See Alexander, Robert, assignor.)						
Sinsabaugh, Louis W. (See Mahon, Alexander, assignor.)						
Sintz, Clark, Springfield, Ohio. Gas-engine	339,225	Apr. 6	151	41	35	29
Sintzenich, Edwin B., Rochester, N. Y. Balanced valve	334,136	Jan. 12	892	244	34	174
Sintzenich, Horace H. C., assignor to J. Lamb, Toronto, Ontario, Canada. Railway-rail chair	348,699	Sept. 7	231	61	36	1089
Sise, Martin L. (See Devitt and Sise.)						
Sisson, Charles A., New Bedford, Mass. Pad for harness-saddles	343,612	June 15	1236	310	35	1245
Sisson, William P., Garnett, Kans. Ruler	352,787	Nov. 16	1467	395	37	748
Sisum, William H. H., Brooklyn, N. Y. Car-truck	338,368	Mar. 23	2015	530	34	1311
Skellenger, Theodore P., Morristown, N. J. Farm-gate	346,506	Aug. 3	73	19	36	474
Skelton, Henry, Cabery, Ill. Cultivator	334,479	Jan. 19	1401	378	34	274
Skinkle, Jacob W. (See Rankin, Thomas L., assignor.)						
Skinner, Charles A., *et al.* (See Rumsey, Charles B., assignor.)						
Skinner, Charles E. (See Skinner, Halcyon and C. E.)						
Skinner, Charles E., Yonkers, N. Y. Electrical igniter for gas-engines	335,970	Feb. 9	1244	330	34	670
Skinner, Charles E., Yonkers, N. Y. Gas-engine speeder	352,368	Nov. 9	919	247	37	636
Skinner, Edwin S. (See Burns, Robert, assignor.)						
Skinner Engine Company. (See Skinner, Le Grand, assignor.)						
Skinner, Gardiner M., Clayton, N. Y. Trolling-spoon bait	341,954	May 18	1350	361	35	776
Skinner, George C., and C. M. Brooks, Troy, Ohio. Weather-strip	347,206	Aug. 10	1007	268	36	659
Skinner, George C. and J. H., Troy, Ohio. Cutt-off table for tile-machines	353,170	Nov. 23	2015	540	37	861
Skinner, Halcyon, assignor to A. Smith & Sons Carpet Company, Yonkers, N. Y. Loom for weaving chenille or fur pile fabrics	354,256	Dec. 14	896	236 237 238	37	1176
Skinner, Halcyon and C. E., Yonkers, N. Y. Gas-engine	335,971	Feb. 9	1245	331	34	670
Skinner, John G., Oswego, N. Y. Ice-creeper	340,378	Apr. 20	1841	472	35	343
Skinner, Joseph H. (See Peters and Skinner.)						
Skinner, Joseph H. (See Skinner, George C. and J. H.)						
Skinner, Joseph J., Boston, Mass. Animal-trap	351,807	Nov. 2	110	31	37	478
Skinner, Joseph J., Boston, Mass. Animal-trap	351,808	Nov. 2	111	31	37	479
Skinner, Joseph J., Boston, Mass. Jaw-trap	351,809	Nov. 2	113	31	37	479
Skinner, Joseph J., Boston, Mass. Animal-trap	351,810	Nov. 2	114	32	37	479
Skinner, Josiah G., *et al.* (See Dilley, Abraham T., assignor.)						
Skinner, Le Grand, assignor, by mesne assignments, to Skinner Engine Company, Erie, Pa. Engine-frame jig	349,757	Sept. 28	1684	435	36	1383
Skinner, Prentice B., Wilmington, assignor of one-half to T. Watts and D. H. Stapp, Aurora, Ind. Machine for turning wooden bowls	341,513	May 11	748	202	35	652
Skinner, Taber, Philadelphia, Pa. Adjustable window-screen	353,171	Nov. 23	2016	540	37	861
Skipworth, Samuel W., Blue Mound, Kans. Combined chimney and ventilator	340,379	Apr. 20	1842	472 473	35	343
Skugrud, Gustav A., Genesee, Idaho Ter. Violin	345,454	July 13	916	230	36	170
S. & L. Manufacturing Company. (See Shamp, George W., assignor.)						
Slack, Alfred M., assignor of one-half to H. Loeb, Du Bois, Pa. Bill and letter file	340,832	Apr. 27	2470	650	35	461
Slack, Clarence M., and F. Crawford, New Brunswick, N. J. Thill-coupling	344,549	June 29	2334	655	35	1495
Slack, Fred. J., Manchester, N. H. Platform attachment for ladders	352,716	Nov. 16	1381	373	37	732
Slack, Martha W., Sandwich, Ill. Sleeve and glove protector	338,790	Mar. 30	2612	688	34	1422
Sladdin, Joseph, Lawrence, Mass. Oil-cup	350,779	Oct. 12	952	256	37	181
Sladdin, Joseph, Lawrence, Mass. Carriage-axle lubricator	350,780	Oct. 12	953	256	37	181
Slade, James P. T., Manchester, county of Lancaster, England. Changeable work-supporting table	351,214	Oct. 19	1585	415 416	37	303
Slafter, David G., *et al.* (See Miller, Richard W., assignor.)						
Slafter, James C., and A. C. Clausen, Minneapolis, Minn. Dust-guard for railway-cars	337,999	Mar. 16	1519	393	34	1211
Slaght, Charles P., Tiffin, Iowa. Hay rake and loader	334,093	Jan. 12	831	227 228	34	162
Slanker, Frank O., Pomona, Cal. Wagon-axle nut	340,736	Apr. 27	2348	618	35	439
Slanker, Frank O., assignor to himself and J. Harvey, Pomona, Cal. Oil-cup	339,489	Apr. 6	542	131	35	100

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Slate, Dwight, Hartford, Conn. Drilling-machine	347,969	Aug. 24	2130	567	36	881
Slater, Charles B., Blanchester, Ohio. Grain-scourer	343,402	June 8	941	235	35	1185
Slater, Edmond B., assignor to C. Parker Company, Meriden, Conn. Key	334,814	Jan. 26	1855	494	34	366
Slater, Jacob G., assignor of one-half to J. P Wilson, Poughkeepsie, N. Y. Car-coupling	340,681	Apr. 27	2265	597	35	424
Slater, Jacob G., Poughkeepsie, assignor of two-thirds to J. F. Brown and J. H. Simonson, Albany, N. Y. Car-coupling	352,581	Nov. 16	1188	321	37	695
Slater, John W., Holloway, county of Middlesex, and W Stevens, London, England. Treating sewage	352,894	Nov. 16	1610	.....	37	775
Slater, Warren G., and J. Lamoreaux, Fremont, Mich. Button-attaching machine	339,024	Mar. 30	2954	781	34	1483
Slater, Warren G., and J. Lamoreaux, Fremont, Mich. Button-attaching machine	339,337	Apr. 6	320	80.81	35	60
Slattery, Marmaduke M. M., assignor to Sun Electric Light Company, Woburn, Mass. Connecting-clip for electrical apparatus	344,417	June 29	2348	603	35	1462
Slattery, Marmaduke M. M., assignor to Sun Electric Light Company, Woburn, Mass. Resistance-block for electric circuits	354,257	Dec. 14	902	239	37	1177
Slattery, Marmaduke M. M., assignor to Sun Electric Light Company, Woburn, Mass. Apparatus for electrical distribution	354,258	Dec. 14	902	239	37	1177
Slaughter, George E., Atlantic, Iowa. Gas-lamp	343,344	June 8	848	214	35	1168
Slaughter, George E., Atlantic, Iowa. Hosiery-exhibitor and sale-rack	354,943	Dec. 28	1884	497	37	1378
Slauson, Daniel, Monticello, Iowa. Gate	340,160	Apr. 20	1515	383	35	283
Slauson, Willis D., Racine, Wis. Baling-press	333,895	Jan. 5	539	146	34	101
Slaybaugh, Ely H., and J. M. Akers, Alliance, Ohio. Bottle-stopper	353,599	Nov. 30	2639	705	37	984
Sleeman Gas Saving Company. (See Sleeman, Nathaniel, assignor.)						
Sleeman, Nathaniel, Birmingham, assignor, by mesne assignments, to Sleeman Gas Saving Company, Waterbury, Conn. Gas-regulator	335,156	Feb. 2	79	22	34	454
Sleeper, Charles T., and F. J. Hubbard, assignors to Sleeper Manufacturing Company, Chicago, Ill. Metallic packing for piston and valve rods	334,480	Jan. 19	1404	379	34	274
Sleeper, George W., assignor of one-half to W. A. Reed, Westborough, Mass. Shoe-upper-splitting machine	350,084	Sept. 28	2128	550, 551	36	1468
Sleeper Manufacturing Company. (See Sleeper and Hubbard, assignors.)						
Slevin, James J. (See Cruice, Daniel, assignor.)						
Slinn, Benjamin S., Spring Valley, N. Y. Fetter for cows' tails	334,906	Jan. 26	1967	523	34	386
Slinn, Henry H., Chillicothe, Ill. Cartridge-loader	349,818	Sept. 28	1769	457, 458	36	1399
Sliter, Jefferson B., and C. T. Bazzett, Waverly, N. Y. Carriage-spring	353,980	Dec. 7	481	131	37	1094
Sloan, Alexander, assignor of one-half to J. D. Green, Pittston, and L. Pughe, Scranton, Pa. Grate for stoves and furnaces	343,500	June 8	1076	269	35	1209
Sloan, Alexander, assignor of one-half to J. D. Green, Pittston, and L. Pughe, Scranton, Pa. Oven for stoves or ranges	354,748	Dec. 21	1613	427	37	1314
Sloan, Alfred J., Clyde, N. Y. Clothes-fork	338,109	Mar. 16	1666	433	34	1239
Sloan, George, Otter River, Mass. Bottle	353,600	Nov. 30	2640	705	37	984
Sloan, James F., Toronto, Ontario, Canada. Frame for woven mattresses	336,444	Feb. 16	1954	512	34	801
Sloan, Richard, Torrington, Conn. Rubber boot	347,653	Aug. 17	1670	444	36	790
Sloan, Robert I. (See Latimer, Harry L., assignor.)						
Sloan, Robert I., *et al.* (See Pendleton, John H., assignor.)						
Sloan, Robert I., *et al.* (See Pendleton and Tiers, assignors.)						
Sloan, Robert I., *et al.* (See Weber, Theodor K. A., assignor.)						
Sloan, Thomas J., St. Monde, France. Machine for making threaded wire nails, wood-screws, &c	338,446	Mar. 23	2123	555, 556	34	1331
Sloan, Thomas J., St. Monde, France. Wire nail	348,589	Sept. 7	77	23	36	1062
Sloane, Charles W., *et al.*, executors. (See Benham, Henry W.)						
Sloane, George H. (See McGrady and Sloane.)						
Slocomb, John T., Hyde Park, Mass. Bicycle	349,532	Sept. 21	1364	354, 355	36	1316
Slocum, Eason L., Pawtucket, R. I. Fire-alarm apparatus	351,075	Oct. 19	1397	367	37	267
Slocum, George S., Newport, R. I. Bottling-machine	347,654	Aug. 17	1671	444, 445	36	790
Slocum, John C., assignor of one-half to E. Scofield, Marinette, Wis. Gang-saw mill	335,319	Feb. 2	325	85	34	500
Slocum, William H., Buffalo, N. Y. Type-writing machine	335,972	Feb. 9	1247	331, 332	34	670
Slocumb, John L., Edwards, Miss. Cotton-scraper	335,973	Feb. 9	1250	332	34	671
Sluggett, John T. (See Goeggel, Francis, assignor.)						
Slutz, H. V. & T. (See Geeron, John, assignor.)						
Sly, George E., Glencoe, Minn. Sleigh	351,215	Oct. 19	1587	416	37	304
Sly, Morgan H., and P. F. Wood; said Sly assignor to said Wood, Adrian, Mo. Folding wash-bench	352,369	Nov. 9	921	247	37	637
Small, Edward, Baltimore, Md., assignor to Metal Seaming Company of Baltimore City. Tool for interlocking the edges of metallic plates	355,108	Dec. 28	2112	555, 556	37	1120
Small, Frank E. (See Small, Frederick E. and F. E.)						
Small, Frederick E., Revere, Mass., and F. E. Small, Brooklyn, N. Y. Valve	348,590	Sept. 7	78	23	36	1062
Small, Henry J., Brainerd, Minn. Lathe for turning journals of car-axles	349,908	Sept. 28	1883	487	36	1423
Small, Henry J., and J. McNaughton, Brainerd, Minn. Liquid-pressure generator	347,897	Aug. 24	2017	534, 535	36	861
Small, Herbert M., Baldwinsville, Mass. Carpet-stretcher	351,664	Oct. 26	2267	587	37	434
Small, Herbert M., Baldwinsville, Mass. Covering for pipes, boilers, &c	353,981	Dec. 7	482	131	37	1094
Small, Isaac D., assignor of one-half to W. Myers, Olena, Ohio. Feed-water heater	344,686	June 29	2702	702	35	1529
Small, William H. (See De Vault, William H., assignor.)						
Smalley, Edmund, Sparkill, N. Y. Door-check	346,235	July 27	2044	526	36	392
Smalley, Joseph, assignor of one-half to J. H. Gomersall, Philadelphia, Pa. Knitting-machine	334,681	Jan. 19	1681	449	34	325
Smalstig, Fredrick C., Allegheny City, Pa. Cigar-bunching machine	340,380	Apr. 20	1843	473	35	343
Smalstig, Fredrick C., Allegheny City, Pa. Cigar-bunching machine	347,257	Aug. 10	1077	288	36	671
Smalstig, Fredrick C., Allegheny, Pa. Cigar-bunching machine	352,012	Nov. 2	410	111, 112	37	534
Smart, Charles W., Carbondale, Ill. Sewing-machine treadle	347,836	Aug. 24	1931	512	36	847
Smart, Charles W., assignor to himself and W. H. Hudson, Jr., Carbondale, Ill. Nut-lock	342,648	May 25	2345	619	35	964
Smart, Hezekiah, *et al.* (See Springer, William N., assignor.)						
Smead, Isaac D., Toledo, Ohio. Dry closet	352,157	Nov. 9	642	169, 170	37	584
Smedes, Levi K., Mount Vernon, assignor to H. E. Taylor, Brooklyn, N. Y. Coffin	354,749	Dec. 21	1614	427	37	1314
Smerdon, William H., Taunton, Mass. Shingling-bracket	342,649	May 25	2345	619	35	964
Smethells, John F., Chicago, Ill. Bilge-water indicator	333,686	Jan. 5	252	68	34	49
Smiley, De Witt C., Jr. (See Illingworth and Smiley.)						
Smiley, Thomas J. L., and C. H. Stombs, San Francisco, Cal. Automatic cut-off for gas-burners	340,381	Apr. 20	1846	473, 474	35	344

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Smith, A. Beverly, Philadelphia, Pa. Stapling-machine	335,154	Feb. 2	74	20, 21	34	454
Smith, A. Hyatt. (See Smith, Maurice, assignor.)						
Smith, Aaron F., Lynn, Mass. Heel-trimmer	341,064	May 4	123	37	35	528
Smith, Aaron F., Lynn, Mass. Heel-trimming machine	341,065	May 4	125	37	35	528
Smith, Aaron F., Lynn, Mass. Heel-trimming machine	354,442	Dec. 14	1146	306, 307	37	1223
Smith, Adolph T., New York, N. Y. Electric gas-burner	349,533	Sept. 21	1366	355	36	1316
Smith, Albert, Conway, Iowa. Hay-loader	347,389	Aug. 17	1279	340	36	717
Smith, Albert, Bradford, and H. W. Whitehead, Leeds, county of York, England. Screw-gill drawing machinery	347,655	Aug. 17	1673	445, 446	36	791
Smith, Albert E. (See Smith, Jerome T. and A. E.)						
Smith, Albert U., Seymour, Conn. Buckle	345,082	July 6	396	100	36	72
Smith, Alexander, Palmyra, N. Y. Flask-weight for molds	342,882	June 1	153	39	35	1034
Smith, Alexander G., assignor to Withington, Cooley & Co., Jackson, Mich. Swaging-machine	335,320	Feb. 2	326	85, 86	34	500
Smith, Algernon D. (See Flint, Benjamin F., assignor.)						
Smith, Alonzo D., New Woodstock, N. Y. Truss-pad	341,176	May 4	287	82	35	557
Smith, Alonzo F., Milwaukee, Wis. Spelling-board	336,266	Feb. 16	1705	444	34	755
Smith, Alphonso B. (See Strong and Smith.)						
Smith, Alphonso B., assignor to S. Pattee, San Francisco, Cal. Reciprocating propeller	341,955	May 18	1351	361	35	776
Smith, Amanda R., Prophetstown, Ill. Splasher-holder	338,309	Mar. 23	1926	507	34	1297
Smith, Andrew. (See Hansen and Smith.)						
Smith, Andrew, *et al.* (See Smith, Henry H., assignor.)						
Smith, Andrew H., *et al.* (See Barton, Richard T., assignor.)						
Smith, Andrew L. (See Bowker, Cole, and Smith.)						
Smith, Andrew L., Geneva, N. Y. Show-case for holding spectacles and eyeglasses	348,354	Aug. 31	2665	718	36	990
Smith, Anton, Lorain, Ohio. Apparatus for loading vessels	348,478	Aug. 31	2849	767	36	1025
Smith, Arthur P., Pipe Stone, Minn. Composition of matter to be used in soldering	354,843	Dec. 21	1733	.....	37	1338
Smith, Benjamin B. (See Bennett and Smith.)						
Smith, Benjamin C. (See Adee and Smith.)						
Smith, Benjamin C., Brooklyn, assignor to F. Adee & Co., New York, N. Y. Stop-cock box	334,137	Jan. 12	893	244	34	174
Smith, Benjamin F., Chicago, Ill. Automatic plug for wash-bowls and bath-tubs	347,390	Aug. 17	1280	341	36	717
Smith, Benjamin T., J. C. Steinmetz, and C. J. Petry, St. Louis, Mo. Trunk-top	339,227	Apr. 6	156	42	35	30
Smith, Benjamin W., Rockport, Ind. Car-coupling	352,582	Nov. 16	1189	322	37	695
Smith, Carlos H., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Watch-movement packing-box	339,943	Apr. 13	1210	301	35	222
Smith, Carter. (See Gray, Josiah, assignor.)						
Smith, Charles, assignor to Eastwood Wire Manufacturing Company, Belleville, N. J. Dandy-roll for use in paper-making	352,493	Nov. 9	1072	288	37	667
Smith, Charles A., *et al.* (See Fleck, Joseph V., assignor.)						
Smith, Charles A. (See Sherwood and Smith.)						
Smith, Charles A. (See Spencer and Smith.)						
Smith, Charles A., Jackson, Mich. Feeding mechanism for middlings-purifiers	339,028	Mar. 30	2959	782, 783	34	1484
Smith, Charles A., Jackson, Mich. Feeding device for middlings-purifiers	339,029	Mar. 30	2961	783, 784	34	1484
Smith, Charles A., Dresden, N. Y. Thrashing-machine	340,632	Apr. 27	2194	578	35	413
Smith, Charles F. (See Chase and Smith.)						
Smith, Charles F. (See Gérard and Smith.)						
Smith, Charles F., Fitchburg, Mass. Ice-machine	345,548	July 13	1075	274	36	199
Smith, Charles F., Fitchburg, Mass. Covering for pipes and surfaces in ice-machines, &c.	345,549	July 13	1076	274	36	199
Smith, Charles F., Fitchburg, Mass. Ice-forming box for ice-machines	345,550	July 13	1076	275	36	199
Smith, Charles G., Washington, D. C. Leveling-instrument	338,791	Mar. 30	2613	688	34	1422
Smith, Charles H., *et al.* (See Phillips, Francis V., assignor.)						
Smith, Charles H., assignor of one-half to E. D. Ives, Norfolk, Conn. Making axle-arms	352,492	Nov. 9	1072	288	37	667
Smith, Charles H., assignor to O. B. North & Company, New Haven, Conn. Snap-hook	343,862	June 15	1572	399	35	1306
Smith, Charles H., assignor to O. B. North & Co., New Haven, Conn. Snap-hook	353,889	Dec. 7	344	92	37	1070
Smith, Charles H., assignor to O. B. North & Co., New Haven, Conn. Snap-hook	353,890	Dec. 7	345	92	37	1070
Smith, Charles H., assignor to O. B. North & Co., New Haven, Conn. Snap-hook	353,891	Dec. 7	347	92	37	1070
Smith, Charles W., Belmond, Iowa. Hand-truck	342,978	June 1	283	74	35	1058
Smith, Chipman G. (See Walsh and Smith.)						
Smith, Christian N., Dayton, Ohio. Middlings-purifier	337,207	Mar. 2	432	113	34	1006
Smith, Clayton P., Oakland, assignor of one-third to C. C. Cottrell, San Francisco, Cal. Wool-scouring machine	342,812	June 1	51	13	35	1016
Smith, Clayton W. (See Smith, Job E. W. and C. W.)						
Smith, Cyrenus H., and J. S. Millikin, Butte City, Mont. Ter. Cartridge-loader	344,206	June 22	2054	526	35	1401
Smith, Cyril A., and R. P. Marble, Attleborough, Mass. Suspenders and spring button-fastener	351,811	Nov. 2	115	32	37	479
Smith, D. Johnstone, and D. Sinclair, Glasgow, county of Lanark, Scotland. Telephone-check apparatus	355,226	Dec. 28	2289	603, 604	37	1456
Smith, Daniel, Santa Rosa, Cal. Chair	350,274	Oct. 5	238	69	37	50
Smith, Daniel C., Albany, N. Y. Coupling for round belting	342,850	June 1	103	26	35	1025
Smith, Daniel J., assignor of two-thirds to S. A. Conklin and W. C. Weston, Canton, Ohio. Cloth-s drier	349,410	Sept. 21	1197	310	36	1283
Smith, Daniel W., Long Lake, Mich. Sawing-machine	334,297	Jan. 12	1152	308	34	222
Smith, David E., Mount Kisco, N. Y. Music-holder	343,403	June 8	942	235	35	1186
Smith, David R. (See McCreary and Smith.)						
Smith, Delos A., Locke, Mich. Stove-pipe thimble	339,701	Apr. 13	893	220	35	164
Smith, Dewane B. (See Childs and Smith.)						
Smith, Dwight B., Vevay, Ind. Pen and brush holder	340,382	Apr. 20	1848	474	35	344
Smith, E. A. (See Seegmueller, Charles, assignor.)						
Smith, E. D. (See Dion, Peter, assignor.)						
Smith, E. T., *et al.* (See Platt, Albert L., assignor.)						
Smith, Edward, Camptown, Pa. Broom and tool holder	343,926	June 15	1649	423	35	1322
Smith, Edward C., Brooklyn, N. Y. Rail-sawing machine	340,682	Apr. 27	2267	597	35	424
Smith, Edward H., Rutherford, Cal. Safety-hook	348,791	Sept. 7	340	91	36	1111
Smith, Edward S. (See Pilkington, Joseph H., assignor.)						
Smith, Edward S., Waterbury, Conn. Buckle or clasp	337,708	Mar. 9	1113	287	34	1132
Smith, Edward S., Waterbury, Conn. Clasp or buckle	338,792	Mar. 30	2615	689	34	1423
Smith, Edward S., Waterbury, Conn. Heel-protector	352,717	Nov. 16	1382	374	37	732
Smith, Edward S., Ovid, Mich. Vehicle-spring	338,564	Mar. 23	2276	597	34	1357
Smith, Edwin. (See Smith, George, E., and N., Jr.)						
Smith & Egge Manufacturing Company. (See Egge, Frederick, assignor.)						
Smith, Eldridge J., Washington, D. C. Chair	348,244	Aug. 31	2529	679	36	961

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Smith, Emery P., assignor of two-thirds to C. E. Sayre, Chicago, Ill., and T. E. Drake, Lebanon, Ohio. Veterinary incisor-cutter	341,956	May 18	1353	361	35	776
Smith, Emery P., assignor of two-thirds to C. E. Sayre, Chicago, Ill., and T. E. Drake, Lebanon, Ohio. Veterinary molar-cutter	341,957	May 18	1353	362	35	776
Smith, Emmet L., assignor of one-half to C. H. Higby, Jackson, Mich. Adjustable bracket-lamp support	342,650	May 25	2346	619	35	964
Smith, Eugene C., New York, N. Y. Belt-fastener	338,565	Mar. 23	2277	597	34	1358
Smith, Eugene C., St. Louis, Mo. Steam-boiler	343,258	June 8	706	175	35	1144
Smith, Erwin J., *et al.* (See Clark, William W., assignor.)						
Smith, Evelyn L., New Haven, and E. A. Hitchcock, Waterbury, Conn. Manufacture of watch-crowns	335,846	Feb. 9	1073	283	34	640
Smith, Fernando B., Canton, Ohio. Handle	334,993	Jan. 26	2080	555	34	406
Smith, Frank A., Steelton, Pa. Ice-making and refrigerating machine	349,064	Sept. 14	725	185	36	1183
Smith, Frank B., assignor of one-half to E. B. Loveland, North Springfield, Mo. Track-clearer	336,445	Feb. 16	1954	512	34	801
Smith, Frank G., *et al.*, trustees. (See Cole, William R., assignor.)						
Smith, Frank R., Tomah, Wis. Stump-extractor	352,370	Nov. 9	922	240	37	637
Smith, Frank W., Leominster, Mass. Book-leaf holder	336,495	Feb. 16	2016	528 / 529	34	812
Smith, Franklin A., Jr., Providence, R. I. Button-fastener	336,167	Feb. 16	1548	408	34	729
Smith, Franklin A., Jr., Providence, R. I. Making buttons	336,955	Mar. 2	97	26, 27	34	943
Smith, Franklin A., Jr., Providence, R. I. Staple-fastener	342,471	May 25	2094	553	35	918
Smith, Franklin A., Jr., Providence, R. I. Button-setting instrument	344,012	June 22	1775	458	35	1352
Smith, Franklin A., Jr., Providence, R. I. Button-fastener	345,813	July 20	1460	378	36	275
Smith, Frederick A., Cleveland, Ohio, assignor to Hotchkiss & Upson Company, Farmington, Conn. Making split bolts	340,683	Apr. 27	2268	597	35	425
Smith, Frederick W. B., Greenleaf, Kans. Safety fire-guard burner and extinguisher	350,021	Sept. 28	2040	526	36	1451
Smith, Friend W., Jr., and S. S. Williamson, Bridgeport, Conn. Button-hole-sewing attachment for sewing-machines	347,133	Aug. 10	906	241	36	640
Smith, George, assignor of one-half to W. H. O'Kane, Rochester, N. Y. Alarm-signal for railway-crossings	335,643	Feb. 9	782	207 / 208	34	587
Smith, George A., Marshalltown, Iowa. Stock-car	353,982	Dec. 7	483	132	37	1094
Smith, George A., and J. G. Van Orman, Marshalltown, Iowa. Stock-car	353,983	Dec. 7	484	132	37	1095
Smith, George, E., and N., Jr., Thrapston, county of Northampton, England. Securing pulleys to shafts	353,329	Nov. 30	2237	599	37	909
Smith, George H., Haverstraw, N. Y. Evaporating-pan for salt, &c	350,999	Oct. 19	1301	341	37	251
Smith, George K., Chicago, Ill. Grinding-mill	335,391	Feb. 2	425	109 / 110	34	517
Smith, George L., Wellesley, Mass. Drying-board	346,507	Aug. 3	74	19	36	474
Smith, George L., Newark, N. J. Gag-runner	351,812	Nov. 2	116	32	37	480
Smith, George T., Jackson, Mich. Device for tightening bolting-cloth	335,155	Feb. 2	78	21	34	454
Smith, George T., Jackson, Mich. Flour-bolt	335,543	Feb. 2	627	164 / 165	34	552
Smith, George T., Jackson, Mich. Brushing mechanism for reels	335,641	Feb. 9	778	206	34	587
Smith, George T., Jackson, Mich. Flour-bolt	335,642	Feb. 9	779	206 / 207	34	587
Smith, George T., Jackson, Mich. Clasp for bolting-cloths	339,025	Mar. 30	2956	781	34	1484
Smith, George T., Jackson, Mich. Flour-bolt	339,026	Mar. 30	2957	782	34	1484
Smith, George T., Jackson, Mich. Clasp for attaching bolt-cloths	339,027	Mar. 30	2958	782	34	1484
Smith, George W. (See Hamlin and Smith.)						
Smith, George W., assignor of one-half to J. J. Downing, H. and G. U. Reitenour, Union City, Ind. Post-hole auger	338,648	Mar. 23	2391	630	34	1377
Smith, George W., assignor to D. T. Hunt, Rochester, and P. Smith, New York, N. Y. Mail-bag	353,645	Nov. 30	2720	726	37	998
Smith, George W. B., Pomona, Ill. Tension device for grain-binders	352,429	Nov. 9	998	269	37	653
Smith, George Y., Cedar Rapids, Iowa. Cinder-hopper	349,009	Sept. 14	652	168	36	1170
Smith, George Y., and E. A. Charles, Cedar Rapids, Iowa. Stump-extractor	349,008	Sept. 14	649	168	36	1170
Smith, H. M. (See Crowe, Charles P., assignor.)						
Smith, H. Clay. (See Everett, Robert, assignor.)						
Smith, H. Julius, Mountain View, N. J. Dynamo-electric igniting-machine	353,827	Dec. 7	245	65	37	1051
Smith, Hamilton E., New York, N. Y. Ironing-machine	345,737	July 20	1352	352	36	256
Smith, Hamilton E., New York, N. Y. Starching-machine	345,995	July 20	1713	441	36	320
Smith, Hamilton E., New York, N. Y. Ironing-machine	345,996	July 20	1714	442	36	320
Smith, Harman H., Navarre, assignor of one-half to D. P. Parks, Bolivar, Ohio. Maul and fence-post driver	335,544	Feb. 2	631	166	34	553
Smith, Harry W., Newark, N. J. Feeder for polishing material	334,296	Jan. 12	1149	307 / 308	34	221
Smith, Heman S., Brooklyn, N. Y. Machine for cutting lumber	342,939	June 1	234	60, 61	35	1048
Smith, Henry F., and S. Fawcett, Rochester, N. Y. Die for making blanks for pipe-tongs	343,155	June 1	553	139 / 140	35	1107
Smith, Henry H., Wilmington, N. C. Purifying water	337,026	Mar. 2	199	.....	34	962
Smith, Henry H., assignor of two-thirds to A. Smith and L. Hansen, Wilmington, N. C. Making insecticides, &c	338,110	Mar. 16	1666	.....	34	1239
Smith, Henry J., assignor to Bryce Brothers and G. Duncan & Sons., Pittsburg, Pa. Glass slipper	351,216	Oct. 19	1588	416 / 417	37	304
Smith, Henry R. (See Fox, Frank A., assignor.)						
Smith, Henry W., St. Louis, Mo. Removable and adjustable awning	345,183	July 6	528	135	36	96
Smith, Herman C., and W. M. Bruce, Bertrand, Nebr. Grain-separator	351,217	Oct. 19	1589	417	37	304
Smith, Hervey. (See Blickensderfer and Smith.)						
Smith, Hervey, Erie, Pa. Conveyer apparatus	340,633	Apr. 27	2195	578	35	413
Smith, Hiram and J. H., Adrian, assignor of one-fourth to H. W. Bordwell, Jackson, Mich. Harvester	343,078	June 1	428	110	35	1085
Smith, Hiram M., Richmond, Va. Machine for cleaning peanuts	350,326	Oct. 5	302	86	37	61
Smith, Howard M., St. Louis, Mo. Device for ejecting sparks	334,202	Jan. 12	1009	268	34	195
Smith, Howard M., St. Louis, Mo. Exhaust-nozzle for locomotives	339,226	Apr. 6	155	41	35	30
Smith, Irvin L., Montreal, Quebec, Canada. Baby-carriage	350,162	Oct. 5	89	25	37	19
Smith, J. Finley. (See Verbryck, Samuel A., assignor.)						
Smith, James. (See Bacon, Clovis N., assignor.)						
Smith, James, Fruitland Park, (near Leesburg,) Fla. Combined railway sleeper and chair	341,286	May 4	441	122	35	586
Smith, James, Cleveland, Ohio. Fire-proof wall and ceiling	345,001	July 6	298	74	36	54
Smith, James, Dresden, N. Y. Valve for steam-engines	350,606	Oct. 12	713	194	37	137
Smith, James E., New York, assignor of three-eighths to A. W. Le Furge and F. Buckley, Brooklyn, N. Y. Gas-generator	340,634	Apr. 27	2198	578 / 579	35	413
Smith, James F., Danville, Ill. Cultivator	335,644	Feb. 9	784	208	34	588

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Smith, James F., Danville, Ill. Cultivator	354,260	Dec. 14	908	240	37	1178
Smith, James G. (See Spencer, James C., assignor.)						
Smith, James H. (See Crary, Hamilton, assignor.)						
Smith, James H. (See Hall and Smith.)						
Smith, James H., Chicago, Ill. Photographer's chair	354,259	Dec. 14	906	239	37	1177
Smith, James L., *et al.* (See Goff, Daniel, assignor.)						
Smith, James L., Princeton, Ind. Broom and brush cabinet	339,702	Apr. 13	894	220	35	164
Smith, James M. (See Tefft and Smith.)						
Smith, James M., Sycamore, Ill., assignor of one-half to M. W. Harrington, Ann Arbor, Mich. Armor for rubber hose	338,310	Mar. 23	1927	507	34	1297
Smith, James T., New York, N. Y. Umbrella or parasol	338,566	Mar. 23	2278	597	34	1338
Smith, James T., New York, N. Y. Parasol or umbrella	343,079	June 1	429	110	35	1085
Smith, James T., New York, N. Y. Parasol or umbrella	343,080	June 1	431	111	35	1085
Smith, James T., New York, N. Y. Umbrella-support	350,571	Oct. 12	954	256	37	181
Smith, James T., New York, N. Y. Umbrella or parasol	353,172	Nov. 23	2017	540	37	861
Smith, James T. New York, N. Y. Umbrella or parasol	353,173	Nov. 23	2018	541	37	861
Smith, James T., New York, N. Y. Umbrella or parasol tie	353,764	Dec. 7	154	43	37	1035
Smith, James T., Baltimore, Md. Machine for making thimbles for bolts	338,567	Mar. 23	2279	598	34	1358
Smith, James V. (See Stine and Smith.)						
Smith, Jesse C., *et al.* (See Fischer, Joseph B., assignor.)						
Smith, Jesse H. (See Smith, Hiram and J. H.)						
Smith, Jerome T. and A. E., Scotland, Dak. Ter. Grain-separator	347,391	Aug. 17	1281	341	36	717
Smith, Job E. W. and C. W., Jasper, Fla. Plow	353,828	Dec. 7	247	66	37	1051
Smith, Joel M., Mount Pleasant, Iowa. Ditching-machine	343,613	June 15	1237	310, 311	35	1245
Smith, John, *et al.* (See Wells, William W., assignor.)						
Smith, John, Kansas City, Mo. Coal-bucket	335,249	Feb. 2	231	61	34	481
Smith, John A., *et al.* (See Champion, John P., assignor.)						
Smith, John A., Shoe Heel, N. C. Plow	346,780	Aug. 3	405	112	36	539
Smith, John A., New York, N. Y. Exercising-machine	353,089	Nov. 23	1900	511	37	838
Smith, John A. V., Manchester, N. H. Flier	340,383	Apr. 20	1848	474	35	344
Smith, John A. V., Manchester, N. H. Speeder-flier	350,782	Oct. 12	954	256	37	181
Smith, John E., New York, N. Y. Signal-call telegraph-box	343,738	June 15	1423	355, 356	35	1278
Smith, John E. and F. A. Ballin, Detroit, Mich. Railway-signal	344,207	June 22	2055	526	35	1402
Smith, John F., Pontiac, Mich. Harness-ring	338,568	Mar. 23	2280	598	34	1358
Smith, John H. (See Blackhall, Edward W., assignor.)						
Smith, John H. (See Field, Hiram, assignor.)						
Smith, John H., Buffalo, N. Y. Cash-check device	346,955	Aug. 10	652	174	36	593
Smith, John H., Buffalo, N. Y., and E W. Blackhall, Toronto, Ontario, Canada. Bill-head-printing device	339,339	Apr. 6	322	81	35	61
Smith, John J. C., Passaic, N. J., assignor to J. H. Cheever, New York, N. Y. Manufacture of electric cables	343,083	June 1	437	111	35	1086
Smith, John J. C. and M., Passaic, N. J.; said John J. C. Smith assignor to J. H. Cheever, New York, N. Y. Making electric cables	343,081	June 1	431	111	35	1085
Smith, John J. C. and M., Passaic, N. J.; said John J. C. Smith assignor to J. H. Cheever, New York, N. Y. Multiple electric cable	343,082	June 1	434	111	35	1086
Smith, John M., Kansas City, Mo. Seal-lock	333,558	Jan. 5	79	22, 23	34	17
Smith, John M., Kansas City, Mo. Seal-lock for car-doors	335,250	Feb. 2	232	61	34	482
Smith, John M., Kansas City, Mo. Seal-lock	337,879	Mar. 16	1339	347	34	1179
Smith, John M., Kansas City, Mo. Seal-lock	339,490	Apr. 6	543	131	35	100
Smith, John P. (See Evans and Smith.)						
Smith, John S., Jackson, Mich. Cutting-table for file-machines	352,632	Nov. 16	1263	340	37	708
Smith, John S., and M. H. Motes, Hamburg, Pa. Automatic car-coupling	348,479	Aug. 31	2851	767	36	1025
Smith, John T., Rockfall, Conn. Lock for revolvers	336,021	Feb. 9	1332	348	34	681
Smith, John T., Rockfall, Conn. Revolver	346,327	July 27	2175	558	36	416
Smith, John W., Newport, R. I. Dental tool	335,780	Feb. 9	984	260	34	634
Smith, John W., Boston, Mass., and J. K. Priest, Nashua, N. H. Hair-clipper	347,207	Aug. 10	1009	268	36	659
Smith, Jonas M. (See Walker and Smith.)						
Smith, Joseph. (See Oppmann and Smith.)						
Smith, Joseph D., Rising City, Nebr. Filter	333,896	Jan. 5	539	147	34	101
Smith, Joseph N., Windsor, Ontario, Canada. Dash-rail	339,491	Apr. 6	544	132	35	101
Smith, Joseph P. (See Williams and Smith.)						
Smith, Joseph P., Glastonbury, assignor of one-half to O. J. Smith, Bridgeport, Conn. Trace-fastener	345,330	July 13	736	186	36	139
Smith, Josephine L., Davenport, Iowa. Household-press	336,956	Mar. 2	98	27	34	944
Smith, Julius, assignor of one-half to A. S. Goodell, Rock Falls, Ill. Barrel-churn	344,503	June 29	2469	634	35	1483
Smith, Kirk A., and J. E. Woodard, Kalamazoo, Mich. Detachable guide-bearing for reciprocating rods of windmills	338,793	Mar. 30	2616	689	34	1423
Smith, Leland, Coxsackie, N. Y. Poultry drinking-fountain	351,888	Nov. 2	226	63	37	500
Smith, Lewis H., Albany, N. Y. Vessel for measuring and transferring liquids	341,066	May 4	126	38	35	528
Smith, Lewis M., Canandaigua, N. Y. Machine for cleaning grain	345,997	July 20	1715	442	36	321
Smith, Louis A., *et al.* (See Snowberger, Jacob, assignor.)						
Smith Machine Company, H. B. (See Rich, Williard G., assignor.)						
Smith, Margret, Baltimore, Md. Satchel-holder	337,709	Mar. 9	1114	287	34	1132
Smith, Marion N., Troy, Pa. Halter	352,371	Nov. 9	924	248	37	637
Smith, Mark A., and C. F. Yaeger, Evansville, Ind.; said Smith assignor to said Yaeger. Broom	355,223	Dec. 28	2286	602	37	1455
Smith, Mark A., and C. F. Yaeger, Evansville, Ind.; said Smith assignor to said Yaeger. Broom-wiring machine	355,224	Dec. 28	2287	602	37	1455
Smith, Mark A., and C. F. Yaeger, Evansville, Ind.; said Smith assignor to said Yaeger. Wire-bound broom	355,225	Dec. 28	2288	603	37	1456
Smith, Martin V., Tyrone, Pa. Gas-producer	346,781	Aug. 3	406	112	36	540
Smith, Maurice, assignor of one-half to A. H. Smith, Janesville, Wis. Tobacco-transplanter	335,724	Feb. 9	899	237	34	608
Smith, Maurice, assignor of one-half to A. H. Smith, Janesville, Wis. Tobacco-transplanter	345,184	July 6	529	135, 136	36	96
Smith, Maurice M., Washington, D. C. Brick for ventilation	347,392	Aug. 17	1282	341	36	717
Smith, Melvin L., Batavia, N. Y. Wheel-hub	343,501	June 8	1077	269	35	1209
Smith, Michael. (See Smith, John J. C. and M.)						
Smith, Michael, Passaic, N. J. Vulcanizing the insulating covering of electric conductors	343,084	June 1	438	112	35	1086
Smith, Michael H., Halifax, county of York, England. Electric tramway system	348,792	Sept. 7	341	91, 92	36	1111
Smith, Michael J., New York, N. Y. Air-vent valve	338,196	Mar. 16	1777	464	34	1262
Smith Middlings Purifier Company, George T. (See Holt, Noah W., assignor.)						
Smith, Minard M., and F. Armbrust, New York, N. Y. Machine for cutting glass	351,219	Oct. 19	1593	418	37	305

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Smith, Myers & Schnier. (See Smith and Myers, assignors.)						
Smith, Nathaniel. Jr. (See Smith, George, E., and N., Jr.)						
Smith, Obediah, Bloomington. assignor of one half to E. R. Sutton, Forest, Ill. Motor	351,000	Oct. 19	1302	342	37	251
Smith, Obediah J., Iola, Kans. Washing-machine	333,559	Jan. 5	80	23	34	17
Smith, Oberlin, Bridgeton, N. J. Drill-press	336,598	Feb. 23	2161	565	34	844
Smith, Oberlin, Bridgeton, N. J. Tool for drill-presses	336,762	Feb. 23	2389	626	34	887
Smith, Oberlin, Bridgeton, N. J. Press for cutting and drawing sheet metal	341,353	May 4	532	147, 148	35	601
Smith, Oliver J. (See Smith, Joseph P., assignor.)						
Smith, Oren B. (See Monaghan, John F., assignor.)						
Smith, Orson W., Charlevoix, Mich. Sled-brake	352,984	Nov. 23	1740	466	37	808
Smith, Orville T., Brooklyn, N. Y. Button	345,814	July 20	1461	378	36	275
Smith, Orville T., Brooklyn, N. Y. Button	345,866	July 20	1532	396	36	287
Smith, Orville T., Brooklyn, N. Y. Manufacture of buttons	354,662	Dec. 21	1487	395	37	1290
Smith, Parker P., Pittsburg, Pa. Railway-rail fastening	353,601	Nov. 30	2641	705	37	985
Smith, Paul C., Topeka, Kans. Composition of matter for paving	339,340	Apr. 6	324	.....	35	61
Smith, Philip, assignor of one-half to J. Cooper, New York, N. Y. Combined match-box and cigar-holder	337,880	Mar. 16	1340	347	34	1180
Smith, Philip J., Long Island City, and J. F. McEvoy, Brooklyn, N. Y. Convertible street-car	351,130	Oct. 19	1474	386	37	282
Smith, Phillip, *et al.* (See Smith, George W., assignor.)						
Smith, R. Tynes, *et al.* (See Pillings, George T., assignor.)						
Smith, Reuben F., Atchison, Kans. Gas-engine	345,998	July 20	1716	442, 443	36	321
Smith, Reuben F., Pleasant Hill, Ala. Gas-engine	347,656	Aug. 17	1674	446	36	791
Smith, Richard. (See Weiderman, Charles H., assignor.)						
Smith, Richard, Sherbrooke, Quebec, Canada. Paper-making machine	350,607	Oct. 12	715	194	37	138
Smith, Richard, Sherbrooke, Quebec, Canada. Doctor for paper-calender rolls	352,665	Nov. 16	1311	353, 354	37	718
Smith, Richard, Sherbrooke, Quebec, Canada, assignor of one-half to Fall Mountain Paper Company, Bellows Falls, Vt. Automatic guide-roll attachment for paper-machines	339,703	Apr. 13	895	220	35	164
Smith, Richard, Sherbrooke, Quebec, Canada, assignor of one-half to Fall Mountain Paper Company, Rockingham, Vt. Elevator	343,404	June 8	943	236	35	1186
Smith, Robert. (See Morrison and Smith.)						
Smith, Robert, Lafayette, Ill. Check-row corn-planter	344,550	June 29	2535	655	35	1495
Smith, Robert B. (See Lytle, Albert E., assignor.)						
Smith, Robert W., Toledo, Ohio. Making steel eye-bars	339,492	Apr. 6	545	132	35	101
Smith, Roland H., Pittsburg, Pa. Manufacturing gas	341,354	May 4	536	148	35	601
Smith, Roland H., Pittsburg, Pa. Hektograph	342,141	May 18	1606	430	35	823
Smith, Roland H., Pittsburg, Pa. Production of hektography	342,142	May 18	1609	430	35	824
Smith, Roland H. and W. F., Pittsburg, Pa. Gas-distribution	342,143	May 18	1610	430, 431	35	824
Smith, Roswell T., Nashua, N. H. Key-board player for musical instruments	346,236	July 27	2045	527	36	393
Smith, Roswell T., Nashua, N. H. Key-board attachment for musical instruments	346,237	July 27	2049	527	36	393
Smith, Roswell T., Nashua, N. H. Key-board attachment for musical instruments	346,238	July 27	2051	527, 528	36	393
Smith, Roswell T., Nashua, N. H. Key-board player	346,239	July 27	2055	528	36	394
Smith, Roswell T., Nashua, N. H. Key-board player	347,134	Aug. 10	908	242, 243	36	640
Smith, Ruben J. (See Webster and Smith.)						
Smith, Rudolph C., Yonkers, N. Y. Controlling the valves of elevators	334,907	Jan. 26	1968	523, 524	34	386
Smith, Rudolph C., Yonkers, assignor to Otis Brothers & Co., New York, N. Y. Valve for hydraulic elevators	339,816	Apr. 13	1041	258	35	190
Smith, S. Fred. (See Bi kford, John H., assignor.)						
Smith, S. Henry, assignor of one-half to W. W. Norman, Benton, Mo. Lamp-bracket	354,261	Dec. 14	910	240	37	1178
Smith, Samuel, assignor of two-thirds to A. D. Homman and H. D. Pontius, Silver Lake, Ind. Heating attachment for stoves	349,534	Sept. 21	1368	355	36	1317
Smith, Samuel C., Lowell, Mass. Roller-skate	341,067	May 4	128	38	35	528
Smith, Samuel E., Brooklyn, N. Y. Changeable button	338,111	Mar. 16	1667	433	34	1239
Smith, Samuel E., assignor of one-half to F. H. Griggs and J. W. Green, Davenport, Iowa. Potato-digger	339,704	Apr. 13	897	221	35	164
Smith, Samuel J., Merrimacport, Mass. Machine for coating emery-belts	345,083	July 6	397	100	36	72
Smith, Samuel R., and E. Myers, Cincinnati, Ohio. Gang-edger	343,405	June 8	945	236	35	1186
Smith, Samuel R., and E. Myers, assignors to Smith, Myers & Schnier, Cincinnati, Ohio. Gang-edger	348,065	Aug. 24	2263	606	36	907
Smith & Smart. (See Spencer, John E., assignor.)						
Smith, Sidney, Cambridge, Mass. Churn	339,944	Apr. 13	1212	301	35	222
Smith, Sidney, Cambridge, Mass. Grate	350,952	Oct. 19	1197	319	37	233
Smith & Sons Carpet Company, Alexander. (See Skinner, Halcyon, assignor.)						
Smith, Stephen G., Hannibal, Mo. Vehicle-spring	335,645	Feb. 9	785	208	34	588
Smith, Stephen G., Hannibal, Mo. Thill-coupling	337,710	Mar. 9	1115	288	34	1132
Smith, Stephen L., St. Louis, Mo. Ice planing and ridging machine	349,737	Apr. 27	2349	618	35	439
Smith, Stephen N., Providence, R. I. Lacing-hook	346,176	July 27	1959	505	36	375
Smith, Stephen T. (See Birch, Joseph W., assignor.)						
Smith, Theron L., *et al.* (See Wood, Charles H., assignor.)						
Smith, Theron L., North Attleborough, Mass. Bracelet	342,396	May 25	1986	524	35	898
Smith, Thomas C., Brooklyn, N. Y. Water-filter	341,068	May 4	129	38	35	529
Smith, Thomas C., Brooklyn, N. Y. Water-cooler	342,397	May 25	1987	525	35	899
Smith, Thomas H., Rome City, Ind. Bag-holder	347,393	Aug. 17	1283	341	36	717
Smith, Thomas L., and W. S. Doig, Brooklyn, N. Y.; said Smith assignor to said Doig. Box-nailing machine	342,230	May 18	1716	456, 457	35	844
Smith, Thomas L., and W. S. Doig, Brooklyn, N. Y.; said Smith assignor to said Doig. Box-nailing machine	342,268	May 18	1771	469, 470, 471	35	853
Smith, Uzziel P., Chicago, Ill. Elevator	344,687	June 29	2703	702	35	1529
Smith, W. Dean, Brooklyn, N. Y. Vehicle	334,908	Jan. 26	1969	524	34	387
Smith, Walter, *et al.* (See Gould, Claude C., assignor.)						
Smith, Walter D. (See Paul, William H., assignor.)						
Smith, Walter F., Philadelphia, Pa. Coupling for electrical conductors	353,984	Dec. 7	485	132	37	1095
Smith, Walter J., Philadelphia, Pa. Wood-molding machine	347,970	Aug. 24	2131	568	36	881
Smith, Walton D., Prophetstown, Ill. Plate-glass-window frame	344,418	June 29	2348	604	35	1462
Smith, Wilbert L. (See Brown and Smith.)						
Smith, William, Cicero Ind. Flour scoop and sifter	337,711	Mar. 9	1116	288	34	1132

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Smith, William, San Francisco, Cal. Effluvia-ejector for water-closets	338,794	Mar. 30	2616	689	34	1423
Smith, William, Eaton Rapids, Mich. Buckle attachment for straps	341,958	May 18	1354	362	35	776
Smith, William A., and J. H. Hughes, Woodlawn, Nebr. Hame-coupling	336,763	Feb. 23	2390	626	34	887
Smith, William B., Atlanta, Ga. Grain-cradle	352,372	Nov. 9	925	248	37	638
Smith, William C. (See Brewer and Smith.)						
Smith, William C., New Haven, Conn. Electric alarm apparatus	343,863	June 15	1573	399 / 400	35	1306
Smith, William E., Ansonia, assignor to B. Goodman Manufacturing Company, Bridgeport, Conn. Buckle	337,452	Mar. 9	799	263	34	1077
Smith, William F. (See Smith, Roland H. and W. F.)						
Smith, William G., Minneapolis, Minn. Combined tablet and file	338,795	Mar. 30	2617	689	34	1423
Smith, William H., Canton, Ohio. Regenerator gas-furnace	346,508	Aug. 3	75	19, 20	36	474
Smith, William H., Canton, Ohio. Brick for gas-regenerating furnaces	346,782	Aug. 3	408	112	36	540
Smith, William H., La Crosse, Wis., assignor of one-half to C. H. Schoff, Marshalltown, Iowa. Rotary steam-valve	352,895	Nov. 16	1612	433	37	775
Smith, William J., San Francisco, Cal. Feed-water heater and purifier	349,181	Sept. 14	883	227	36	1213
Smith, William K., Eaton Rapids, Mich. Bag-fastener	351,539	Oct. 26	2083	540	37	400
Smith, William M. (See Caldwell and Smith.)						
Smith, William M., and J. Caldwell, Philadelphia, Pa. Automatic fan	338,311	Mar. 23	1928	507	34	1297
Smith, William N., Bad Axe, Mich. Tricycle	351,942	Nov. 2	311	87	37	515
Smith, William R. (See Hamilton and Smith.)						
Smith, William E., Brentwood, N. H., assignor, by mesne assignments, to J. R. Hamilton, Minneapolis, Minn. Apparatus for cooling or warming the rectum or vagina	341,177	May 4	288	82	35	557
Smith, William S., Chicago, Ill. Sinking shafts through quicksand	340,384	Apr. 20	1849	474 / 475	35	344
Smith, William S., Salem, Oreg. Churn	348,793	Sept. 7	342	93	36	1111
Smith, William T., Providence, R. I. Safety-seal for gas-traps	338,112	Mar. 16	1668	434	34	1239
Smith, William T., Providence, R. I. Electrical attachment for exhibiting devices	339,706	Apr. 13	901	221	35	165
Smith, William T., Baltimore, Md. Lubricator	340,385	Apr. 20	1851	475	35	345
Smith, William T., Bozeman, Ala. Lumber-stacker	348,591	Sept. 7	80	23, 24	36	1062
Smith, William T., London, England, assignor to H. L. Ensign, New York, N. Y. Stereotype-plate and block or bed for the same	336,022	Feb. 9	1314	348	34	682
Smith, William W., assignor of one-half to G. R. Thamer, Chicago, Ill. Drag-saw	349,819	Sept. 28	1772	458	36	1400
Smith, Worthington, assignor of one-half to J. M. Jackson, Troy, Ohio. Apparatus for baking	339,228	Apr. 6	156	42	35	30
Smith, Wright D., assignor to Huyett & Smith Manufacturing Company, Detroit, Mich. Rotary ventilating-fan	339,030	Mar. 30	2963	784	34	1485
Smith, Zwingle H., Prairieville, Wis. Detachable shovel-blade	348,794	Sept. 7	343	93	36	1111
Smitten, Thomas W. F., Brooklyn, N. Y. Multiple pointed pen	337,712	Mar. 9	1117	288	34	1132
Smitten, Thomas W. F., Brooklyn, N. Y. Yoke for connecting pencils and pen-holders	339,705	Apr. 13	900	221	35	165
Smitten, Thomas W. F., Brooklyn, N. Y. Pen and pencil holder	339,817	Apr. 13	1042	259	35	191
Smout, Jules, Guatemala, Guatemala, Central America. Machine for hulling and polishing coffee	333,788	Jan. 5	400	108	34	75
Smyers, Guillaume. (See Ragot and Smyers.)						
Smyth, David M., assignor to Smyth Manufacturing Company, Hartford, Conn. Book-sewing	338,000	Mar. 16	1520	393	34	1212
Smyth, David M., assignor to Smyth Manufacturing Company, Hartford, Conn. Book-sewing machine	338,001	Mar. 16	1521	394	34	1212
Smyth, David M. and J. E., Hartford, Conn. Fastening for carpets, &c	334,138	Jan. 12	894	244	34	174
Smyth, John M., Windsor, Ontario, Canada. Nutmeg-grater	334,298	Jan. 12	1153	308	34	222
Smyth, Joseph E. (See Smyth, David M. and J. E.)						
Smyth Manufacturing Company. (See Smyth, David M., assignor.)						
Smyth, Milton B., Holton, Kans. Index	350,848	Oct. 12	1063	284	37	201
Snapp, Hezekiah L., *et al.* (See Ashby, Daniel S., assignor.)						
Snavely, Thomas, Pontiac, Kans. Listing-cultivator	349,065	Sept. 14	727	185	36	1184
Snedekum, Charles, Bay City, Mich. Fork-drill	337,351	Mar. 2	628	165	34	1042
Snediker, David L. (See Newman, Edwin A., assignor.)						
Snee, John A., West Elizabeth, Pa. Method of and apparatus for regulating the temperature of a substance passing through a line of piping	338,447	Mar. 23	2126	556	34	1331
Snee, John H. (See Snee, William, assignor.)						
Snee, William, West Elizabeth, assignor of one-half to J. H. Snee, Pittsburg, Pa. Apparatus for mixing atmospheric air with natural gas	350,849	Oct. 12	1064	284	37	201
Snell Manufacturing Company. (See Richards, George E., assignor.)						
Snell, Sylvester, Watertown, N. Y. Animal-trap	344,551	June 29	2537	655	35	1496
Snellenburg, Samuel. (See De Beaumont and Snellenburg.)						
Snider, John W., Fairland, Ind. Breeding calendar	351,131	Oct. 19	1475	387	37	283
Snider, Worthington J., Madison City, assignor to H. P. Deuscher, Hamilton, Ohio. Checkrowing attachment	353,646	Nov. 30	2721	726	37	998
Snider, Worthington J., Madison City, assignor to H. P. Deuscher, Hamilton, Ohio. Device for imparting and arresting motion	354,663	Dec. 21	1489	395	37	1290
Sniffen, Samuel F., New York, N. Y. Fender for vehicles	335,646	Feb. 9	787	209	34	588
Snow, C. A., *et al.* (See Radzinsky, Louis D., assignor.)						
Snow, Elmer W. and J. F., Pawtucket, R. I. Combined book-cover and removable leaf	337,027	Mar. 2	200	53	34	962
Snow, Fred W., Hillburn, N. Y. Rail-support	338,796	Mar. 30	2618	690	34	1423
Snow, George K., Watertown, Mass. Collar	336,957	Mar. 2	99	27	34	944
Snow, Gilbert B., Sugar Grove, assignor to W. Deering, Chicago, Ill. Corn harvester and husker	353,384	Nov. 30	2315	619	37	923
Snow, Horace C., Winnipeg, Manitoba, Canada. Ventilating stoves	341,069	May 4	129	38	35	529
Snow, Horace C., Winnipeg, Manitoba, Canada. Stove-grate	349,237	Sept. 14	964	246	36	1229
Snow, James F. (See Snow, Elmer W. and J. F.)						
Snowberger, Jacob, assignor of three-fourths to O. Case, U. G. Kirn, and L. A. Smith, Akron, Ohio. Oiler and wiper for commutators	338,197	Mar. 16	1777	464	34	1262
Snowden & Cowman. (See Carrick, Thomas J., assignor.)						
Snowden, Robert C., Elizabeth, Pa. Shingle	339,945	Apr. 13	1213	302	35	223
Snyder, August, Allegheny, Pa. Cylinder for air and gas compressors	351,665	Oct. 26	2268	587	37	434
Snyder, Charles S., *et al.* (See Iske, Anthony and A., assignors.)						
Snyder, Edwin V. (See Snyder, Theodore H. and E. V.)						
Snyder, Elisha S., Snyder's Mills, W. Va. Inserrible saw-tooth	353,385	Nov. 30	2317	620	37	924
Snyder, Frank J., Boston, Mass. Bottle-washing machine	339,338	Apr. 6	321	81	35	61
Snyder, Gustavus C., New York, N. Y. Automatic candy-shaping machine	347,971	Aug. 24	2132	568	36	882
Snyder, Jacob A., Little Falls, N. Y. Yarn-cleaning device	353,174	Nov. 23	2018	541	37	862
Snyder, Jacob H. (See Kline, Henry, assignor.)						
Snyder, Jacob J., Nashville, Tenn., assignor, by mesne assignments, to himself and S. P. Carrick, Boston, Mass. Boot or shoe	351,889	Nov. 2	227	64	37	500

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Snyder, John H., Helfenstein, Pa. Weather-board gage	339,077	Mar. 30	3021	798	34	1494
Snyder, John H., Richmond, Va. Machine for rolling horseshoe-blank bars	349,182	Sept. 14	884	227	36	1214
Snyder, John J., Jr., Flatbush, N. Y. Fertilizer-distributer	352,158	Nov. 9	644	170	37	584
Snyder, John V., assignor of one-half to J. Kaiser, Santa Maria, Cal. Hinge for boxes and trunks	355,227	Dec. 28	2292	604	37	1456
Snyder, Lawrence M., Brookville, Pa. Book-holder	343,085	June 1	439	112	35	1086
Snyder, Peter F., McKeesport, Pa. Operating mine-doors	347,135	Aug. 10	913	243	36	641
Snyder, Philip C., *et al.* (See Iske, Anthony and A., assignors.)						
Snyder, Theodore H. and E. V., assignors of one-half to W. M. Singerly, Philadelphia, Pa. Car-coupling	347,208	Aug. 10	1010	269	36	659
Snyder, Thomas C. (See Belding, Thomas C., assignor.)						
Snyder, Thomas C. (See Davis, James E., assignor.)						
Snyder, Waldo V. (See Fryberger, Anthony Z., assignor.)						
Snyder, Washington I., *et al.* (See Fowler, George B., assignor.)						
Snypp, Theodore, Newport, Ohio. Label-holding device for bottles	337,717	Mar. 9	1118	2[illegible]	34	1173
Sochefsky, William, New York, N. Y. Decorating wall-hangings and other fabrics	334,299	Jan. 12	1154	.....	34	222
Sochefsky, William, New York, N. Y. Embossed fabric for upholstery, &c	334,300	Jan. 12	1155	309	34	222
Sochefsky, William, New York, N. Y. Decorated fabric	349,238	Sept. 14	965	.....	36	1229
Société Anonyme des Moteurs Inexplosibles au Pétrole Ordinaire et au Gaz. (See Ragot and Smyers, assignors.)						
Société de Laminage du Nickel. (See L'Epine, Maurice, assignor.)						
Société Gillet et Fils. (See Gillet, Joseph, assignor.)						
Société Richard Frères. (See Richard, Jules, assignor.)						
Society of Chemical Industry. (See Von Perger, Hugo, assignor.)						
Soden, Francis H. (See Page and Soden.)						
Soevyn, Francis, Washington, D. C. Trunk	348,245	Aug. 31	2530	680	36	962
Sohn, John W. (See Bentel, Frederick, assignor.)						
Sohn, John W. (See Bentel and Gardner, assignors.)						
Söhner, Andreas, Carlsruhe, Baden, Germany. Renovating gold and silver lace trimmings	349,535	Sept. 21	1369	355, 356	36	1317
Solano, Renaldo, Brooklyn, N. Y. Gripping mechanism for cable-railway cars	344,057	June 22	1841	472, 473	35	1363
Solano, Renaldo, Brooklyn, N. Y. Spark-arrester	353,271	Nov. 23	2156	577	37	886
Solano, Renaldo, assignor of two-thirds to J. W. Howard and D. R. Morse, Brooklyn, N. Y. Atmospheric railway-brake	344,058	June 22	1844	473	35	1363
Solano, Renaldo, assignor of two-thirds to J. W. Howard and D. R. Morse, Brooklyn, N. Y. Vacuum-motor	349,758	Sept. 28	1685	436	36	1383
Solano, Renaldo, assignor of two-thirds to J. W. Howard and D. R. Morse, Brooklyn, N. Y. Signal for railway-cars	349,959	Sept. 28	1955	505	36	1436
Solano, Renaldo, assignor of two-thirds to J. W. Howard and D. R. Morse, Brooklyn, N. Y. Vacuum railway-brake	351,473	Oct. 26	1989	517	37	381
Solano, Renaldo, assignor of two-thirds to J. W. Howard and D. R. Morse, Brooklyn, N. Y. Steam-muffler	352,273	Nov. 9	804	215	37	613
Solano, Renaldo, assignor of two-thirds to J. W. Howard and D. R. Morse, Brooklyn, N. Y. Power-brake	353,175	Nov. 23	2020	511, 512	37	862
Solano, Renaldo, assignor of two-thirds to J. W. Howard and D. R. Morse, Brooklyn, N. Y. Power-brake	353,892	Dec. 7	349	93	37	1071
Solcer, Newton, Brookville, Ill. Car-coupling	344,290	June 22	2173	556	35	1423
Solid Link Chain Manufacturing Company. (See Kinder, Julius, assignor.)						
Solidity Iron Last Company. (See Wells, George M., assignor.)						
Solinger, Moses, assignor to Solinger, Schindler & Co., New York, N. Y. Machine for calendering paper	337,028	Mar. 2	201	53	34	902
Solinger, Schindler & Co. (See Solinger, Moses, assignor.)						
Solliday, James. (See Vail and Solliday.)						
Solt, William, Sr., and W. D. Kline, Freeland, Pa. Grate-bar	333,687	Jan. 5	253	69	34	49
Solter, John, assignor of one-half to G. L. Krebs, Baltimore, Md. Can-heading machine	352,840	Nov. 16	1537	414	37	760
Solter, John, and H. R. Robbins, Jr., assignors of one-third to J. J. Sheppard, Baltimore, Md. Prepared cereals and mode of production	341,355	May 4	537	.....	35	602
Solvay, Ernest, Brussels, Belgium. Manufacture of bleaching-powder	339,493	Apr. 6	546	.....	35	101
Sombart, Julius, Boonville, Mo. Feed-regulator	336,496	Feb. 16	2017	529	34	813
Somers Brothers. (See Somers, Daniel M., assignor.)						
Somers, Daniel M., assignor to Somers Brothers, Brooklyn, N. Y. Packing and storing vessel	345,931	July 20	1622	418	36	304
Somers, Lyman B., Danbury, Conn. Wire frame for hat-brims	333,688	Jan. 5	255	69	34	49
Somerville, John, Bankside, Southwark, and W. H. Y. Webber, Forest Hill, county of Surrey, England. Gas cooking-stove	342,232	May 18	1720	458	35	844
Somerville, William, Sr., Buffalo, N. Y. Horseshoe	337,090	Mar. 2	277	73	34	978
Somerville, William, St. Louis, Mo. Jar	345,999	July 20	1718	443	36	321
Sommer, Charles, Sloan's Valley, Ky. Stave-dressing machine	349,323	Sept. 21	1058	272	36	1256
Sommer, David, Abilene, Kans. Listed-corn cultivator	352,274	Nov. 9	804	215	37	613
Sommerfield, Isidor, New York, N. Y. Heel for shoes	349,862	Sept. 28	1828	472	36	1412
Sondermann, Ernst. (See Moeller, Jacob, assignor.)						
Sone, Louis V., New York, N. Y. Vessel for transporting liquid cargoes in bulk	334,481	Jan. 19	1407	379	34	275
Sonne, Otto F. (See Haagensen and Sonne.)						
Sonstadt, Edward, Cheshunt, county of Hertford, England. Medical compound	345,867	July 20	1534	.....	36	287
Sook, Oliver P. (See Place, Harry D., assignor.)						
Sooy, Ephraim C. (See Hampton and Sooy.)						
Sooy, Ephraim C., Kansas City, Mo. Pulley	336,958	Mar. 2	100	28	34	944
Sooysmith, Charles, New York, N. Y. Tunneling apparatus	340,161	Apr. 20	1515	383	35	283
Sooysmith, Charles, New York, N. Y. Preparing soil for tunneling and excavating	340,162	Apr. 20	1517	384	35	284
Soper, Dwight B., Flint, Mich. Churn	349,759	Sept. 28	1686	436	36	1383
Sorgan, Otto, New York, N. Y. Machine for winding bobbins for sewing-machines, &c	336,168	Feb. 16	1549	408, 409	34	729
Sorley, Charles, New York, N. Y. Secondary or storage battery	341,860	May 11	1222	327	35	744
Sorley, Charles, New York, N. Y. Secondary-battery element	353,511	Nov. 30	2506	668, 669	37	959
Sortor, Hobart B., Kalamazoo, Mich. Vehicle for delivering mail	336,764	Feb. 23	2391	626, 627	34	898
Sortor, Hobart B., and G. S. Bennett, Kalamazoo, Mich. Two-wheeled vehicle	348,795	Sept. 7	344	93	36	1111
Soseman, Laban and T., South Bend, Ind. Hay-stacker	339,818	Apr. 13	1044	259	35	191
Soseman, Thomas. (See Soseman, Laban and T.)						
Sotter, Jacob C., Pottstown, Pa. Steam-boiler	336,497	Feb. 16	2018	529	34	813
Souder, Jacob J., Washington, D. C. Dumping-car	343,205	June 8	623	155	35	1129
Souders, Addison, Greentown, Ohio. Lifting-jack	348,480	Aug. 31	2852	768	36	1025

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Souders, Irvin C., Dayton, Ohio. Ice-shaver grip	342,813	June 1	53	13	35	1016
Soukup, Albert H., Kansas City, Mo. Miter-box	346,940	July 27	2059	528	36	394
Soule, Buren M., and P. F. Given; said P. F. Given assignor to C. E. Given, Cedar Rapids, Iowa. Foot-guard for railways	335,847	Feb. 9	1074	284	34	641
Soule, Charles B. (See Inman, Peter, assignor.) (Reissue.)						
Soule, George W., Meridian, Miss. Cotton-press	341,070	May 4	130	39	35	529
Soulen, Henry, Milwaukee, Wis. Track and hanger for sliding doors	349,536	Sept. 21	1372	356	36	1317
South Bend Iron Works. (See Anderson, Charles, assignor.)						
Southack, C. Frank, assignor of one-half to N. C. Lombard, Cambridgeport, Mass. Reed-chamber	346,177	July 27	1960	505	36	376
Souther, Samuel A., and J. M. Taylor, Los Angeles, Cal. Pillow-sham holder and lifter	350,470	Oct. 5	522	145	37	98
Southland, Henry K., and C. F. Warren, Washington, D. C. Combined advertising medium and card or ticket holder	350,022	Sept. 28	2041	527	36	1452
Southwell, Carolus P., Milwaukee, Wis. Combined breath-guard	344,688	June 29	2704	703	35	1529
Southworth, Albert. (See Bales and Leeson, assignors.)						
Southworth, Edward, Quincy, Mass. Teaching fractions	342,651	May 25	2347	620	35	965
Souvielle, Mathieu, Paris, France. Disinfectant	342,231	May 18	1719	.....	35	844
Sovereign, George E., Pottersville, N. J. Hanger for extension-lamps	349,909	Sept. 28	1884	487	36	1423
Sowers, George, Webster, Ill. Horse-power	348,246	Aug. 31	2531	680	36	962
Sowers, Percy S., Canton, Ohio. Sanitary muffle for vessels	349,010	Sept. 11	654	169	36	1171
Soxhlet, Franz, Munich, Germany, assignor to F. O. Matthiessen, Irvington, N. Y. Manufacturing grape-sugar	335,044	Jan. 26	2158	.....	34	419
Spadone, Amadee, New York, N. Y. Mat, stair, or step tread or pad	334,994	Jan. 26	2080	556	34	406
Spadone, Amadee, New York, N. Y. Rubber-covered hose	338,312	Mar. 23	1929	508	34	1297
Spafford, John W., Akron, Ohio. Fastening for sod-gates	349,537	Sept. 21	1375	356	36	1317
Spafford, Mark A., Rock Falls, Ill. Corn-planter	348,536	Aug. 31	2935	789	36	1040
Spalding, Frank D., Chicago, assignor of one-half to W. L. Baker, Cook County, Ill. Car-platform	354,443	Dec. 14	1148	307	37	1223
Spalding, Henry C., Boston, Mass. Apparatus for laying submarine cables underground	339,341	Apr. 6	324	81	35	61
Spalding, Henry C., Boston, Mass. Apparatus for waterproofing fabrics	345,062	July 6	299	74	36	54
Spalding, Henry C., Boston, Mass. Apparatus for waterproofing paper, &c	345,063	July 6	300	75	36	54
Spalding, Henry C., Boston, Mass. Electric circuit	346,509	Aug. 3	76	21	36	475
Spalding, Henry C., Boston, Mass. Electric circuit	346,510	Aug. 3	77	21	36	475
Spangenberg, Robert F., assignor of one-fourth to E. S. Ecuyer, New Orleans, La. Fastening for wire strapping	352,159	Nov. 9	646	170	37	585
Spangler, Albert E., assignor to Cincinnati Flying Target Company, Cincinnati, Ohio. Target-trap	344,504	June 29	2470	634	35	1483
Spangler, George H., Canton, Ohio. Cash-carrier	347,657	Aug. 17	1677	447	36	791
Spangler, Harry D., assignor of one-half to J. S. Spangler, Euphrata, Pa. Cotton-seed planter	354,944	Dec. 28	1885	497	37	1378
Spangler, Jacob S. (See Spangler, Harry D., assignor.)						
Spangler, Jacob W., York, Pa. Harness	338,797	Mar. 30	2620	690	34	1423
Spangler, Jacob W., York, Pa. Corn-planter	350,163	Oct. 5	89	26, 27	37	19
Spangler, Jacob W., York, Pa. Broadcast fertilizer-distributer	350,164	Oct. 5	94	27	37	20
Spangler, John L. (See Ball, Silas W., assignor.)						
Spare, John, New Bedford, Mass. Elastic-pressure walking-cane	340,738	Apr. 27	2351	619	35	439
Sparks, Albert F., assignor of one-half to H. W. Kimes, Dayton, Ohio. Automatic grain-scale	348,066	Aug. 24	2265	606, 607	36	907
Sparks, Charles H. (See Brown, William H., assignor.)						
Sparks, Charles H. (See Hale and Sparks, assignors.)						
Sparks, Edward G., Brooklyn, N. Y. Process of and apparatus for coating paper and other fabrics	343,345	June 8	850	215	35	1168
Sparks, Edward G., Brooklyn, N. Y. Machine for waxing paper	344,142	June 22	1961	501, 502	35	1384
Sparks, Edward G., Brooklyn, N. Y. Process of and apparatus for coating fabrics	349,463	Sept. 21	1273	330, 331	36	1297
Sparks, Frank A. (See Creamer and Sparks.)						
Sparks, Henry H., assignor to Mallory Wheeler Company, New Haven, Conn. Device for fastening windows	348,355	Aug. 31	2666	718	36	990
Sparks, John M., Nacogdoches, Tex. Pump	351,288	Oct. 19	1683	441	37	320
Sparks, Major A., Honey Creek, Ill. Gate-post	347,658	Aug. 17	1680	447	36	792
Sparks, Silas. (See Conner, William, assignor.)						
Sparks, Silas, Pearson, Ohio. Gate	350,165	Oct. 5	96	28	37	20
Sparks, Walter E. (See Hale and Sparks.)						
Sparks, William A. (See Rappleyea and Sparks.)						
Sparks, William A. (See Rappleyea and Sparks.) (Reissue.)						
Sparks, William A., assignor to Stein Manufacturing Company, Rochester, N. Y. Coffin	335,848	Feb. 9	1075	284	34	641
Sparks, William A., and N. Rappleyea, assignors to Stein Manufacturing Company, Rochester, N. Y. Coffin	338,198	Mar. 16	1778	464	34	1262
Sparks, William A., and N. Rappleyea, assignors to Stein Manufacturing Company, Rochester, N. Y. Coffin	338,199	Mar. 16	1779	464	34	1263
Sparks, William E., assignor to Sargent & Co., New Haven, Conn. Reversible latch	334,815	Jan. 26	1856	494	34	366
Sparks, William E., New Haven, Conn., assignor to Nashua Lock Company, Nashua, N. H. Name and drop-letter plate	339,819	Apr. 13	1046	259	35	191
Sparrow, Alphonso B., Malden, assignor of one-half to G. A. Russell, Newton, Mass. Baking-pan	335,251	Feb. 2	233	62	34	482
Spath, Peter F., and A. L. Remick, Dassel, Minn. Receptacle for holding nails	353,985	Dec. 7	486	132	37	1095
Spatzier, August W., Leipsic, Germany. Journal-bearing	333,560	Jan. 5	81	23	34	18
Spaulding, Charles F., Elizabeth, N. J. Packing-frame for paper	353,471	Nov. 30	2448	653	37	949
Spaulding, David L. (See Williams and Brewster, assignors.)						
Spaulding, Edward, Brooklyn, N. Y. Machine for setting bands on elliptic springs	334,397	Jan. 12	1277	344	34	244
Spaulding, Edward S., New York, N. Y. Transmitting and receiving articulate sounds to distant points	345,084	July 6	399	100	36	73
Spaulding, Edward S., New York, N. Y. Apparatus for transmitting to distant points articulate sounds	345,085	July 6	400	101	36	73
Spaulding, N. W. (See Potter, Addison, assignor.)						
Spaulding, Nathan W., San Francisco, Cal. Device for grinding saw-bibs	351,666	Oct. 26	2270	588	37	434
Spaulding, Norman E., Brooklyn, N. Y. Spring	352,013	Nov. 2	412	112	37	535
Spaulding, Norman E., Brooklyn, N. Y. Elliptic spring	352,014	Nov. 2	414	112	37	535
Spaulding, William S., Paintersville, Pa. Gate for hens' nests	348,356	Aug. 31	2667	719	36	990
Speaks, Milton *et al.* (See Crosbie, James H., assignor.)						
Spear, Alexander F., San Francisco, Cal. Drum attachment for pin-rails	337,029	Mar. 2	202	53	34	962
Spear, Robert, New York, N. Y. Transmitting power	333,789	Jan. 5	401	108	34	76
Spear, Warren, Aurora, Ill. Attachment for sliding doors	334,203	Jan. 12	1010	264, 269	34	196

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Spear, William, Lynn, Mass. Combined sweat-scraper and curry-comb	348,067	Aug. 24	2268	607	36	908
Spears, John A., near Thomasville, Ga. Trace and rein carrier for harness	350,166	Oct. 5	97	28	37	20
Specht, Frank, Jacksborough, Tex. Shingling-bracket	341,178	May 4	289	82	35	557
Specialty Manufacturing Company. (See Jackson, William, assignor.)						
Speck, William D., Roxbury, Pa. Drier	344,208	June 22	2056	526	35	1402
Spedden, Robert R., Astoria, Oreg. Anchor	347,972	Aug. 24	2134	568	36	882
Spedding, Thomas, Dunn, county of Haldimard, Ontario, Canada. Fruit paring and coring machine	341,514	May 11	749	202	35	652
Speer, Alfred, Passaic, N. J. Elevated railway track and car	339,494	Apr. 6	577	132	35	101
Speer, Alfred, Passaic, N. J. Illuminated clock hand and dial	347,528	Aug. 17	1770	390	36	751
Speer, Darius B., Blue Grass, Iowa. Grafting-machine	348,592	Sept. 7	83	24	36	1062
Speer, Robert G. (See Griffith, James S., assignor.)						
Spees, Frederic B., Tabor, Iowa. End-gate hinge	342,144	May 18	1611	431	35	824
Speicher, Nicholas, St. Paul, Minn. Permutation-padlock	352,373	Nov. 9	926	248, 249	37	638
Speicher, Samuel S., Urbana, Ind. Broadcast seed-sower	349,820	Sept. 28	1776	459	36	1400
Speicher, Samuel S., Urbana, Ind. Broadcast-seeding machine	349,821	Sept. 28	1777	459	36	1401
Speight, Thomas, Bradford, and H. W. Whitehead, Leeds, county of York, England. Machine for oiling and drying wool	345,185	July 6	531	136	36	97
Speirs, John, Jersey City, N. J. Device for closing apertures in vessels	351,132	Oct. 19	1478	387	37	283
Speirs, John, Jersey City, N. J. Device for closing openings in the hulls of vessels	352,275	Nov. 9	805	215	37	613
Spelman, Michael, Shreveport, La. Car coupling	343,086	June 1	441	112	35	1087
Spence, Hamilton, Minneapolis assignor of one-half to D. W. Davis, Hastings, Minn. Steam boiler	338,113	Mar. 16	1669	434	34	1240
Spence, Samuel B., assignor of one-half to D. C. Norton, Lemont, Ill. Dumping-car	355,228	Dec. 28	2292	604	37	1156
Spencer, William H., Losantville, Ind. Band-cutter and feeder for thrashing-machines	334,725	Jan. 19	1740	464	34	336
Spencer, Austin K., and C. A. Smith, Gloversville, N. Y. Key-hole guard	352,015	Nov. 2	415	113	37	535
Spencer, Charles L., Providence, R. I. Stove-polish receiver	342,233	May 18	1722	458	35	844
Spencer, Derastus H., Jr., Chicago, Ill. Swiveled spout and case	352,583	Nov. 16	1190	322	37	696
Spencer, Edward, North Carlton, Victoria. Apparatus for amalgamating ore	345,868	July 20	1535	397	36	287
Spencer, Esther R., *et al.* (See Wilson, Joseph C., assignor.)						
Spencer, Esther R., assignor of three-fourths to J. C. Wilson and H. F. Atkinson, Rochester, N. Y. Lacing-bearing	342,940	June 1	240	61	35	1049
Spencer, George N., Three Rivers, Mich. Magazine fire-arm	347,072	Aug. 10	831	221	36	626
Spencer, George W., St. James, Nebr. Harrow attachment for plows	336,023	Feb. 9	1316	349	34	682
Spencer, Henry P., assignor of one-half to W. Ward, Forestville, N. Y. Broom-holder	353,716	Dec. 7	95	25	37	1023
Spencer, Hiram A., Rogers, Tex. Weight-motor	353,717	Dec. 7	96	25	37	1023
Spencer, James C., Rochester, assignor of one-half to J. G. Smith, Jamestown, N. Y. Handle for screw-drivers and other tools	354,359	Dec. 14	1045	280	37	1205
Spencer, John E., assignor of one-half to Smith & Smart, Salem, Mass. Automatic damper-regulator	338,686	Mar. 23	2453	647	34	1388
Spencer, John M., assignor of one-half to E. L. House, Lawrence, Kans. Apparatus for watering stock	341,356	May 4	539	148	35	602
Spencer, John N., Newark, Del. Machine for turning axles	342,048	May 18	1475	395	35	798
Spencer, Lloyd G., Chicago, Ill. Child's carriage	338,798	Mar. 30	2621	690, 691	34	1424
Spencer, Ralph L., Hartford, assignor of one-half to H. O. Rose, Essex, Conn. Sun-dial	335,647	Feb. 9	788	209	34	588
Spencer, Samuel. (See Perry, Gillman, and Spencer.)						
Spencer, William, Cheboygan, Mich. Grapple	336,498	Feb. 16	2018	529	34	813
Spencer, William D., Middletown, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock	335,648	Feb. 9	789	209	34	589
Spencer, Wilton H., Providence, R. I. Loom-shuttle	340,463	Apr. 20	1951	501	35	362
Spenneberg, George J., assignor to J. A. Donaldson and D. Bromley, Carrollton, Ky. Shaft-holder	352,494	Nov. 9	1074	289	37	666
Sperry, Elmer A., Chicago, Ill. Vitrified asbestus	343,651	June 15	1284		35	1253
Sperry, Elmer A., Chicago, Ill. Regulator for dynamo-electric machines	353,986	Dec. 7	487	133	37	1095
Sperry, Elmer A., Chicago, Ill. Electric motor	353,987	Dec. 7	488	133	37	1095
Sperry, Elmer A., Chicago, Ill. Regulator for dynamo-electric machines	353,988	Dec. 7	490	133	37	1096
Sperry, Elmer A., Chicago, Ill. Annular armature for dynamo-electric machines	353,989	Dec. 7	492	133	37	1096
Sperry, Elmer A., Chicago, Ill. Electric regulator	353,990	Dec. 7	493	134	37	1096
Sperry, Elmer A., Chicago, Ill. Dynamo-electric machine	354,945	Dec. 28	1488	497	37	1379
Sperry, Elmer A., Chicago, Ill. Dynamo-electric machine	354,946	Dec. 28	1489	498	37	1379
Spicer, Pratt A., Marshall, Mich. Hay-tedder	345,932	July 20	1624	418	36	305
Spicer, Pratt A., Marshall, Mich. Hay-tedder	350,566	Oct. 12	657	180	37	126
Spicer, Vibe, and J. Schreuder, Pittsburg, Pa. Semaphore-signal	346,387	July 27	2255	577, 578	36	431
Spiegel, Charles A., Philadelphia, Pa. Holder for checks, notes, &c	345,933	July 20	1625	419	36	305
Spiel, Johannes, Berlin, Germany. Petroleum and gas engine	349,369	Sept. 21	1139	293, 294, 295	36	1272
Spiel, Johannes, Berlin, Germany. Gas-engine	349,464	Sept. 21	1275	331	36	1298
Spielmann, Isidore, London, county of Middlesex, England. Gas-heater	348,641	Sept. 7	149	42	36	1074
Spilker, John J., Cincinnati, Ohio. Vise	334,816	Jan. 26	1857	495	34	366
Spiller, Harry A., Boston, Mass., assignor to Pneumatic Gun Carriage Company, Baltimore, Md. Pneumatic gun-carriage	339,589	Apr. 6	725	178	35	126
Spilman, Baldwin D., assignor to himself, A. G. Jackson, J. W. Wilkinson, and G. H. Cameron, Fort Meade, Dak. Ter. Hay-loader	341,179	May 4	289	82	35	557
Spindler, Charles E., *et al.* (See Kienardt, John A., assignor.)						
Spinning, Charles B., *et al.* (See Harker, Henry K., assignor.)						
Spinning, Frank, *et al.* (See Murray, William A., assignor.)						
Spiro, Charles, New York, N. Y. Type-writing machine	335,392	Feb. 2	427	110, 111	34	518
Spiro, Charles, New York, N. Y. Type-writing machine	339,078	Mar. 30	3022	799	34	1494
Spiro, Charles, New York, N. Y. Type-writing machine	344,143	June 22	1963	502	35	1385
Spiro, Charles, New York, N. Y. Type-writing machine	352,160	Nov. 9	647	170, 171, 172	37	585
Spitler, David A., Flora, Ind. Combined harrow and replanter	338,114	Mar. 16	1671	434	34	1240
Spitzer, Jacob A., Philadelphia, Pa. Making and blocking muffs	342,049	May 18	1477	395	35	798
Spitzer, Jacob A., Philadelphia, Pa. Device for blocking muffs	344,752	June 29	2792	723	35	1544
Spitzer, Sigmund, Vienna, Austria-Hungary. Barley-machine	333,561	Jan. 5	82	24	34	18
Spitznagel, Frank X., Buffalo, N. Y. Labeling-machine	350,899	Oct. 12	1129	300, 301	37	213
Splitt, William, Wauwatosa, Wis. Cartridge-carrier	343,259	June 8	707	175	35	1144

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Spofford, John C., Boston, Mass. Bracket for use in the draping of windows	352,100	Nov. 2	539	143	37	559
Sponenburgh, Charles L., Detroit, Mich. Check-rein spring	353,602	Nov. 30	2641	705	37	985
Spooner, D. Brainerd, Boston, Mass. Proportional water-meter	341,515	May 11	750	203	35	652
Spooner, Frederick B., Brooklyn, N. Y. Buckle	335,252	Feb. 2	234	62	34	482
Spooner, Shipley W., Astoria, Oreg. Lamp-burner	347,973	Aug. 24	2135	569	36	882
Spragg, Lorenzo D., Marion, Ohio. Hoisting device	349,538	Sept. 21	1375	357	36	1318
Sprague, Charles L. (See Flemmings, Robert F., Jr., assignor.)						
Sprague, Daniel A., Poland, N. Y. Vehicle running-gear	348,642	Sept. 7	150	42	36	1075
Sprague Electric Railway and Motor Company. (See Sprague, Frank J., assignor.)						
Sprague, Frank J., New York, N. Y. Electro-dynamic motor	335,781	Feb. 9	985	261	34	624
Sprague, Frank J., New York, N. Y. Electro-dynamic motor	337,793	Mar. 9	1214	316	34	1149
Sprague, Frank J., New York, N. Y. Electro-dynamic motor	337,794	Mar. 9	1216	316 317	34	1150
Sprague, Frank J., New York, N. Y. Electric railway	338,619	Mar. 23	2353	619	34	1371
Sprague, Frank J., New York, N. Y. Electric railway	340,684	Apr. 27	2269	598	35	425
Sprague, Frank J., New York, N. Y. Electric railway	340,685	Apr. 27	2271	598	35	425
Sprague, Frank J., New York, N. Y. Electrical propulsion of vehicles	353,829	Dec. 7	248	66	37	1051
Sprague, Frank J., assignor to Edison Electric Light Company, New York, N. Y. System of electrical distribution	335,045	Jan. 26	2159	574 575	34	419
Sprague, Frank J., New York, N. Y., assignor to Sprague Electric Railway and Motor Company. Electric railway system	338,313	Mar. 23	1930	508 509	34	1297
Sprague, James F. (See Simmons and Sprague.)						
Sprague, Lawren. (See Patrick, Theodore L., assignor.)						
Sprague, Oscar L., Andover, Ohio. Swing	352,430	Nov. 9	999	269	37	653
Sprague, Tobias A. (See Mills, Joseph, assignor.)						
Sprague, Ward, Sandy Creek, N. Y. Combined burglar-alarm and door-fastener	347,974	Aug. 24	2136	569	36	883
Spratley, Hiram S., North Springfield, Mo. Drill attachment	334,817	Jan. 26	1858	495	34	366
Spratt, Alfred S. (See Spratt, George A., A. S., and H. J.)						
Spratt, George A., A. S., and H. J., London, England. Machine for making hair-pins	350,900	Oct. 12	1132	301	37	214
Spratt, Henry J. (See Spratt, George A., A. S., and H. J.)						
Spree, L. E. Hugo, New York, N. Y. One-wheeled velocipede	344,059	June 22	1845	474	35	1364
Springer, Alfred. (See Hosea and Springer.)						
Springer, Alfred, Cincinnati, Ohio. Molecular pivot-balance	340,010	Apr. 13	1306	326 327	35	240
Springer, Alfred, Cincinnati, Ohio. Molecular pivot-balance	340,011	Apr. 13	1309	327	35	240
Springer, Alfred, Cincinnati, Ohio. Molecular pivot-balance	340,012	Apr. 13	1310	327	35	240
Springer, Alfred, Cincinnati, Ohio. Torsion pivot-balance	340,013	Apr. 13	1312	328	35	240
Springer, Alfred, and F. A. Roeder, deceased, (F. Davis administrator,) Cincinnati, Ohio, assignors, by mesne assignments, to United States Torsion Balance and Scale Company, Jersey City, N. J. Torsional pivot-balance	339,946	Apr. 13	1214	302	35	223
Springer, Alfred, and F. A. Roeder, deceased, (F. Davis administrator,) Cincinnati, Ohio, assignors, by mesne assignments, to United States Torsion Balance and Scale Company, Jersey City, N. J. Torsional balance	339,947	Apr. 13	1216	302	35	223
Springer, Charles, Tidioute, Pa. Wagon-jack	339,590	Apr. 6	727	179	35	127
Springer, Charles C. (See Makin, John, assignor.)						
Springer, Charles C., Yarmouth, assignor to American Sulphite Pulp Company, Portland, Me. Pulp-digester for paper-making	335,046	Jan. 26	2162	575	34	420
Springer, Frederick J., Edwardsville, Ill. Carriage-pole	337,453	Mar. 9	799	203	34	1077
Springer, Henry, Mount Vernon, Ind. Clothes-drier	342,472	May 25	2095	553	35	919
Springer, Henry A., El Moro, Colo. Car-coupling	350,275	Oct. 5	240	70	37	50
Springer, Henry J., Edwardsville, Ill. Thill-coupling	343,927	June 15	1650	423	35	1323
Springer, Jacob M., Mount Erie, Ill. Fruit-drying rack	333,897	Jan. 5	540	117	34	101
Springer, John, Clinton, Wis. Furnace	336,765	Feb. 23	2392	627	34	888
Springer, Lorin C., Darlington, Indian Ter. Scaffold-bracket	347,659	Aug. 17	1681	448	36	792
Springer, Lorin C., Darlington, Indian Ter. Ladder	349,370	Sept. 21	1144	295	36	1272
Springer, Thomas L., *et al.* (See Springer, William N., assignor.)						
Springer, William N., assignor of one-half to T. L. Springer and H Smart, Indianapolis, Ind. Wagon-jack	334,057	Jan. 12	779	213	34	153
Springfield Engine and Thresher Company. (See Kelly and Dieter, assignors.)						
Springfield Glue and Emery Wheel Company. (See Hyde, Elwin R., assignor.)						
Springfield Metallic Burial Casket Company. (See Baker, Scipio E., assignor.)						
Springfield Metallic Coffin Company. (See Baker, Scipio E., assignor.)						
Springhorn, Fredrick, Hoboken, N. J., assignor of one-half to H. Springhorn, New York, N. Y. Cover for fruit-baskets	342,851	June 1	104	26	35	1025
Springhorn, Hermann. (See Springhorn, Fredrick, assignor.)						
Springsteen, Nelson E., Detroit, Mich. Carriage-pole tip	341,698	May 11	1020	269	35	705
Springsteen, Nelson E., Detroit, Mich. Bridle-bit	347,209	Aug. 10	1010	269	36	659
Sprout, Charles H. (See Sprout Lewis B. and C. H.)						
Sprout, Lewis B. and C. H., Muncy, Pa. Grinding-mill	346,511	Aug. 3	78	21	36	475
Spruce, James, assignor to Scovill Manufacturing Company, Waterbury, Conn. Suspender-buckle	339,948	Apr. 13	1219	302	35	224
Spruce, James, assignor to Scovill Manufacturing Company, Waterbury, Conn. Suspender-buckle	342,145	May 18	1612	431	35	824
Spruce, James, assignor to Scovill Manufacturing Company, Waterbury, Conn. Buckle	348,796	Sept. 7	345	93	36	1114
Spruce, James, assignor to Scovill Manufacturing Company, Waterbury, Conn. Buckle	353,512	Nov. 30	2509	669	37	960
Sprunger, John A., Berne, Ind. Harrow	354,262	Dec. 14	911	240	37	1178
Spühl, Heinrich, St. Fiden, Switzerland, assignor of one-half to E. Deutgen, Düren, Germany. Spiral-spring-winding machine	351,220	Oct. 19	1594	418 419	37	305
Spurgeon, Charles R. (See Kirtley and Spurgeon.)						
Spurgin, Robert, Chicago, Ill. Index for letter-books	337,454	Mar. 9	800	203	34	1077
Spurr, Charles W., Boston, Mass. Veneering	348,593	Sept. 7	84	24	36	1063
Spurr, William C. (See Bishop and Down, assignors.)						
Square Hole Auger Company. (See Lake, Abraham E. and J. C., assignors.)						
Squier, George H., Trempealeau, Wis. Tympan	340,464	Apr. 20	1952	501 502	35	363
Squier, Walter W., Buffalo, N. Y. Dust-pan holder	335,545	Feb. 2	632	166	34	553
Squire, Edmund B., Sharon, Mass. Adjustable embroidery frame and stand	351,667	Oct. 26	2271	588	37	435
Squire, Hubert A., Ludington, Mich. Machine for grinding shingle-saws	341,071	May 4	134	39 40 41	35	530
Squires, Arthur C. (See Kleinert and Squires.)						
Squires, Edward, Beaverton, Oreg. Carriage-gear	344,689	June 29	2705	703	35	1529
Squires, George W. (See Moore, Solon E., assignor.)						
St. Clair, William R., McKenzie, Tenn. Level, plumb, and angle-gage	352,276	Nov. 9	806	216	37	614

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
St. John, A. J. (See Zeller, Melanethon E., assignor.)						
St. John, Garland B., Kalamazoo, Mich. Plow	339,593	Apr. 6	731	179	35	128
St. John, George B., Boston, Mass. Metallic thermometer	355,281	Dec. 28	2365	621	37	1471
St. John, George B., Boston, Mass., assignor to Standard Thermometer Company. Heat-regulator for incubators	353,272	Nov. 23	2157	577	37	888
St. John, George H., Leonardsville, N. Y. Horse-boot	349,668	Sept. 21	1534	396	36	1350
St. John, Gustavus A., Pultney, N. Y. Breast-collar coupling	354,028	Dec. 7	550	149	37	1106
St. John, John C., assignor to S. Williams, New York, N. Y. Tag	340,327	Apr. 20	2044	525	35	380
St. John, John C., assignor to A. Kimball, New York, N. Y. Pin ticket or tag	340,961	Apr. 27	2643	697	35	492
St. John, John C., assignor to E. G. Black, New York, N. Y. Wind musical instrument	341,181	May 4	292	83	35	558
St. John, Justus M., Cedar Rapids, Iowa. Document-file	352,585	Nov. 16	1193	323	37	696
St. John, Roswell H., assignor to Union Manufacturing Company, Toledo, Ohio. Tension for sewing-machines	336,827	Feb. 23	2475	651	34	902
St. John, Roswell H., assignor to Union Manufacturing Company, Toledo, Ohio. Feed mechanism for sewing-machines	343,920	June 15	1653	423 / 424	35	1323
St. John, Thomas J., St. Joseph, Mo. Motor for washing-machines and churns	345,651	July 13	1231	318	36	227
St. John, William W., New York, N. Y. Reciprocating engine	352,633	Nov. 16	1264	341	37	709
St. Lawrence, Henry, Northampton, Mass. Power-hammer	335,394	Feb. 2	432	111	34	518
St. Lawrence, James J., Chicago, Ill. Rotary engine	343,206	June 8	626	156	35	1129
St. Lawrence Manufacturing Company. (See Corbin, Amasa, Jr., assignor.)						
St. Lawrence Manufacturing Company. (See Norton, Fred. H., assignor.)						
St. Louis Cooperage Company. (See Chambers, James M., assignor.)						
St. Louis Iron and Machine Works. (See Krutzsch, Herman, assignor.)						
St. Mielcarek, Wladislaus, Grand Rapids, Mich. Feed-regulator for roller-mills	340,898	Apr. 27	2559	673 / 674	35	477
Staar, Henry C., Pittsburg, Pa. Manufacture of eye-bars	337,881	Mar. 16	1341	347	34	1180
Stacker, John, assignor to Winsted Norway Bolt Company, Winsted, Conn. Machine for making whiffletree-bolt blanks	353,830	Dec. 7	249	66	37	1073
Stackpole, Charles F., Lynn, Mass. Device for cutting rods	342,712	May 25	2441	648	35	982
Stackpole, Charles F., Lynn, Mass. Rod-cutting instrument	346,178	July 27	1961	505	36	376
Stadelman, William A., Lower Merion, Pa. Thill-coupling	333,973	Jan. 5	652	178	34	123
Stadtmiller, George, Latrobe, Pa. Ice-sawing machine	343,739	June 15	1427	356	35	1278
Stadtmueller, Max F. E., Castle Grove, Iowa. Washing-machine	351,289	Oct. 19	1684	442	37	320
Stafford, Benjamin E. D., and F. E. Whipple, Hopedale, Mass. Surface and planer gage	352,584	Nov. 16	1191	322	37	696
Stafford, George A., Desdimonia, Tex. Rotary churn	349,371	Sept. 21	1146	296	36	1273
Stafford, Henry E. (See McKay, Isaac M., assignor.)						
Stafford, William R., Scandia, Kans. Cornstalk-cutter	349,822	Sept. 28	1778	459	36	1401
Stage, Ward. (See Stage, William W. and W.)						
Stage, Willard W. and W., Haw Patch, Ind. Swinging gate	343,550	June 8	1139	287	35	1220
Stagg, Alfred. (See Harris and Stagg.)						
Stahl, Harlow C., and J. C. Rosebaugh, assignors to Fremont Cultivator Company, Fremont, Ohio. Vehicle-wheel	334,301	Jan. 12	1156	309	34	223
Stahl, Jasper, San Francisco, Cal. Tree-cover	349,066	Sept. 14	728	186	36	1184
Stahl, Sidney S., Connellsville, Pa. Snap-hook	345,086	July 6	401	101	36	73
Stahlberg, Charles, assignor to Waterbury Clock Company, Waterbury, Conn. Twenty-four-hour striking clock	344,209	June 22	2057	527	35	1402
Staiger, Joseph, and G. H. Scofield, Zumbrota, Minn. Draft-equalizer	349,372	Sept. 21	1147	296	36	1273
Stainton, H. (See Donal, Robert U., assignor.)						
Stair, Jacob L., Altamont, Ill. Bedstead	346,622	Aug. 3	219	60	36	503
Stair, John G., Mantono, Ill. Thill coupling	336,825	Feb. 23	2472	649	34	902
Stairs, James W., and J. Craig, Halifax, Nova Scotia, Canada. Process of and apparatus for manufacturing concentrated extract of cod-livers	353,090	Nov. 23	1901	511	37	838
Stalcup, Benjamin, assignor of one-half to M. L. Barrackman, Worthington, Ind. Sharpener for colters and harrow-disks	349,667	Sept. 21	1532	395	36	1350
Staley, James C., Glade Mills, Pa. Post-hole digger	350,167	Oct. 5	98	28	37	21
Staley, Jefferson. (See Ritchie, Benjamin F., assignor.)						
Staley, Robert H. (See Nash, Nathan E., assignor.)						
Stallman, Granville H. (See Siereveld and Stallman.)						
Stalnaker, Lloyd C., York, Pa. Corn and seed planter	337,795	Mar. 9	1217	317	34	1150
Stambaugh, Charles W., assignor of one-half to C. Wetzig, Cleveland, Ohio. Toaster	347,306	Aug. 10	1155	309	36	685
Stambaugh, David F., St. Louis, Mo. Bed-bottom. (Reissue)	10,749	July 27	2364	606	36	450
Stambaugh, David F., assignor of one-half to J. T. Birch, St. Louis, Mo. Machine for making coiled springs for bed-bottoms	343,928	June 15	1651	423	35	1323
Stambaugh, George. (See Koch, Edouard A., assignor.)						
Stambly, John. (See Ensling, Philipp, assignor.)						
Stamm, Ferdinand, Milwaukee, Wis. Coffee-mill	351,290	Oct. 19	1686	442	37	321
Stammer, Emil, Brooklyn, N. Y. Ash-sifter	342,713	May 25	2443	648	35	982
Stanard, John. (See Armstrong, Samuel, assignor.)						
Stanbrough, Eli C., Lead Hill, Ark. Combined washing and wringing machine	339,230	Apr. 6	162	43	35	31
Standard Button Fastening Company. (See Mathison, Joseph, assignor.)						
Standard Cancelling Ballot Box Company. (See Butler, Warren T., assignor.)						
Standard Electric Clock Company. (See Himmer, Vitalis, assignor.)						
Standard Electric Clock Company. (See Weisgerber and Himmer, assignors.)						
Standard Electric Railway Signal Company. (See Tisdale, Charles D., assignor.)						
Standard Hand Rock Drill Company. (See Bergh, Bror F., assignor.)						
Standard Heat and Light Company. (See Lockwood, George E., assignor.)						
Standard Machinery Company. (See Greenman, Thomas S., assignor.)						
Standard Multiplex Telegraph Company. (See Brown, Robert G., assignor.)						
Standard Pump Manufacturing Company. (See Hugentobler, Emil M., assignor.)						
Standard Pump Manufacturing Company. (See Stark, William F., assignor.)						
Standard Rubber Company. (See McCarthy, M. Jennie, assignor.)						
Standard Thermometer Company. (See St. John, George B., assignor.)						
Standard Tool Company. (See Ryder, Sumner G., assignor.)						
Standeford, David W., Oakland, Cal. Saw-table gage	333,562	Jan. 5	83	24	34	18
Standen, William R., New York, N. Y. Drawer	349,910	Sept. 28	1886	487	36	1423
Standiford, Alexander B., *et al.* (See Fouts, David W., assignor.)						
Standiford Brothers. (See Standiford, Emmet C., assignor.)						
Standiford, Emmet C., assignor to Standiford Brothers, Chrisman, Ill. Stereotype plate and block	347,837	Aug. 24	1932	513	36	847
Standiford, John E., *et al.* (See Fouts, David W., assignor.)						
Standish, Arthur K., assignor of one-half to R. M. Russell, New Haven, Conn. Lighting device	347,529	Aug. 17	1471	390	36	752
Standish, Frederick, Shelton, Conn. Necktie-fastener	350,703	Oct. 12	859	229	37	172
Standish, George O., Boston, Mass. Horseshoe	333,974	Jan. 5	653	178	34	123

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Standish, Syranus, Pacheco, Cal. Windmill	338 799	Mar. 30	2623	691	34	1424
Standley, Joseph R. (See Sutton, George L., assignor.)						
Standley, Joseph R., Plattsville, Iowa. Fence	339,116	Mar. 30	3081	815	34	1504
Stauert, Henry B., Newark, N. J. Hollow chill	345,455	July 13	917	230	36	170
Stanford, Arthur L., Waukegan, Ill. Lifting-jack	346,783	Aug. 3	408	113	36	540
Stanford, Arthur L., Waukegan, Ill. Clutch	346,784	Aug. 3	410	113	36	540
Stanford, Edward C. C., Dalmuir, county of Dumbarton, Scotland. Manufacture of useful products from sea-weed	341,072	May 4	136	.....	35	530
Stanford, Edward C. C., Dalmuir, county of Dumbarton, Scotland. Algin and other useful products	349,760	Sept. 28	1688	.....	36	1384
Stanford, Frank H., Elizabeth, N. J. Car-coupling	343,740	June 15	1428	356	35	1379
Stange, Julius, Chicago, Ill. Machine for embossing picture-frame molding	338,800	Mar. 30	2624	691	34	1424
Staniland, Thomas. (See Minton, Harry C., assignor.)						
Stanke, Florian, San Francisco, Cal. Mole and gopher trap	339,707	Apr. 13	902	222	35	165
Stanley Corrugated Fireproof Lathing Company. (See Stanley, James, assignor.)						
Stanley, Ethelbert A., assignor to Mann's Boudoir Car Company, New York, N. Y. Car-truck	346,785	Aug. 3	412	114	36	540
Stanley, Ethelbert A., Troy, N. Y., assignor to Mann's Boudoir Car Company. Car seat and berth	354,812	Dec. 21	1694	447	37	1330
Stanley, Frank E. (See Stanley, Freelan O., and F. E.)						
Stanley, Freelan O., Lewiston, and F. E. Stanley, Auburn, Me. Machine for manufacturing photographic dry-plates	345,331	July 13	737	186	36	139
Stanley, James, Newark, N. J. Bridle-bit	346,231	July 27	2032	524	36	390
Stanley, James, Newark, N. J. Harness	350,216	Oct. 5	172	50	37	35
Stanley, James, Newark, N. J. Covering for bridle-bit cores	354,263	Dec. 14	912	241	37	1178
Stanley, James, New York, N. Y., assignor to Stanley Corrugated Fireproof Lathing Company, of New York. Metallic plastering-surface. (Reissue)	10,781	Nov. 2	559	148	37	562
Stanley, James D., Wilmington, N. C. Apparatus for distilling turpentine and for the purification of the crude products of distillation thereof. (Reissue)	10,689	Feb. 16	2076	546	34	823
Stanley, Nelson D., Essex Junction, Vt. Tire-upsetter	352,431	Nov. 9	999	270	37	653
Stanley, Reginald, Nuneaton, county of Warwick, England. Boring-machine for mining coal, &c.	345,551	July 13	1077	275	36	199
Stanley Rule and Level Company. (See Bailey, Frank M., assignor.)						
Stanley Rule and Level Company. (See Sargent, Samuel D., assignor.)						
Stanley Rule and Level Company. (See Traut, Justus A., assignor.)						
Stanley, William, Jr., Pittsburg, Pa. System of electric lighting	333,564	Jan. 5	85	25	34	18
Stanley, William, Jr., Great Barrington, Mass. Thermal telephone	348,501	Aug. 31	2881	775	36	1030
Stanley, William, Jr., Great Barrington, Mass. Electric-circuit controller	353,603	Nov. 30	2642	706	37	985
Stanley, William, Jr., Great Barrington, Mass., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Induction-coil	349,611	Sept. 21	1468	379	36	1336
Stanley, William, Jr., Great Barrington, Mass., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Induction-coil	349,612	Sept. 21	1469	379	36	1337
Stanley, William, Jr., Great Barrington, Mass., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Automatic cut-out for electric-light circuits	349,613	Sept. 21	1470	379	36	1337
Stanley, William, Jr., Great Barrington, Mass., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Automatic cut-out for electric-light circuits	349,614	Sept. 21	1471	380	36	1337
Stanley, William, Jr., Great Barrington, Mass., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Electric generator	349,615	Sept. 21	1472	380	36	1337
Stanley, William, Jr., Great Barrington, Mass., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Induction coil	349,616	Sept. 21	1474	381	36	1338
Stanley, William, Jr., Great Barrington, Mass., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Induction-coil	349,617	Sept. 21	1475	381	36	1338
Stanley, William, Jr., and O. B. Shallenberger, Pittsburg, Pa. Armature for dynamo-electric machines	333,563	Jan. 5	84	24, 25	34	18
Stanley, William F., Cumberlow, South Norwood, county of Surrey, England. Buffer for the prevention of collisions on land and water	345,552	July 13	1079	276	36	200
Stanley, William H., Quitman, Ga. Combination-plow	351,133	Oct. 19	1479	387	37	283
Stanley Works. (See Hart, William H., assignor.)						
Stansbury, Alfred D., Colliers, W. Va. Broom-holder	337,091	Mar. 2	278	74	34	978
Stansel, Menzo, Yorkville, Ill. Belt protector and guide	342,269	May 18	1777	471	35	854
Stanton, Albert G., Saugerties, N. Y. Cooking-vessel	342,050	May 18	1479	396	35	798
Stanton, Bradley W., assignor of one-half to C. S. Maynard, Paw Paw, Mich. Fence-post	337,882	Mar. 16	1342	348	34	1180
Stanton, Fread, assignor to E. S. Brown, receiver, Stillwater, Minn. Grain-register	344,013	June 22	1777	458	35	1352
Stanza, Nathaniel B. (See Hurd, Stanza, and Woodson.)						
Stapfer, Adolf. (See Honegger, Emil, assignor.)						
Staples, Arthur, Lowell, Mass. Cesspool and catch-basin	338,801	Mar. 30	2626	691	34	1425
Staples, Arthur, Lowell, Mass. Doll-supporter	352,161	Nov. 9	653	172	37	585
Staples, Charles. (See Staples, Levi and C.)						
Staples, Elial M., Springfield, Mass. Box for receiving and holding papers	335,782	Feb. 9	989	261	34	624
Staples, Hiram, Battle Creek, Mich. Composition of matter to be used for paving and roofing purposes	344,210	June 22	2060	.....	35	1403
Staples, John E., York, Me. Marine way	334,094	Jan. 12	836	228, 229	34	163
Staples, Levi, Barrington, and C. Staples, Providence, R. I. Nut-lock	334,058	Jan. 12	780	213	34	153
Stapp, David H., *et al.* (See Skinner, Prentice B., assignor.)						
Stapp, Robert B., Denver, Colo. Machine for manufacturing fences	335,253	Feb. 2	236	62, 63	34	482
Star Automatic Fire Extinguisher Company. (See Kittell and Jackson, assignors.)						
Star Brass Manufacturing Company. (See Taber, Freeman A., assignor.)						
Star Manufacturing Company. (See Montgomery, William T., assignor.)						
Stark, Andrew, Chicago, Ill. Harvester-reel	336,959	Mar. 2	102	28	34	944
Stark, Andrew, Chicago, Ill. Harvester-reel	339,229	Apr. 6	158	42	35	30
Stark, Andrew, Chicago, Ill. Grain-binder	354,813	Dec. 21	1694	447, 448	37	1330
Stark, John, Jr. (See Moor, George C., assignor.)						
Stark, John W., Toledo, Ohio. Car-brake	343,502	June 8	1078	270	35	1209
Stark, Theodore C., assignor of one-half to W. A. Bruce, Vallejo, Cal. Fruit and flower picker and holder	348,357	Aug. 31	2668	719	36	990
Stark, William F., assignor to Standard Pump Manufacturing Company, New York, N. Y. Storage air-pump	342,714	May 25	2443	648, 649	35	982
Starka, Josef, assignor of one-half to C. Hurt, Chicago, Ill. Bridge-gate	342,270	May 18	1778	471	35	855
Starks, George. (See Lanner, Charles, assignor.)						
Starks, Nils O., assignor to Fuller & Johnson Manufacturing Company, (limited,) Madison, Wis. Shoe for mowing-machines	340,959	Apr. 27	2639	695, 696	35	492

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Starks, Nils O., Madison, Wis., assignor to Fuller & Johnson Manufacturing Company. Corn-planter	354,025	Dec. 7	545	148	37	1105
Starkweather, Gleason F., Evanston, assignor to N. S. Bouton, Chicago, Ill. Center seal for gas-works	344,060	June 22	1847	474	35	1364
Starkweather, Gleason F., Evanston, assignor to N. S. Bouton, Chicago, Ill. Center seal for gas-works	344,144	June 22	1966	502, 503	35	1385
Starky, Andrew B. (See Lewis and Starky.)						
Starley, John K., Coventry, county of Warwick, England, assignor to Pope Manufacturing Company, Hartford, Conn. Anti-friction bearing for velocipedes	351,001	Oct. 19	1303	342	37	251
Starley, John K., Meteor Works, Coventry, county of Warwick, England, assignor to Pope Manufacturing Company, Hartford, Conn. Roller-bearing	352,841	Nov. 16	1539	415	37	761
Starley, John K., Coventry, county of Warwick, England, assignor to Pope Manufacturing Company, Hartford, Conn. Roller-bearing for velocipedes	353,330	Nov. 30	2238	599, 600	37	909
Starr Electric Storage Company. (See Starr, Eli T., assignor.)						
Starr, Eli T., Philadelphia, Pa., assignor to Starr Electric Storage Company, Camden, N. J. Secondary battery	347,258	Aug. 10	1080	289	36	672
Starr, Eli T., Philadelphia, Pa., assignor to Starr Electric Storage Company, Camden, N. J. Electric-battery element or electrode	347,259	Aug. 10	1082	289	36	672
Starr, Eli T., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental pliers	340,856	Apr. 27	2556	673	35	476
Starr, Eli T., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Artificial tooth-crown	342,271	May 18	1780	472	35	855
Starr, Eli T., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Artificial tooth-crown	347,975	Aug. 24	2137	569	36	883
Starr, Eli T., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental impression-cup	347,976	Aug. 24	2138	569	36	883
Starr, Eli T., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Adjustable chair	348,173	Aug. 24	2414	646, 647	36	935
Starr, Ellen D., Chittenango, N. Y. Appliance for setting writing-copies	345,553	July 13	1080	276	36	200
Starr, Ferdinand W., Springfield, Ohio. Tool for cutting slots or kerfs in wood, &c	345,397	July 13	832	209	36	155
Starr, Ferdinand W., Springfield, Ohio. Vehicle-wheel	353,831	Dec. 7	250	67	37	1052
Starr, Harry B. (See Nesbitt, Amos K., assignor.)						
Starr, Horace C. (See Starr, William C., and H. C.)						
Starr, William C. and H. C., Richmond, Ind. Ornamenting chains	346,786	Aug. 3	412	.....	36	540
Startzman, George W., and E. C. Crain, assignors to P. P. Mast & Company, Springfield, Ohio. Fertilizer-distributer	347,838	Aug. 24	1932	513	36	847
States, John C., Boston, Mass. Combined embroidery frame and stand	347,743	Aug. 17	1789	477	36	811
Stätter, Adolph, and J. Hauser, Boston, Mass. T-square for book-binders' use	354,026	Dec. 7	548	149	37	1106
Statler, George F., Sioux City, Iowa. Shaft-support for vehicles	336,531	Feb. 16	2066	543	34	821
Stauffer, David F., York, Pa. Apparatus for treating bretzels and crackers	345,186	July 6	533	137	36	97
Stauffer, Peter, Lima, Ind. Snow-plow	350,327	Oct. 5	304	86	37	62
Staus, Henry F., Chester, Pa. Electric mail-box and indicator	337,796	Mar. 9	1219	317	34	1151
Staver, H. C. (See Ray, Frank B., assignor.)						
Stead, William H., Liverpool, county of Lancaster, England. Treating cotton-seed to remove the lint	340,635	Apr. 27	2201	579	35	414
Steadman, George H., Hopewell Cape, New Brunswick, Canada. Seal-lock	334,302	Jan. 12	1157	309	34	223
Stearns & Co., E. C. (See Seely, Obediah, assignor.)						
Stearns, Daniel, *et al.* (See Beebe, John S., assignor.)						
Stearns, Frank, and G. L. Wells, Creighton, Mo. Revolving shot-case	353,091	Nov. 23	1903	511	37	838
Stearns, Fredrick A., Waltham, Mass. Lamp-shade holder	339,708	Apr. 13	903	232	35	165
Stearns, Fredrick A., Boston, Mass. Shade-holder	351,717	Oct. 26	2333	608	37	447
Stearns, Henry F., assignor of one-half to E. G. Rawson, Saratoga, N. Y. Toboggan	354,947	Dec. 28	1890	498	37	1379
Stearns, James H., *et al.* (See Parker, Russell, assignor.)						
Stearns, James H., *et al.* (See Perkins and Sutton, assignors.)						
Stearns, James H., *et al.* (See Sutton, Benjamin F., assignor.)						
Stearns, Milo L., *et al.* (See Marston, David W., assignor.)						
Stearns, Norman W. (See Davis, Joseph, assignor.)						
Stearns, Norman W., and C. Grant, Jr., Boston, Mass. Cash and parcel transmitting apparatus for store-service	338,369	Mar. 23	2016	530	34	1312
Stebbins, Roswell O., New York, N. Y. Bottle-stopper	349,761	Sept. 28	1690	436	36	1384
Steber, Bernard T., Utica, N. Y. Match-machine	352,162	Nov. 9	653	172	37	586
Stechhan, Otto, Indianapolis, Ind. Bed-lounge	347,446	Aug. 17	1363	363	36	731
Steck, Ernst F., Chicago, Ill. Extension-ladder	348,594	Sept. 7	85	25	36	1063
Steck, Ernst F., Chicago, Ill., assignor to Fire Extinguisher Manufacturing Company. Lantern	349,618	Sept. 21	1476	381	36	1338
Stedman, John W. (See Thompson and Stedman.)						
Steefel, Barnard L. (See Schaffer and Steefel.)						
Steel, John T., *et al.* (See Cooper and Kohl, assignors.)						
Steel, Robert, Philadelphia, Pa. Apparatus for filling bottles with liquids	337,883	Mar. 16	1342	348	34	1180
Steel, Robert, Philadelphia, Pa. Carrousel	344,753	June 29	2794	723	35	1544
Steele, Charles E., *et al.* (See Wilson, Merrick F., assignor.)						
Steele, Charles R., *et al.* (See Wilson, Merrick F., assignor.)						
Steele, Edward D. (See Wooster, Frederick J., assignor.)						
Steele, Edward D., Waterbury, Conn. Button-fastener	335,393	Feb. 2	432	111	34	518
Steele, Edward D., Waterbury, Conn. Button-setting instrument	340,014	Apr. 13	1313	328	35	241
Steele, Elias M. (See Murphy, Daniel H., assignor.)						
Steele, George, New York, N. Y. Steam-boiler	347,014	Aug. 10	737	196	36	608
Steele, James, Guelph, Ontario, Canada. Vehicle-seat	351,943	Nov. 2	313	87	37	515
Steele, John E., Montgomery County, N. C. Cartridge-loading machine	354,264	Dec. 14	914	241, 242	37	1179
Steele, Oliver. (See Atkin and Steele.)						
Steen, Thomas D. (See Blackmore and Steen.)						
Steenbarger, Curtis M., assignor of one-fourth to W. I. and G. H. Thompson, Howard, Kans. Snow-plow	353,604	Nov. 30	2643	706	37	985
Steeneken, Diedrich, San Antonio, Tex. Safety oil-can	336,826	Feb. 23	2473	650	34	902
Steenrod, Irvin, Union City, Pa. Bag-holder	334,482	Jan. 19	1410	380	34	275
Steets, Louis, New York, N. Y. Tuning-hammer	342,051	May 18	1479	396	35	799
Steffen, Carl, Vienna, Austria-Hungary. Refining raw colored sugars	353,092	Nov. 23	1904	.....	37	839
Steffin, Albert. (See Shirley and Steffin.)						
Stehli, Jakob, assignor to Hartford Machine Screw Company, Hartford, Conn. Metal-screw machine	351,291	Oct. 19	1687	442, 443	37	321
Stehman, Edward S., Lancaster, Pa. Block for engravers' use	348,299	Aug. 31	2601	700	36	977
Steiger, Andrew W., assignor to J. A. Cabot and W. L. McCreary, New York, N. Y. Mechanical telephone	338,620	Mar. 23	2354	619	34	1371

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stein & Co., I. (See Lederle, Edward E., assignor.)						
Stein, Emanuel. (See Markoe, Frederick, assignor.)						
Stein Manufacturing Company. (See Roberts, John S., assignor.)						
Stein Manufacturing Company. (See Sparks, William A., assignor.)						
Steinbach Manufacturing Company. (See Sparks and Rappleyea, assignors.)						
Steinbach, William E., Philadelphia, Pa. Window-jack	347,260	Aug. 10	1083	289	36	672
Steinberger, Louis, New York, N. Y. Tool-handle	344,552	June 29	2538	656	35	1496
Steinberger, Louis, assignor of one-third to J. O'Connor, New York, N. Y. Axle and box for wheels	350,950	Oct. 19	1196	318	37	232
Steinberger, Louis, assignor of one-third to J. O'Connor, New York, N. Y. Self-lubricating hub	350,951	Oct. 19	1197	319	37	232
Steinbrecher, Charles. (See Steinbrecher, William H. and C.)						
Steinbrecher, William H. and C., Detroit, Mich. Combined double and single seated sleigh	335,649	Feb. 9	790	209, 210	34	589
Steinecke, Samuel, Brooklyn, N. Y., assignor to C. A. Schmidt, Hoboken, N. J. Manufacturing chenille fringe	353,433	Nov. 30	2392	638	37	938
Steiner, Josef, Brooklyn, assignor to Haskins & Steiner, New York, N. Y. Telegraph-instrument	354,814	Dec. 21	1697	448, 449	37	1331
Steiner, Josef, Brooklyn, assignor to Haskins & Steiner, New York, N. Y. Telegraph-instrument	354,815	Dec. 21	1698	449	37	1331
Steinle, William M., Brooklyn, N. Y., assignor to Raleigh Manufacturing Company, Pittsburg, Pa. Cigar-bunching machine	354,444	Dec. 14	1148	307, 308	37	1223
Steinle, William M., Allegheny City, assignor to Raleigh Manufacturing Company, Pittsburg, Pa. Cigar-machine	354,491	Dec. 14	1218	326	37	1235
Steinmetz, John C. (See Smith, Steinmetz, and Petry.)						
Steinmetz, Uriah G., Philadelphia, Pa. Umbrella	336,532	Feb. 16	2067	543	34	821
Steinmetz, Uriah G., Philadelphia, Pa. Umbrella	354,027	Dec. 7	549	149	37	1106
Stelle, Edward T., assignor to himself and A. B. Crofoot, Chicago, Ill. Felt boot	338,201	Mar. 16	1781	465	34	1263
Stelle, Randolph M., *et al.* (See Beach, William W., assignor.)						
Steller, Charles E., Milwaukee, Wis. Transom-support	340,015	Apr. 13	1314	328	35	241
Steller, Charles E., Milwaukee, Wis. Knob attachment	349,011	Sept. 14	654	169	36	1171
Stemmer, Salomon. (See Schurch, Albert, assignor.)						
Stentz, Michael, Albion, Ohio. Fence	344,211	June 22	2061	527	35	1403
Stephen, Andrew, Clinton, Iowa. Broom	336,169	Feb. 16	1551	409	34	729
Stephen, George M., Galesburg, Ill. Portable gas-holder	341,777	May 11	1112	295	35	723
Stephen, Joseph S., Joliet, assignor to himself and J. B. Shute, Chicago, Ill. Earth-auger	354,265	Dec. 14	916	242	37	1179
Stephens, Alexander H., Thompson's Station, Tenn. Car-coupling	340,897	Apr. 27	2557	673	35	476
Stephens, Anthony J. (See Lalley, Lang, and Stephens.)						
Stephens, Clements T., Ithaca, N. Y. Fire-grate	345,004	July 6	303	75	36	55
Stephens, Edward J., Pawtucket, R. I. Yarn-printing machine	338,314	Mar. 23	1935	509	34	1298
Stephens, J. C. (See Hufeland, Otto, assignor.)						
Stephens, Joseph J., Coalesburg, Mo. Instrument for measuring powders	343,776	June 15	1469	368	35	1286
Stephens, Joseph J., Coalesburg, Mo. Physician's buggy-case	344,212	June 22	2061	527	35	1403
Stephens, Judson W. (See Davis, William E., assignor.)						
Stephens, Richard, Illogan, county of Cornwall, England. Rock-drill	345,606	July 13	1148	294	36	212
Stephens, Roe. (See Desmond, John, assignor.)						
Stephens, Roe. (See Scott, William, assignor.)						
Stephens, Samuel, Central House, Cal. Gate	347,898	Aug. 24	2019	535	36	861
Stephens, Samuel, and D. B. Hanson, Indianapolis, Ind. Band-saw guide	334,818	Jan. 26	1859	495	34	366
Stephenson, Casper C., Escanaba, Mich. Ice-road machine	348,502	Aug. 31	2882	775	36	1031
Stephenson, Elmer E., and L. A. Lasher, San Francisco, Cal. Trace and whiffletree guard	347,899	Aug. 24	2020	535	36	861
Stephenson, James, East St. Louis, Ill. Refrigerator	334,726	Jan. 19	1741	465	34	336
Stephenson, John, New York, N. Y. Lamp-door latch for cars	336,170	Feb. 16	1551	409	34	729
Stephenson, John, New York, N. Y. Car gong-bell	339,342	Apr. 6	326	82	35	61
Stephenson, Richard. (See Coupal and Stephenson.)						
Stephenson, Robert S., *et al.* (See Gracey, Robert, assignor.) (Reissue.)						
Stepp, John P., assignor to J. H. Walbridge, Brooklyn, and E. P. Hoff, New York, N. Y. Inkstand	349,411	Sept. 21	1198	310	36	1283
Sterling, Clarence L., Detroit, Mich. Device for salting meat	341,357	May 4	540	149	35	602
Sterling, Joseph N., Springfield, Ohio. Roller-skate	346,512	Aug. 3	80	21, 22	36	475
Sterling, Sherwood. (See Christie, Jacob, assignor.)						
Sterling, Theodore W. (See Moreau, Eugène, assignor.)						
Stern, Aaron, New York, N. Y. Bustle	335,849	Feb. 9	1077	284	34	641
Stern, Philip K., Toronto, Ontario, Canada. Burglar-alarm system	351,408	Oct. 26	1889	493	37	362
Stern, William A., assignor of one-half to E. Ingold, Pittsburg, Pa. Municipal alarm service	333,975	Jan. 5	653	179	34	123
Stern, William A., Menlo Park, assignor to himself and T. A. Edison, Llewellyn Park, N. J. System of lighting railway-trains by electricity	346,388	July 27	2259	578, 579	36	432
Sternberg, Lothar, assignor to C. Uhl & Co., Brunswick, Germany. Separating sugar from saccharine fluids	339,231	Apr. 6	163	.....	35	32
Sternberg, James H. (See Vaughan, Aaron C., assignor.)						
Sterner, William N., and W. L. Hawes, assignors to Cincinnati Neck Yoke Company, Cincinnati, Ohio. Neck-yoke center	348,867	Sept. 7	441	118	36	1129
Stetser, Henry. (See Vangezell and Stetser.)						
Stetson, Amos H., Brookline, Mass. Lathe-chuck	354,266	Dec. 14	917	242	37	1180
Stetson, Amos H., Brookline, assignor to C. B. Wheelock, Braintree, Mass. Card or print hanger. (Reissue.)	10,739	June 22	2231	574	35	1434
Stetson, Charles T., Rockland, assignor of one-half to O. W. Whitcher, Hyde Park, F. W. Whitcher, Boston, and J. H. Emery, Quincy, Mass. Manufacture of metallic shanks for boots and shoes	339,117	Mar. 30	3082	815	34	1504
Stetson, Charles T., Rockland, assignor of one-half to O. W. Whitcher, Hyde Park, F. W. Whitcher, Boston, and J. H. Emery, Quincy, Mass. Metallic shank machine	352,495	Nov. 9	1074	289, 290	37	668
Stetson, George R., assignor to himself and Morse Twist Drill and Machine Company, New Bedford, Mass. Machine for clearing twist-drills	333,689	Jan. 5	255	69, 70	34	49
Stetson, George R., assignor to himself and Morse Twist Drill and Machine Company, New Bedford, Mass. Machine for rolling twist-drills	344,754	June 29	2795	723, 724	35	1544
Stetson, William H., *et al.* (See Loop, A. Irwin, assignor.)						
Stettinius, Joseph S., Washington, D. C. Manifold copying-book	344,061	June 22	1849	475	35	1365
Stevens, Abram W., Auburn, N. Y. Grinding mill	354,445	Dec. 14	1152	308	37	1224
Stevens, Alfred T., Ferry, Mich. Railway tie and chair	351,002	Oct. 19	1305	343	37	251
Stevens, Alonzo, Wausau, Wis. Saw-swage	340,016	Apr. 13	1315	328, 329	35	241
Stevens, Amos, Philadelphia, Pa. Hand force-pump	334,483	Jan. 19	1411	380	34	275
Stevens, Andrew J., Sacramento, Cal. Apparatus for burning petroleum	348,700	Sept. 7	232	61, 62	36	1089

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stevens Arms and Tool Company, J. (See Stevens and Warfield, assignors.)						
Stevens, Asher B., New Bridge, N. J., assignor, by mesne assignments, to Rocker Spring Company, Chicago, Ill. Combined tilting and swivel chair	355,280	Dec. 28	2363	621	37	1470
Stevens, Benjamin A., Toledo, Ohio. Meat-hook	336,671	Feb. 23	2277	595	34	865
Stevens, Benjamin A., Toledo, Ohio. Steam-beater	348,247	Aug. 31	2532	680	36	962
Stevens, Benjamin D., assignor of one-half to T. S. Peck, Burlington, Vt. Blind, shutter, or screen	333,565	Jan. 5	86	25	34	19
Stevens, Benjamin D., assignor of one-half to T. S. Peck, Burlington, Vt. Device for operating blind-slats	340,017	Apr. 13	1317	329	35	241
Stevens, Benjamin D., assignor of one-half to T. S. Peck, Burlington, Vt. Venetian blind	340,960	Apr. 27	2641	696	35	492
Stevens, Benjamin D., assignor of one-half to T. S. Peck, Burlington, Vt. Sliding blind, shutter, or screen	342,715	May 25	2445	649	35	983
Stevens, Benjamin D., assignor of three-fourths to T. S. Peck, Burlington, Vt. Refrigerator	345,607	July 13	1149	294	36	213
Stevens, Charles E., Northampton, Mass. Foot-power stand	354,446	Dec. 14	1153	308	37	1224
Stevens, Charles E., Northampton, Mass. Mechanism for grinding cutlery	354,447	Dec. 14	1153	308	37	1224
Stevens, Charles V., assignor of four-fifths to J. Clark and H. Wright, Somonauk, Ill. Windmill	333,566	Jan. 5	87	25	34	19
Stevens, Charles V., assignor of four-fifths to J. Clark and H. Wright, Somonauk, Ill. Windmill	333,567	Jan. 5	89	26	34	20
Stevens, Charles W., Beebe Plain, Quebec, Canada, assignor of one-half, by mesne assignments, to A. A. House, Bristol, Ohio. Meat and vegetable slicing machine	352,101	Nov. 2	540	143	37	560
Stevens, Fitz H., Gloucester, Mass. Oil-can	345,538	July 20	1353	352	36	256
Stevens, Frank M., New York, N. Y. Automatic lathe	337,530	Mar. 9	397	229	34	1093
Stevens, Frank M., New York, N. Y. Automatic lathe	344,926	July 6	181	46	36	33
Stevens, Frank M., New York, N. Y., assignor to Lebanon Pump Company, Lebanon, N. H. Pump	341,180	May 4	290	83	35	558
Stevens, George, Vassar, Mich. Plow-colter	343,503	June 8	1079	270	35	1210
Stevens, George C. (See Shute and Stevens.)						
Stevens, George E., Claremont, N. H. Hammock-support	352,842	Nov. 16	1541	415 416	37	761
Stevens, Henry H., Marengo, Ill. Spoke-socket	343,504	June 8	1080	270	35	1210
Stevens, Henry M., *et al.* (See Holbrook, Charles E., assignor.)						
Stevens, Irving D. (See Eberhart and Stevens.)						
Stevens, James H., Pine Bluff, Wyo. Ter. Game-carrier	349,465	Sept. 21	1276	331	36	1298
Stevens, James H., Pine Bluff, Wyo. Ter. Riveting-tool	349,466	Sept. 21	1277	332	36	1298
Stevens, James S., assignor of seven-tenths to G. Caunter, Avalon, Mo., and C. J. Kephart, Toledo, Iowa. Dish-washing cabinet	346,072	July 20	1815	469	36	339
Stevens, Jerome A. (See Stevens, Otho, assignor.)						
Stevens, John. (See Leonard and Stevens.)						
Stevens, John S., and C. G. Major, Battersea, county of Surrey, England. Combined door spring and check	333,568	Jan. 5	90	26	34	20
Stevens, Joshua, Chicopee Falls, Mass. Calipers and dividers	337,531	Mar. 9	900	229	34	1094
Stevens, Joshua, and O. D. Warfield, assignors to J. Stevens Arms and Tool Company, Chicopee Falls, Mass. Rapidly-adjustable nut for calipers and dividers	351,474	Oct. 26	1991	517	37	382
Stevens, Levi, Washington, D. C. Steam-boiler furnace	351,475	Oct. 26	1992	518	37	382
Stevens, Otho, assignor of one-half to J. A. Stevens, Spring Valley, Minn. Traction-engine	343,969	June 15	1713	438	35	1334
Stevens, Richard W., Alton, Ill. Back-band buckle and chain-supporter	341,516	May 11	756	203	35	653
Stevens, Samuel F., North Adams, Mass. Railway passenger-tariff and distance guide-book	348,595	Sept. 7	88	26	36	1063
Stevens, Samuel F., North Adams, Mass. Railway passenger-tariff and distance guide-book	348,596	Sept. 7	91	26, 27	36	1063
Stevens, Sidney N., North Lawrence, N. Y. Buckle	352,277	Nov. 9	807	216	37	614
Stevens, W. H. (See Furbish, Zachary T., assignor.)						
Stevens, Wellington D. (See Pool, William H., assignor.)						
Stevens, William. (See Slater and Stevens.)						
Stevens, William, Philadelphia, Pa. Elevator	348,597	Sept. 7	93	27	36	1064
Stevens, William H. (See Gibson, Selden F., assignor.)						
Stevens, William H. (See Gibson and Lawrence, assignors.)						
Stevens, William H. (See Sanborn, William H., assignor.)						
Stevens, William L. (See Mason, Wescott, and Stevens.)						
Stevens, William L., Dorchester, Mass. Electrical meter	346,957	Aug. 10	654	175	36	594
Stevens, William L., Cedarville, N. J. Chimney-cap	347,394	Aug. 17	1284	342	36	718
Stevenson, Albert B., and J. Stuempges, Stevenson's Pier, Wis. Saw-gummer	337,532	Mar. 9	901	229	34	1094
Stevenson, Charles M., Syracuse, N. Y. Beading-tool	333,690	Jan. 5	257	70	34	50
Stevenson, Clarence H., Hastings, Minn. Flight-extractor for screw-conveyers for flour-mills	339,591	Apr. 6	728	179	35	127
Stevenson, Francis R., Erie, Pa. Boiler water-alarm	353,513	Nov. 30	2509	669	37	960
Stevenson, Holland N., Pittsfield, Mass. Parallel ruler	344,014	June 22	1779	458	35	1352
Stevenson, Thomas F. (See Andrew, John, assignor.)						
Stevenson, William A. (See Ludlum and Stevenson.)						
Stevenson, William A. (See Moseman, Willett W., assignor.)						
Stevenson, William A., Brooklyn, N. Y. Curtain-pole and banner-rod	348,701	Sept. 7	234	62	36	1089
Stevenson, William H. H., Baltimore, Md. Machine for heading sheet-metal cans	349,373	Sept. 21	1148	296 297	36	1273
Stevenson, William M., Adelaide, South Australia. Ticket-case	335,095	Jan. 26	2233	592	34	433
Steward, George H. (See Hunt and Steward.)						
Steward, John F. (See Kennedy and Steward.)						
Steward, John F., Chicago, Ill. Platform-adjustment for harvesters	341,358	May 4	541	149	35	602
Steward, John F., Chicago, Ill. Pitman-rod connection	342,716	May 25	2447	649	35	983
Steward, John F., Chicago, Ill. Variable-spacing mechanism for type-writing machines	344,213	June 22	2062	528	35	1403
Steward, John F., Chicago, Ill. Harvester-reel	346,232	July 27	2034	525	36	391
Steward, John F., Chicago, Ill. Self-binding harvester	346,233	July 27	2037	525 526	36	391
Stewart, Alexander, Philadelphia, Pa. Lamp	346,829	Aug. 3	461	127	36	550
Stewart, Andrew T., Concord, assignor of one-half to G. S. Sheffield, Three Rivers, Mich. Land-marker	337,092	Mar. 2	278	74	34	978
Stewart, Arthur, assignor to Stewart & Mattson Manufacturing Company, Philadelphia, Pa. Padlock	345,187	July 6	534	137	36	98
Stewart & Bruckner. (See Gardner, Jefferson M., assignor.)						
Stewart, Charles C., Oneonta, N. Y. Hoisting device	351,293	Oct. 19	1693	444	37	322
Stewart, Clarence F., Norwalk, Ohio. Machine for making dowel-pins	351,292	Oct. 19	1692	444	37	322
Stewart, David M. (See Day, John W., assignor.)						
Stewart, Edmund P. (See Baldwin, Charles E., assignor.)						
Stewart, Edmund P., New York, N. Y. Cigar-cutter	350,217	Oct. 5	173	50	37	36

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stewart, Frank L., Dover, Me., assignor to himself, and B. Packard, Lowell, Mass. Fire-kindler	342,814	June 1	53	.....	35	1016
Stewart, George W., New York, N. Y. Telegraphic instrument	344,505	June 29	2472	635	35	1484
Stewart, George W., assignor of one-half to S. J. Cox, New York, N. Y. Transmitter and sounder	350,644	Oct. 12	775	212	37	148
Stewart, George W., assignor to National Suspender Company, New York, N. Y. Fastening device for suspenders	353,893	Dec. 7	350	94	37	1071
Stewart, James, Chicago, Ill. Oil-cup	347,839	Aug. 24	1933	513	36	847
Stewart, James O., Spirit Lake, Iowa. Wood-type case	335,850	Feb. 9	1077	284	34	641
Stewart, John, Newark, N. J. Press	334,485	Jan. 19	1413	380, 381	34	276
Stewart, John, Newark, N. J. Operating railways by cables	350,168	Oct. 5	98	28, 29	37	21
Stewart, John L., Philadelphia, Pa. Apparatus for manufacturing gas	333,691	Jan. 5	258	70, 71	34	50
Stewart, John L., Philadelphia, Pa. Manufacturing gas	333,692	Jan. 5	262	71, 72	34	51
Stewart, John L., Philadelphia, Pa. Apparatus for manufacturing gas	333,693	Jan. 5	267	72, 73	34	51
Stewart, John L., and J. L. Hastings, Philadelphia, Pa. Process of and apparatus for baking or firing compounds of plastic material, &c	350,567	Oct. 12	659	180	37	126
Stewart, John M., and J. A. Robertson, Spencer, Ind. Book-holder	338,200	Mar. 16	1780	465	34	1263
Stewart, Joseph, Mount Vernon, N. Y. Yarn-carrier for knitting-machines	348,503	Aug. 31	2884	775, 776	36	1031
Stewart & Mattson Manufacturing Company. (See Stewart, Arthur, assignor.)						
Stewart, Robert, London, county of Middlesex, England. Boiler-covering	349,183	Sept. 14	886	228	36	1214
Stewart, Scott, Rivesville, W. Va. Key-board	334,484	Jan. 19	1412	380	34	275
Stewart, William, Brooklyn, N. Y. Bottle-stopper	339,592	Apr. 6	729	179	35	128
Stewart, William M., trustee. (See Lucas, John, assignor.)						
Stewart, William M., trustee. (See Wright, William A., assignor.)						
Stewart, William W., Brooklyn, N. Y. Fountain-pen	351,718	Oct. 26	2334	608	37	447
Stewart, William W., Brooklyn, N. Y. Fountain pen-holder	354,664	Dec. 21	1490	395, 396	37	1291
Stiegelmaier, William H., Geneva, N. Y. Electric temperature-alarm and thermostat	351,134	Oct. 19	1480	388	37	283
Stieglitz, Martha S., New York, N. Y. Sad-iron	349,263	Sept. 14	995	254	36	1235
Stiemke, Edward. (See Schellenberg and Stiemke.)						
Stienbarger, Sheldon A., Augusta, Ill. Plow attachment	350,085	Sept. 28	2130	551	36	1469
Stieringer, Luther, New York, N. Y., assignor to Edison Lamp Company, Harrison, N. J. Incandescing electric lamp	341,778	May 11	1113	295	35	723
Stieringer, Luther, and J. H. Vail, New York, N. Y. House-wiring for electric lights	343,087	June 1	442	112, 113	35	1087
Stierle, Charles, assignor of one-half to G. Heinemann, St. Paul, Minn. Sanitary cuspidor	344,015	June 22	1780	459	35	1352
Stiff, Charles W., Foxborough, Mass. Timing attachment for photographic cameras	336,356	Feb. 16	1831	480, 481	34	779
Stiff, Charles W., and J. Watrous, Foxborough, Mass. Book-cover protector	350,508	Oct. 12	576	160	37	112
Stiff, Charles W., and J. Watrous, Foxborough, assignors of one-third to J. B. McCune, Chicopee, Mass. Lamp-burner	354,267	Dec. 14	918	243	37	1180
Stiff, Charles W., and J. Watrous, Foxborough, assignors of one-third to J. B. McCune, Chicopee, Mass. Flame regulator and extinguisher for lamp-burners	354,268	Dec. 14	920	243	37	1180
Stiff, William C., and H. B. S. Bennett, Birmingham, county of Warwick, England. Manufacture of seamless tubes	340,526	Apr. 20	2042	525	35	379
Stigler, Augusto, Milan, Italy. Bearing	337,884	Mar. 16	1344	348	34	1180
Stiker, Flavius P., Buffalo, N. Y. Game apparatus	343,088	June 1	446	113	35	1088
Stiles, Frederick, assignor to M. E. Stiles and D. B. Cooke, Binghamton, N. Y. Tobacco-drier	351,409	Oct. 26	1895	494	37	363
Stiles, George A., Newark, N. J. Cyclometer	345,188	July 6	535	137	36	98
Stiles, Mary E., *et al.* (See Stiles, Frederick, assignor.)						
Stiles, Norman C., Middletown, Conn. Copying apparatus	343,505	June 8	1081	270	35	1210
Stiles, Sidney L., assignor of seventy-one one-hundredths to G. B. Daniels, Watseka, Ill., J. G. Hobbie, Cleveland, Ohio, and R. Butterfield, Chicago, Ill. Corn-planter	344,214	June 22	2064	528, 529	35	1403
Stiles, William C., *et al.* (See Tyler, George, assignor.)						
Still, Henry, Beloit, Kans. Car-axle box	349,762	Sept. 28	1691	436	36	1384
Still, Henry, Beloit, Kans. Car-axle box	353,647	Nov. 30	2723	727	37	998
Stillman, Charles A., Westerly, R. I., assignor to C. B. Cottrell, Stonington, Conn. Inking apparatus for lithographic machines	338,370	Mar. 23	2020	531	34	1312
Stillman, Charles F., New York, N. Y. Trotting-sulky	335,650	Feb. 9	791	210	34	589
Stillman, Charles F., New York, N. Y. Trotting-sulky	335,651	Feb. 9	792	210	34	589
Stillman, Charles F., New York, N. Y. Trotting-sulky	335,652	Feb. 9	793	210, 211	34	589
Stillman, Charles F., New York, N. Y. Trotting-sulky	350,169	Oct. 5	103	29	37	21
Stillman, Henry B. (See Patterson and Stillman.)						
Stillman, Herbert L., Allenton, R. I. Railway	341,699	May 11	1021	270	35	705
Stillman, Ira B. Hornellsville, N. Y. Fence	341,359	May 4	545	149	35	603
Stillman, Joseph F., Brookline, Mass. Bone-black revivifier	350,170	Oct. 5	104	30	37	21
Stillman, Orsemus G., Hornellsville, N. Y. Stilt	351,294	Oct. 19	1695	444	37	322
Stillman, William L. Watson, N. Y. Vehicle-axle	351,295	Oct. 19	1696	444	37	323
Stilwell, Silas M. (See Lockwood, William C., assignor.)						
Stimpson, Edwin B. and Edwin B., Jr., Brooklyn, N. Y. Perforating-machine	345,189	July 6	536	137, 138	36	98
Stimpson, Edwin B. and Edwin B., Jr., Brooklyn, N. Y. Perforating-machine	345,190	July 6	538	138	36	98
Stimpson, Edwin B., Jr., Brooklyn, N. Y. Machine for setting lacing-studs	349,412	Sept. 21	1199	310	36	1283
Stimpson, Edwin B., Jr., Brooklyn, N. Y. Rotary perforating-machine	354,665	Dec. 21	1494	396	37	1291
Stimson, Charles H., Jr., Newark, Ohio. Machine for making pills, &c	342,717	May 25	2448	650	35	983
Stimson, David S., Concord, N. H. Dust-guard for car-axle boxes	351,944	Nov. 2	314	87	37	515
Stimson, Henry D., Philadelphia, Pa. Machine for cutting paper boxes, &c	341,700	May 11	1021	270	35	705
Stinard, Stephen R., Pompton, N. J. Car-axle box	354,448	Dec. 14	1154	309	37	1224
Stine, Samuel B., and J. V. Smith, Osceola Mills, Pa. Coal-mining machine	343,346	June 8	852	215	35	1169
Stine, William A. (See Cole, Charles L., assignor.)						
Stines, Michael W., Dayton, Ohio. Stencil	338,621	Mar. 23	2355	619	34	1371
Stinson, Albert F., and J. S. Sanders, Grand Junction, Tenn. Combined hoe and rake	351,296	Oct. 19	1697	445	37	323
Stinson, Charles K., assignor to Eureka Clothes Wringing Machine Company, Boston, Mass. Clothes-wringer	341,819	May 11	1169	312	35	734
Stinson, Charles K., Boston, assignor to L. Ladd, Needham, Mass. Clothes-wringer	343,970	June 15	1714	438	35	1334
Stirgis, Herbert M., Hillsborough, Tex. Combination-lock for money-drawers, &c	338,205	Mar. 16	1785	466	34	1264
Stites, George, Pleasant Valley, Kans. Combined land-anchor and lightning-conductor for buildings	351,813	Nov. 2	117	32	37	480
Stitt, William S. (See Enell, Otto E., assignor.)						
Stitzel, Frederick, and C. Weinedel, assignors of two-thirds to J. H. Eckelhoff, O. Mueller, A. Reutlinger, and M. Schwartz, Louisville, Ky. Semaphore	344,755	June 29	2796	724	35	1544

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stobaeus, John B. (See Metzger, Gustav, assignor.)						
Stober, Frederick C. and H. A., Sacramento, Cal. Beer or fluid drips	343,741	June 15	1429	357	35	1279
Stober, Henry A. (See Stober, Frederick C. and H. A.)						
Stocker, Howard J., *et al.* (See Remillon, Eugene J., assignor.)						
Stocker, Matilda, New York, N. Y. Pattern-lining	337,030	Mar. 2	203	54	34	963
Stocking, Edgar B., Washington, D. C. Reducing old railway-rails to plates	339,118	Mar. 30	3082	816	34	1504
Stockinger, Philip J., San José, Cal. Bale and box hook	338,885	Mar. 30	2749	723	34	1447
Stockman, Henry, Philadelphia, Pa. Last-supporting jack	340,062	Apr. 13	1374	345, 346	35	251
Stockman, Henry, Philadelphia, Pa. Last-supporting jack	340,063	Apr. 13	1376	346	35	252
Stockstrom, Charles A., assignor of one-half to L. Stockstrom, St. Louis, Mo. Gasoline-stove attachment	350,094	Sept. 28	2138	553, 554	36	1471
Stockstrom, Charles A. and L., St. Louis, Mo. Vapor-burner	350,086	Sept. 28	2131	551	36	1469
Stockstrom, Louis. (See Stockstrom, Charles A., assignor.)						
Stockstrom, Louis. (See Stockstrom, Charles A. and L.)						
Stockstrom, Louis, St. Louis, Mo. Gasoline-stove	350,087	Sept. 28	2132	552	36	1469
Stockton, James K., assignor of one-half to M. A. Schneider, Brooklyn, N. Y. Bureau-bed	349,467	Sept. 21	1278	332	36	1298
Stockton, Samuel, Lambertville, N. J. Corpse-preserver	340,528	Apr. 20	2044	525, 526	35	380
Stockwell, Emory. (See Taylor and Stockwell.)						
Stockwell, James W. (See Perry, Reuben W., assignor.)						
Stockwell, Levi W., assignor to Cleveland Electric Motor Company, Cleveland, Ohio. Commutator-brush	337,885	Mar. 16	1345	349	34	1180
Stoddard & Co., J. W. (See Stoddard and Rossell, assignors.)						
Stoddard, Calvin T. (See Little and Stoddard.)						
Stoddard, E. Fowler, assignor to Stoddard Manufacturing Company, Dayton, Ohio. Harrow	347,530	Aug. 17	1473	390, 391	36	752
Stoddard, E. Fowler, assignor to Stoddard Manufacturing Company, Dayton, Ohio. Harrow	347,744	Aug. 17	1791	477	36	811
Stoddard, E. Fowler, assignor to Stoddard Manufacturing Company, Dayton, Ohio. Harrow	347,745	Aug. 17	1793	478	36	811
Stoddard, E. Fowler, and J. M. Rossell, assignors to J. W. Stoddard & Co., Dayton, Ohio. Mowing-machine	336,267	Feb. 16	1707	445	34	755
Stoddard Manufacturing Company. (See Stoddard, E. Fowler, assignor.)						
Stoddard, Oscar, Detroit, Mich. Knob attachment	334,819	Jan. 26	1860	495	34	367
Stoffel, William, McHenry, Ill. Cylinder-cock	350,276	Oct. 5	241	70	37	50
Stoflet, Jacob F., Allentown, and A. S. Seaman, Frackville, Pa. Water-cooler	341,391	May 4	591	162	35	612
Stögermayr, Franz F., assignor of one-half to V. Glassner, Vienna, Austria-Hungary. Induction-coil	351,077	Oct. 19	1400	368	37	268
Stohlmann, Frederick A., Brooklyn, assignor to G. Tiemann & Co., New York, N. Y. Stomach-pump	340,739	Apr. 27	2352	619	35	439
Stohlmann, Frederick A., Brooklyn, assignor to G. Tiemann & Co., New York, N. Y. Surgical-needle holder	348,537	Aug. 31	2936	789	36	1041
Stokes, Albert. (See McGee and McMahon, assignors.)						
Stokes, I. N. Phelps, New York, N. Y. Magazine-gun	339,343	Apr. 6	327	82 83	35	61
Stokes, John W., Pana, Ill. Balanced slide-valve	342,763	May 25	2514	671	35	976
Stokes, Russell T., Garnett, Kans. Combined hopple and tail-holder	349,124	Sept. 14	812	206	36	1199
Stoll, Jacob, Milwaukee, Wis. Tuyere	337,886	Mar. 16	1347	349	34	1181
Stoll, John T., Sacramento, Cal. Hopple	344,215	June 22	2067	529	35	1404
Stoll, Louis S., Arcadia, Iowa. Gate-latch	339,594	Apr. 6	732	180	35	128
Stollwerck, Gebr. (See Michaelis, Hugo, assignor.)						
Stollwerck, Gebr. (See Stollwerck, Heinrich, assignor.)						
Stollwerck, Heinrich, assignor to Gebr. Stollwerck, Cologne-on-the-Rhine, Germany. Staircase	353,605	Nov. 30	2645	706	37	985
Stolte, Henry, Troy, Ill. Combined writing-desk and bureau or other piece of furniture	342,883	June 1	154	39	35	1034
Stoltenberg, Hans A. (See Hess and Stoltenberg.)						
Stolzle's Söhne, C. (See Beretz, Ludwig, assignor.)						
Stombs, Charles H. (See Smiley, Thomas J. L., assignor.)						
Stompe, Joseph. (See Miller, Charles, assignor.)						
Stone, Charles E., Amesbury, Mass. Drill-chuck	339,595	Apr. 6	733	180	35	129
Stone, Charles F., Chicago, Ill. Holding dies	338,202	Mar. 16	1782	465	34	1263
Stone, Charles H. (See Duryea, Charles E., assignor.)						
Stone, Elias S., LaGro, Ind. Barrel-truck	346,958	Aug. 10	657	175	36	594
Stone, Frank, Worcester, Mass. Pneumatic action for musical instruments	353,894	Dec. 7	351	94	37	1071
Stone, Frank, Worcester, Mass. Organ-coupler	353,895	Dec. 7	353	94	37	1071
Stone, Frank, Worcester, Mass. Pneumatic engine for musical-instrument actions	355,229	Dec. 28	2294	605	37	1457
Stone, Frank, assignor to Munroe Organ Reed Company, Worcester, Mass. Sub-bass attachment for reed-organs	340,636	Apr. 27	2202	579	35	414
Stone, George A. (See Stubbs, Jesse, assignor.)						
Stone, Henry N. (See Edgerly, Curtis C., assignor.)						
Stone, Herbert F., assignor to Appleton Manufacturing Company, Appleton, Wis. Grinding-mill	350,509	Oct. 12	577	160	37	112
Stone, James, *et al.* (See Gardner, Marshall, assignor.)						
Stone, James, Aurora, Ill. Corset	341,701	May 11	1022	270	35	706
Stone, James, assignor of two-thirds to A. M. Ball, Aurora, and E. Florsheim, Chicago, Ill. Corset-lacing	349,184	Sept. 14	887	228	36	1214
Stone, James, assignor of two-thirds to A. M. Ball, Aurora, and E. Florsheim, Chicago, Ill. Combined corset and skirt supporter	352,163	Nov. 9	655	172	37	586
Stone, James, and M. Gardner, Aurora, assignors to said Stone, E. Florsheim, Chicago, and A. M. Ball, Astoria, Ill. Stiffening for corsets	351,344	Oct. 19	1755	462	37	334
Stone, James, and M. Gardner, Aurora, assignors to said Stone, E. Florsheim, Chicago, and A. M. Ball, Aurora, Ill. Constructing corsets	351,345	Oct. 19	1758	463	37	334
Stone, James R., Samsville, Ill., assignor of three-fourths to T. J. and E. S. Wilhite and H. Wagner. Band-cutter and feeder	339,119	Mar. 30	3084	816	34	1505
Stone, John, Plattsburg, Mo. Railway supply-tank	335,851	Feb. 9	1078	285	34	641
Stone, John A., Philadelphia, Pa. Combination-tool	342,884	June 1	156	39	35	1034
Stone, John B., Matherton, and J. Pennington, Pewamo, Mich. Car-coupling	350,399	Oct. 5	390	112	37	78
Stone, John H., Hamilton, Ontario, Canada. Tubular lantern	349,763	Sept. 28	1692	437	36	1384
Stone, Lawson B., Marblehead, Mass. Automatic sprinkler	349,764	Sept. 28	1693	437	36	1384
Stone, Lawson B., Marblehead, Mass., assignor to American Automatic Fire Alarm Association, Portland, Me. Thermostat	351,719	Oct. 26	2337	608	37	447
Stone, Lorenzo, Providence, R. I. Spool and bobbin	335,783	Feb. 9	989	262	34	625
Stone, Lyman G. (See Prentiss, Stone, and Fisher.)						
Stone, Marvin C., Washington, D. C. Mouth-piece for cigarettes	345,869	July 20	1537	397	36	287

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stone, Osborn M., and G. A. Platt, Augusta, Ga. Cotton-gin attachment	343,260	June 8	708	176	35	1144
Stone, Reuben R., New York, N. Y. Bottle-filling device	339,709	Apr. 13	904	222	35	165
Stone, Roderick G., Boston, Ga. Semaphore	351,003	Oct. 19	1306	313	37	251
Stone, Samuel, North Manchester, Conn., assignor to Neversliip Horseshoe Company, Boston, Mass. Horseshoe-calk	335,395	Feb. 2	433	111	34	519
Stone, William A., Eddyville, Ill. Hoop-shaving machine	352,496	Nov. 9	1077	290	37	668
Stone, William M., and H. Dundas Keeseville, N. Y. Device for sorting horseshoe-nails	355,109	Dec. 28	2114	556	37	1420
Stoneman, William J., Albany, N. Y. Awning	333,569	Jan. 5	93	27	34	20
Stonemetz, John H., Erie, Pa. Paper-folding machine	355,096	Jan. 26	2233	593	34	433
Stonemetz, John H., Erie, Pa. Sheet-conveyer device between printing and folding machines	343,677	June 15	1321	330	35	1260
Stoner, Abraham, Stony Point, La. Turning-machine	341,182	May 4	293	83	35	558
Stoner, Augustus, New York, N. Y. Permutation-lock	338,886	Mar. 30	2750	723	34	1447
Stoops, William H., Boonton, N. J. Seal-lock for milk-cans	343,207	June 8	639	157	35	1130
Stoppa, Clemente, Philadelphia, Pa. Cigarette holder	340,064	Apr. 13	1379	347	35	252
Storck, Frank, Cincinnati, Ohio. Dumping-cart	338,802	Mar. 30	2627	692	34	1425
Storer, John H., *et al.* (See Kensett, James W., assignor.)						
Storer, Orrin W., Snelling, Cal. Liniment	352,278	Nov. 9	808	.....	37	614
Storey, Joseph. (See Wilson and Storey.)						
Storie, James D., Oshawa, Ontario, Canada. Grinding machinery	340,637	Apr. 27	2204	580	35	414
Storm, Edward, Poughkeepsie, N. Y. Vehicle-spring	344,216	June 22	2068	529 / 530	35	1404
Storm, Edward, Poughkeepsie, N. Y. Fifth-wheel	344,756	June 29	2798	724	35	1545
Storm, George, New York, N. Y. Treating tobacco	337,456	Mar. 9	802	204	34	1077
Storm, George, New York, N. Y. Treating tobacco	337,457	Mar. 9	805	204	34	1077
Storms, James A., and T. A. Arnold, North Tarrytown, N. Y. Car-coupling	336,871	Feb. 23	2528	667	34	912
Story, A. G. (See Weaver, William, assignor.)						
Story, Ephraim J., Washington, D. C. Fire-grate	346,830	Aug. 3	462	127	36	550
Stossmeister, Albert W. (See Bodley, Abram M., assignor.)						
Stotlemeyer, Devolt, Hancock, Md. Agricultural fork	348,300	Aug. 31	2603	700	36	977
Stott, James, London, England. Gas-regulator	352,072	Nov. 2	494	133 / 134	37	552
Stott, James, London, England. Gas-regulator	354,844	Dec. 21	1733	459	37	1338
Stotz, Frederick, and A. Heusch, Chicago, Ill. Bottle-washing machine	354,492	Dec. 14	1220	326 / 327	37	1236
Stough, Charlie B. (See Jordan and Stough.)						
Stough, John G. and U. C., Dover, Pa. Windmill	338,203	Mar. 16	1783	465	34	1263
Stough, Urias C. (See Stough, John G. and U. C.)						
Stout, Amanda E., Lakewood, N. J. Shoulder-brace and bust-supporter	342,309	May 18	1846	488	35	866
Stout, George H., Chapel Hill, N. J. Electric motor	338,622	Mar. 23	2356	620	34	1371
Stout, James A., assignor to Harrison Machine Works, Bellville, Ill. Trottle-valve	344,217	June 22	2069	530	35	1404
Stout, John R., Brooklyn, N. Y. Package for and method of packing confectionery	342,473	May 25	2095	554	35	919
Stout, Jonathan. (See Cross and Stout.)						
Stout, Meadowcroft & Co. (See Criado, Louis F., assignor.)						
Stout, Mills & Temple. (See Gilbert, Henry J., assignor.)						
Stover, Atkins, Brooklyn, N. Y. Faucet for beer and other liquids	342,052	May 18	1480	396	35	799
Stover, Daniel C., Freeport, Ill. Grinding-mill	347,531	Aug. 17	1477	392	36	753
Stover, Ira, *et al.* (See Eirick, Luther M., assignor.)						
Stow, Lorenzo, Rome, Tenn. Horse hay-rake	341,517	May 11	757	203	35	653
Stowe, Aaron F., Worcester, Mass. Leather-splitting machine	346,389	July 27	2262	579	36	432
Stowe, Aaron F., Worcester, Mass. Leather-splitting machine	353,235	Nov. 23	2102	563	37	878
Stowe, Benjamin L., Brooklyn, assignor to J. V. Reed, New York, N. Y. Belting. (Reissue)	10,777	Nov. 2	550	145	37	561
Stowe, Lyman E. (See Mellick, Orlando C., assignor.)						
Stowell, Nellie S., New York, N. Y. Transferable letter for signs	339,232	Apr. 6	164	43	35	32
Stowell, Oliver G. (See Penn, George W., assignor.)						
Strachan, John. (See Black and Strachan.)						
Strachan, Thomas F., Jr. (See Craig and Strachan.)						
Strader, Levi T., *et al.* (See Gray, Henry F., assignor.)						
Strader, Levi T., H. F. Gray and I. J. Burgess, Columbus, Ohio, assignors to said Strader. Knockdown or folding table	349,185	Sept. 14	889	228	36	1214
Strahan, John T., Grand Rapids, Mich. Wardrobe folding bed	348,643	Sept. 7	151	42	36	1075
Strahan, Simon, Chicago, Ill. Ornamental balnster and spindle	349,669	Sept. 21	1535	396	36	1350
Strahan, Thomas, Chelsea, Mass. Fabric for wall decoration and other purposes	345,191	July 6	540	.....	36	99
Straight, Asa W., Ypsilanti, Mich. Adjustable measuring-chamber for faucets	341,518	May 11	758	204	35	654
Strain, Edwin, Melrose, assignor to M. S. Cahill, Boston, Mass. Needle	353,040	Nov. 23	1829	492	37	823
Strait, Andrew V., assignor to himself, F. A. Jennings, S. M. Thornton, P. L. Ritton, and E. W. Griggs, Sidney Plains, N. Y. Advertising attachment for clocks	345,739	July 20	1354	353	36	256
Stranahan, William G., Minneapolis, Minn. Blind-nailing plane	345,870	July 20	1538	397	36	288
Strand, Charles W., Cleveland, Ohio. Frame-work for skylights	350,448	Oct. 5	475	134	37	91
Strang, Lew K., Gloucester, Mass. Fruit-extractor	344,506	June 29	2473	635	35	1484
Strange, Howell M., Beaver Valley, Ala. Harrow	346,959	Aug. 10	658	175	36	594
Strasin, John. (See Shafer and Strasin.)						
Strater, Herman, Boston, Mass. Stuffing-box	342,815	June 1	54	14	35	1016
Stratton, Francis E. (See Brown and Stratton.)						
Stratton, George, Plainview, Minn. Repairing rails	354,493	Dec. 14	1222	327	37	1236
Stratton, James and W. J., Brooklyn, N. Y. Night-light	352,718	Nov. 16	1383	374	37	732
Stratton, James H. (See Denmead, John W., assignor.)						
Stratton, William D., Boston, Mass. Buckle	347,015	Aug. 10	739	196	36	609
Stratton, William J. (See Stratton, James and W. J.)						
Straub, Carl, Syracuse, N. Y. Composition for use in the manufacture of artificial marble	353,896	Dec. 7	355	.....	37	1072
Straub, Theodore F., Allegheny, Pa. Clarifying beer and charging the same with carbonic-acid gas	336,073	Feb. 9	1392	368	34	695
Straube, Otto, Spandau, Germany. Pneumatic device for discharging fire-arms, &c	348,868	Sept. 7	412	118	36	1129
Straubel, Richard, New York, N. Y. Eyeglasses	349,413	Sept. 21	1201	311	36	1284
Straup, Thomas P., South Easton, Pa. Wire-drawing device	354,991	Dec. 28	1945	513	37	1389
Strauss, William, *et al.* (See Lochbaum, Norbert, assignor.)						
Straw, Love, Cambridge, assignor of one-half to J. Cummings, Boston, Mass. Trunk	343,971	June 15	1716	439	35	1334
Streator, Henry D., Galesburg, Mich. Refrigerator-safe for bread, cake, &c	335,157	Feb. 2	81	22	34	456
Streator, Henry D., Galesburg, Mich. Refrigerator-safe for bread, &c	351,076	Oct. 19	1399	368	37	268
Streck, Sullivan S., New Orleans, La. Time-calculator	337,533	Mar. 9	902	230	34	1094
Street Car Money Drawer Company. (See Harrison, William H., assignor.)						
Street, Edgar L., Johnstown, Pa. Friction-clutch	354,494	Dec. 14	1222	327	37	1236
Street, George W., Chicago, Ill., and J. S. Watters, Baltimore, Md. Bedclothing-clamp for beds	332,497	Nov. 9	1078	290	37	668

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Street, John W., Chicago, Ill. Apparatus for feeding stock on cars	336,873	Feb. 23	2540	669	34	915
Street, John W., assignor of one-half to S. M. Fischer, Chicago, Ill. Stock-car	336,872	Feb. 23	2530	667 668	34	913
Street, Samuel T., Deposit, N. Y. Railway-signal	354,992	Dec. 28	1946	514	37	1389
Streeter, Alfred L., Chicago, Ill. Brake	345,652	July 13	1232	318	36	228
Streeter, George D. (See Ramsey, Haley S., assignor.)						
Streeter, H. A. (See Amet, Edward H., assignor.)						
Streeter, Herbert E. (See Low and Streeter.)						
Streich, William F., Chicago, Ill. Thread-cabinet	344,792	June 29	2846	737	35	1555
Stretch, Drew, Liverpool, England. Freight-handling mechanism	350,704	Oct. 12	853	230	37	162
Stretch, Robert, Chicago, Ill. Steam and water gage	350,510	Oct. 12	579	160 161	37	113
Stretch, Robert, Chicago, Ill. Safety water-gage	351,814	Nov. 2	118	33	37	480
Stretcher, Howard, assignor to J. A. Donohue, Cincinnati, Ohio. Piano-pedal stool	345,005	July 6	304	76	36	55
Stribling, John V., Westminster, S. C. Steering apparatus for traction-engines	348,538	Aug. 31	2937	789	36	1041
Strickland, George W., San Francisco, Cal. Ornamental border for flower-beds, &c	348,598	Sept. 7	94	27	36	1064
Strickland, Thomas J., Randolph, Mass. Bicycle-shoe	343,777	June 15	1470	368	35	1287
Strickland, Thomas J., Randolph, Mass. Bicycle-pedal	347,977	Aug. 24	2139	570	36	883
Strickland, Thomas J., assignor to himself and G. L. Pierce, Randolph, Mass. Bicycle-shoe	350,705	Oct. 12	855	230	37	163
Strickland, Wilbur S., Bethel, Ohio. Running-gear for vehicles	353,236	Nov. 23	2104	563	37	878
Strickland, William W. (See Audirsch, Carl, assignor.)						
Strickle, George R. (See Strickle, Jacob W. and G. R.)						
Strickle, Jacob W. and G. R., Louisville, Ky. Car starter and brake	343,144	June 1	532	135 136	35	1103
Strickler, Benjamin F. (See Bayler and Strickler.)						
Strickler, Walter. (See Meyer and Strickler.)						
Stride, Hugh, Mahanoy City, Pa. Device for making miners' squib-holders	343,864	June 15	1576	400 401	35	1307
Strobel, Charles, Philadelphia, Pa. Loom for weaving terry fabrics	346,073	July 20	1817	469	36	339
Strobel, Charles L., Pittsburg, Pa. Apparatus for rolling eye-bars	338,623	Mar. 23	2357	620 621	34	1371
Strobel, Frederick, Marion, Ohio. Thrashing and separating machine	340,899	Apr. 27	2560	674	35	477
Strobel, Victor O., Allegheny, Pa. Hot-blast oven	340,163	Apr. 20	1518	384	35	284
Strobel, Victor O., Philadelphia, Pa. Valve for hot-blast ovens	350,568	Oct. 12	661	181	37	127
Strobel, Victor O., Philadelphia, Pa. Cleaning apparatus for hot-blast ovens	350,569	Oct. 12	662	181	37	127
Strock, John L., Franklin Grove, Ill. Grass-seed-sowing machine	338,204	Mar. 16	1784	466	34	1264
Strode, J. U., *et al.* (See Anderson, Clark, assignor.)						
Strohm, Samuel D. (See Crandell, William C., Jr., assignor.)						
Strom, Axel, Austin, Ill. Switch-stand	337,352	Mar. 2	629	165	34	1042
Strom, Axel A., Chicago, Ill. Frame for track-drills	337,455	Mar. 9	802	204	34	1077
Strom, Axel A., Chicago, Ill. Rail-bender	344,793	June 29	2848	738	35	1555
Strom, Axel A., Austin, Ill. Lifting-jack	344,794	June 29	2850	738	35	1556
Strom, Axel A., Austin, Ill. Clutch for lifting-jacks	347,379	Aug. 10	1105	296	36	676
Stromberg, Adolphus, Sudenburg, near Magdeburg, assignor to Sudenburger Maschinenfabrik und Eisengiesserei Aktiengesellschaft, Magdeburg, Prussia, Germany. Machine for slicing sugar-cane	341,959	May 18	1355	362	35	776
Stromeyer, Julius, Philadelphia, Pa. Skid	351,476	Oct. 26	1994	518	37	382
Strong, Edwin J., Laingsburg, Mich. Motor attachment for locomotives	339,596	Apr. 6	735	180	35	129
Strong, Eli, Kalamazoo, Mich. Feed-regulator for roller-mills	333,570	Jan. 5	95	27	34	21
Strong, George S., New York, N. Y. Valve-gear for steam-engines	355,035	Dec. 28	2004	528 529	37	1319
Strong, Harriet W. R., Oakland, Cal. Window-sash holder	352,719	Nov. 16	1384	374 375	37	732
Strong, James F., and J. H. J. Haines, Flushing, N. Y. Automatic safety gas-burner	343,382	June 8	740	184	35	1149
Strong, James T., assignor of one-fourth to M. S. Thurmond, Pittsburg, Kans. Harrow and pulverizer attachment	349,374	Sept. 21	1150	298	36	1274
Strong, John A., Cain, Kans. Box-fastener	344,875	July 6	114	28	36	21
Strong, John W., Bridgeport, Conn. Chuck	339,120	Mar. 30	3085	816	34	1505
Strong, Lena, and A. B. Smith, San Francisco, Cal. Fruit-picker	334,426	Jan. 19	1416	381	34	276
Strong, Walter E. (See Piper, Edwin S., assignor.)						
Strong, William, assignor of one-half to C. Aneshaensel, Jr., Indianapolis, Ind. Shower attachment for bath-tubs	341,183	May 4	295	84	35	559
Strong, William, assignor of one-half to C. Aneshaensel, Jr., Indianapolis, Ind. Flue-cleaner	342,764	May 25	2515	672	35	996
Strother, William S., assignor of one-half to R. J. Durham, Phillippi, W. Va. Planter	349,823	Sept. 28	1779	460	36	1401
Strothoff, Johann G., Jr., Bremen, Germany. Cigar-machine	333,976	Jan. 5	657	179	34	123
Stroud, Edward, New York, N. Y. Key-board for musical instruments	351,477	Oct. 26	1995	518	37	382
Strout, Horace C., Brooklyn, N. Y. Heating and ventilating system	346,623	Aug. 3	220	60 61	36	503
Struck, Henry F., Cincinnati, Ohio. Vault-light	336,171	Feb. 16	1553	409	34	730
Struppe, Edward. (See Ohlweiler, Jacob, assignor.)						
Struppe, Edward. (See Ohlweiler and Struppe.)						
Strunz, Frederick B., Pittsburg, Pa. Carburetor for Argand gas-burners	350,901	Oct. 12	1135	302	37	214
Strunz, Stephen, Pittsburg, Pa. Fluid-pressure regulator	336,874	Feb. 23	2542	669	34	915
Stuart, Alexander, Jr., Hamilton, Ontario, Canada. Washing-machine	354,948	Dec. 28	1891	498	37	1379
Stuart, C. D. (See Ward, Frank F., assignor.)						
Stuart, Charles J., Lowell, Mass. Instrument for transmitting vocal sounds	341,519	May 11	759	204	35	654
Stuart, John E., Newark, N. Y. Frame for door and window openings	350,570	Oct. 12	664	181	37	127
Stuart, Levi B., Seymour, assignor of one-half to H. C. Cook, Ansonia, Conn. Thill-coupling	340,926	Apr. 27	2593	684	35	484
Stubbe, John, assignor to H. B. Scutt & Co., (limited,) Pittsburg, Pa. Device for twisting and stretching fencing-strips	340,962	Apr. 27	2643	697	35	492
Stubbe, John, assignor of two-thirds to G. T. Oliver and C. Evans, Pittsburg, Pa. Gas-regulator	347,840	Aug. 24	1935	513	36	847
Stubbs, Charles, Spiceland, Ind. Manure-carrying machine	351,410	Oct. 26	1896	494	37	363
Stubbs, Jesse, Mount Pleasant, assignor of two-thirds to N. A. Gray and C. L. Mahrenhols, Red Oak, Iowa. Kiln for and method of burning clay	338,206	Mar. 16	1787	467	34	1264
Stubbs, Jesse, assignor of one-seventh to G. A. Stone, Henry County, Iowa. Gasoline or oil heating-stove	354,520	Dec. 14	1262	338	37	1243
Stuber, Jacob. (See Stuber, Johann and J.)						
Stuber, Johann and J., Syracuse, N. Y. Beer-cooling apparatus	340,963	Apr. 27	2645	697	35	493
Stuckert, J. Franklin, Philadelphia, Pa. Fire-proof roof, floor, &c	349,670	Sept. 21	1536	396	36	1351
Stude, Alexander. (See Runge and Stude.)						
Study, Leonard, McPaul, Iowa. Harvester-cutter	351,004	Oct. 19	1307	343	37	252
Stuempfle, Frederick, and H. S. Thomas, Elmira, N. Y. Fireman's ladder	347,746	Aug. 17	1795	478	36	212

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stuempges, John. (See Stevenson and Stuempges.)						
Stufft, Robert L., Scottdale, Pa. Watch-case spring	345,192	July 6	541	138	36	99
Stufft, Robert L., Scottdale, Pa. Combined dust-ring and case-spring for watches	354,666	Dec. 21	1496	396	37	1292
Stull, Jacob H., Fremont, Ohio. Paper file or holder	341,960	May 18	1356	362	35	777
Stuntz, Chauncey R., Terrace Park, Ohio. Ruling slates	348,599	Sept. 7	94	.....	36	1064
Stupakoff, Simon H., Hartford, Conn. Carbon-holder for arc lamps	340,065	Apr. 13	1379	347	35	252
Stupakoff, Simon H., Hartford, Conn. Copying-press	353,606	Nov. 30	2646	707	37	986
Sturges, Ernest F., Mechanicsville, Iowa. Harness-saddle	341,961	May 18	1357	363	35	777
Sturges, Thomas T., New York, N. Y. Game-table	344,062	June 22	1850	475	35	1365
Sturgis, Charles M., assignor to himself, T. M. De Earheart, and A. O. Lane, Birmingham, Ala. Car-brake	339,597	Apr. 6	735	180	35	129
Sturgis, Francis M. (See Westcharper, Edward, assignor.)						
Sturla, Jacob J., Memphis, Tenn. Lemon-squeezer	336,672	Feb. 23	2278	595	34	865
Sturm Emil G., Leipsic, Saxony, Germany. Mechanical musical instrument	353,434	Nov. 30	2393	639	37	939
Sturtevant, Charles A., Cleveland, Ohio. Tobacco-cutting machine	334,820	Jan. 26	1861	406	34	367
Sturtevant, Thomas L., Framingham, Mass. Attrition-mill	346,513	Aug. 3	82	22	36	476
Stutsman, Henry, East Portland, and D. Cole, Portland, Oreg. Steam-generator	351,945	Nov. 2	315	87	37	516
Stuyvesant, Robert, New York, N. Y. Cuff holder and adjuster	337,534	Mar. 9	903	230	34	1094
Subers, Lawrence A., assignor of one-half to T. N. Subers, Philadelphia, Pa. Leaf-retaining clasp	340,638	Apr. 27	2206	580 / 581	35	415
Subers, Thomas N. (See Subers, Lawrence A., assignor.)						
Suchland, Theodor, Berlin, Germany. Car-brake	347,841	Aug. 24	1937	514	36	848
Sudelsburger, Maschinenfabrik und Eisengiesserei Aktiengesellschaft. (See Stromberg, Adolphus, assignor.)						
Suess, Charles, Brunswick, Mo. Mop-holder	354,949	Dec. 28	1892	499	37	1379
Sueur, Alfred, assignor to M. J. Paillard & Co., New York, N. Y. Zither attachment for music-boxes	342,979	June 1	284	74	35	1058
Sueur, Alfred, assignor to M. J. Paillard & Co., New York, N. Y. Automatic check for music-boxes	343,778	June 15	1471	369	35	1287
Suffern, James B., Suffern, N. Y. Railway-switch	338,649	Mar. 23	2392	630	34	1377
Sugg & Beiersdorf Company. (See Sugg, Beiersdorf, and Runte, assignors.)						
Sugg, George, Chicago, Ill. Dressing-case or bureau	333,977	Jan. 5	658	180	34	123
Sugg, George, J. Beiersdorf, and C. Runte, assignors to Sugg & Beiersdorf Company, Chicago, Ill. Folding bed	344,291	June 22	2173	557	35	1423
Suhr, William M., New York, N. Y. Boiler-covering composition	339,820	Apr. 13	1047	259	35	192
Suhr, William M., New York, N. Y. Boiler or tube covering	340,740	Apr. 27	2353	619	35	439
Sullings, Joseph W., *et al.* (See Richardson, John D., assignor.)						
Sullivan, Charles A., assignor of one-half to E. H. Potter, Windsor Ontario, Canada. Lace-fastening for shoes	354,874	Dec. 21	1780	469	37	1347
Sullivan, Cornelius F., assignor to F. W. Lowe, Boston, Mass. Locking device for skates	344,330	June 22	2219	571	35	1431
Sullivan, Hugh J., Milwaukee, Wis. Skylight-frame	334,487	Jan. 19	1417	381	34	276
Sullivan, James, Newton Upper Falls, Mass. Manufacturing flanged castings	334,821	Jan. 26	1863	496	34	367
Sullivan Machine Company. (See Ball, Albert, assignor.)						
Sullivan, Michael, *et al.* (See Sweet, Wilcome F., assignor.)						
Sullivan Saddle Tree Company, J. S. (See Hays, James M., assignor.)						
Sullivan, Theodore J., and H. A. Eagle, Pern, Ind. Buggy-top	345,332	July 13	738	187	36	139
Sullivan, Timothy J., Bowling Green, Ky. Treating smoke economically	335,653	Feb. 9	794	211	34	590
Sullivant, Harry, Archie, Ill. Tile-ditching machine	338,678	Mar. 23	2436	642	34	1385
Sully, Robert M., Petersburg, Va. Seal-lock	341,779	May 11	1114	295	35	724
Sully, Robert M., Petersburg, Va. Seal-lock	341,780	May 11	1116	296	35	724
Sulzer, Henry H. (See Vetter, Caspar, assignor.)						
Sultzer, Joseph B., New York, N. Y. Mustache-curler	346,831	Aug. 3	469	128	36	552
Sulzman, Charles A., Waterford, N. Y. Lifting-jack	341,962	May 18	1358	363	35	777
Summa, Henry H., St. Louis, Mo. Collar or cuff button	354,521	Dec. 14	1263	334	37	1243
Summers, Andrew J., Archie, Mo. Compounding or mixing machine	346,514	Aug. 3	84	22 23	36	476
Summers, Clifton R. and M. E., Stanberry, Mo. Fence-wire stretcher	348,248	Aug. 31	2533	680	36	962
Summers, Marshall E. (See Summers, Clifton R. and M. E.)						
Summers, Rufus A., Mount Vernon, Ill. Trash-drill	346,234	July 27	2041	526	36	392
Summit, Christian A., assignor of one-half to R. E. Chambers, Spencer, Ind. Weather-boarding gage	345,261	July 6	637	162	36	116
Sun Electric Light Company. (See Slattery, Marmaduke M. M., assignor.)						
Sundström, Karl J., Rustic, N. J., assignor of three-fourths to A. De Castro, New York, N. Y. Pan for concentrating sulphuric acid	349,414	Sept. 21	1202	311	36	1284
Superior Drill Company. (See McChristian, Edward, assignor.)						
Suplee, Benjamin R., and G. M. Main, Philadelphia, Pa. Whip	353,607	Nov. 30	2647	707	37	986
Supple, Mathias. (See Walther and Supple.)						
Surerus, Jacob, Newark, N. J. Machine for finishing hats	333,694	Jan. 5	273	74	34	52
Surratt, George, and H. Heyman, Gainesville, Tex. Apparatus for forcing beer from kegs	349,012	Sept. 14	655	169	36	1171
Susemihl, Charles G., deceased, Detroit, Mich.; F. G. Susemihl, administrator. Car-axle box	348,933	Sept. 7	538	142	36	1146
Susemihl, Francis G., administrator. (See Susemihl, Charles G.)						
Sutcliffe, Thomas, and J. Marshall, Pawtucket, R. I. Loom-shuttle	350,953	Oct. 19	1198	319	37	233
Sutcliffe, William W., New Orleans, La. Bagasse-furnace	334,204	Jan. 12	1011	269 / 270	34	196
Suter, John R., Conway, Ark. Cultivator	351,720	Oct. 26	2339	609	37	448
Sutherland, Daniel A., Lynn, Mass. Proportional measuring attachment for faucets	336,172	Feb. 16	1554	410	34	730
Sutherland, Daniel A., Lynn, Mass. Proportional water-meter	351,721	Oct. 26	2340	609	37	448
Sutherland, James, Poughkeepsie, N. Y. Adjustable decorated ceiling, &c	349,375	Sept. 21	1151	298	36	1274
Sutherland, Mary, Diamond, Mo. Composition for tanning	350,706	Oct. 12	855	.....	37	163
Sutliff, John H., Albany, N. Y. Coupon-order record-board	353,008	Nov. 23	1776	478	37	814
Sutro, Gustav, San Francisco, Cal. Motor	354,667	Dec. 21	1496	397	37	1292
Sutton, Benjamin F., *et al.* (See Parker, Russell, assignor.)						
Sutton, Benjamin F. (See Perkins and Sutton.)						
Sutton, Benjamin F., assignor to himself, R. Parker, and J. H. Stearns, Brooklyn, N. Y. Syringe-tube	339,821	Apr. 13	1047	260	35	192
Sutton, Benjamin F., Brooklyn, assignor to Parker, Stearns & Sutton, New York, N. Y. Syringe-tube coupling	354,875	Dec. 21	1780	469	37	1347
Sutton, Charles, San Francisco, Cal. Stamp or die for cement pavements	342,980	June 1	285	74	35	1058
Sutton, Emmett R. (See Smith, Obediah, assignor.)						
Sutton, George L., assignor of one-half to J. R. Standley, Platteville, Iowa. Fencing-machine	351,078	Oct. 19	1402	368	37	268
Sutton, James M., Bryan, Tex. Cultivator	352,958	Nov. 23	1702	457	37	800
Sutton, Jessey T., and G. M. Terry, Sharon, Tenn. Harness-buckle	352,959	Nov. 23	1704	457	37	800

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Sutton, Margrett A., Arlington, Md. Plant-protector	355,282	Dec. 28	2366	622	37	1471
Sutton, William, St. Louis, Mo. Car-axle box	334,205	Jan. 12	1013	270	34	196
Sutton, William, St. Louis, Mo. Hanger for car-doors	346,074	July 20	1819	470	36	339
Suydam, John, assignor of one-half to B. F. Porter, Springfield, Ohio. Fence	342,765	May 25	2516	672	35	997
Svensson, Claes A., assignor of one-half to W. W. Oliver, Buffalo, N. Y. Draw-bench	342,474	May 25	2097	554	35	919
Swabel, William, San Francisco, Cal. Stop-cock	343,283	June 8	742	184	35	1149
Swager, John H., and J. F. Ferchen, Astoria, Oreg. Water-heater	352,896	Nov. 16	1613	434	37	776
Swaim, Mary E., Danville, Ill. Album	344,331	June 22	2220	571	35	1431
Swain, Fred. F., Chicago, Ill. Journal-bearing	341,392	May 4	592	163	35	612
Swain, Hadwen, Denver, Colo. Hand rock-drill	337,887	Mar. 16	1347	349 / 350	34	1181
Swain, Josiah G., Martinsville, Ind. Horse-tail holder	353,608	Nov. 30	2647	707	37	986
Swallow, Isaac W., Kingston, Pa. Grate-bar, &c	342,766	May 25	2518	672	35	997
Swallow, Isaac W., Kingston, Pa., assignor to American Water Bar Grate Company. Grate-bar for locomotives, &c. (Reissue)	10,700	Mar. 16	1835	482	34	1274
Swan, Alfred, Lowfell, Gateshead-on-Tyne, England. Manufacture of articles made of moldable vitreous substance with metal parts embedded therein	339,822	Apr. 13	1048	260	35	192
Swan, Frederic A., Everett, Mass. Electric-current indicator	342,475	May 25	2098	554	35	919
Swan, Henry F., North Jesmond, Newcastle-upon-Tyne, county of Northumberland, England. Construction of navigable vessels for carrying liquids in bulk	339,344	Apr. 6	331	83	35	62
Swan, Henry H., Marissa, assignor of three-fourths to L. Myers and J. Rosenthal, Chicago, Ill. Railway signal-light	345,653	July 13	1233	319	36	228
Swan, James, Seymour, Conn. Bit-holder	337,888	Mar. 16	1349	350	34	1181
Swan, James, Seymour, Conn. Boring-machine	341,520	May 11	760	204 / 205	35	654
Swan, James, Seymour, Conn. Boring-machine	354,073	Dec. 7	610	167 / 168	37	1118
Swan, James S., Mongaup Valley, N. Y. Mechanical movement	354,074	Dec. 7	612	168	37	1118
Swan, John, *et al.* (See Ethridge, Martin V. B., assignor.)						
Swan, Joseph R., *et al.* (See Eichmeyer, Joseph C., assignor.)						
Swan, Samuel B., Tippecanoe, Ohio. Buggy-gear	349,125	Sept. 14	813	206	36	1199
Swan, T. Bryant, assignor of one-half to E. V. Burke, Atlantic, Iowa. Harrow	344,876	July 6	115	28	36	21
Swanger, David, assignor of two-thirds to W. Betz and A. Hammerly, Canton, Ohio. Fodder-cutter	352,960	Nov. 23	1704	458	37	800
Swank, Jackson S., Sheep Ranch, and W. Dages, Big Trees, Cal. Insertible oscillating saw-tooth	334,303	Jan. 12	1158	309	34	223
Swann, John, *et al.* (See Ethridge, Martin V. B., assignor.)						
Swanson, John A., and A. W. Linton, Fargo, Dak. Ter. Machine for making brick from dry material	348,702	Sept. 7	235	62	36	1090
Swanton, George R. B., Okawa, New Zealand. Snap-hook	343,406	June 8	947	236	35	1186
Swanton, George R. B., Okawa, Hawk's Bay, New Zealand. Whiffletree-hook	345,456	July 13	918	231	36	170
Swartwout, Emma J., New York, N. Y. Corset	353,237	Nov. 23	2105	564	37	878
Swartwout, Ezra. Mechanicsville, N. Y. Swinging plant-stand	342,476	May 25	2100	554	35	919
Swartz, Daniel H., London Mills, Ill. Bridge	346,873	Aug. 3	532	144	36	563
Swartz, Eli, Pittsburg, Pa. Air-compressor	342,310	May 18	1846	488	35	866
Swartz, Hiram B., Wooster, Ohio. Extension step-ladder	349,286	Sept. 14	1018	260	36	1240
Swartz, Samuel, Buffalo, N. Y. Wood bending and drying machine	351,815	Nov. 2	120	33	37	480
Swartz, Samuel P., Allentown, Pa. Soldering-iron	347,307	Aug. 10	1156	309	36	686
Swartzwelder, Harrison, *et al.* (See Allfree, James B., assignor.)						
Swartzwelder, Horace B., Lancaster, Pa. Cupboard-catch	349,671	Sept. 21	1537	396	36	1351
Swayze, Stephen J., Sag Harbor, N. Y. Button	348,934	Sept. 7	540	142	36	1146
Swearingen, Isaac S. (See Mitchell, John A., assignor.)						
Sweat, Elias S., Fayetteville, Ga. Fertilizer-distributer	349,672	Sept. 21	1538	397	36	1351
Sweeney, Dennis F. (See Partridge, Andrew, assignor.) (Reissue.)						
Sweeney, Samuel B., Roachdale, and J. M. Ghormley, Waveland, Ind. Endless reaping-sickle	334,304	Jan. 12	1159	310	34	223
Sweeney, Thomas P., Sacramento, Cal. Air-compressor and attachment for locomotives	352,102	Nov. 2	542	144	37	560
Sweeney, Thomas W., Reading, Pa. Cabinet for jewelers	337,798	Mar. 9	1222	318	34	1151
Sweeny, Enoch W., and J. Womer, Boalsburg, Pa. Vehicle-thill sup ort	341,820	May 11	1170	313	35	735
Sweeny, John, Salisbury, Conn. Device for cutting, carving, and fluting bone, horn, &c	354,876	Dec. 21	1781	470	37	1347
Sweeny, Robert G. (See Waters and Sweeny.)						
Sweeny, Robert G., Terre Haute, Ind. Electrical switch	346,515	Aug. 3	85	23	36	476
Sweet, Benjamin F., Fond du Lac, Wis. Coupling-joint	334,305	Jan. 12	1160	310	34	223
Sweet, Benjamin W., Rodney, Mich. Car-coupling	345,262	July 6	638	162	36	116
Sweet, Benjamin W., Rodney, Mich. Car-coupling	349,824	Sept. 28	1720	460	36	1402
Sweet, D. Fred, assignor to Electric Time Company, Grand Rapids, Mich. Self-winding electric clock	337,797	Mar. 9	1221	318	34	1151
Sweet, John M., Batavia, N. Y. Wheel-hub	341,861	May 11	1224	327	35	744
Sweet, John M., Batavia, N. Y. Wheel-hub	345,006	July 6	304	76	36	55
Sweet, Miles, Troy, N. Y. Curry-comb	346,444	July 27	2344	603	36	447
Sweet, Miles, Troy, N. Y. Curry-comb	346,445	July 27	2345	603	36	447
Sweet & Son, J. B. (See Zanger, Theodor, assignor.)						
Sweet, Stephen, Jr., *et al.* (See Sweet, Welcome F., assignor.)						
Sweet, Welcome F., Grand Rapids, Mich., assignor to himself, M. Sullivan, J. Sage, and S. Sweet, Jr., Chicago, Ill. Electro-magnetic device for winding clocks	334,822	Jan. 26	1864	496 / 497	34	367
Sweetland, William L., New Haven, Conn. Lathe-chuck	347,395	Aug. 17	1285	342	36	718
Sweetland, William W., Edwardsburg, Mich. Farm-gate	333,695	Jan. 5	274	74	34	52
Sweetser, George A., London, England. Apparatus for the manufacture of matches	342,398	May 25	1988	525 / 526	35	899
Sweetser, Jewett B., Danvers, Mass. Stocking-supporter	335,784	Feb. 9	990	262	34	625
Sweetser, William A. (See Brooks and Sweetser.)						
Sween, Lawrence W., West Liberty, Iowa. Adding-machine	343,506	June 8	1082	271	35	1210
Sweney, Charles E., Pierceton, Ind. Check-rower corn-planter	340,066	Apr. 13	1380	347	35	252
Sweney, Charles E., assignor of two-thirds to C. R. Long, Pierceton, and T. J. Heagy, Kosciusko County, Ind. Corn-planter	339,233	Apr. 6	166	43, 44	35	32
Swengel, Samuel and W. E., Oakland, Nebr. Trace-carrier	338,679	Mar. 23	2438	642	34	1385
Swengel, Willard E. (See Swengel, Samuel and W. E.)						
Swenson, Magnus, Fort Scott, Kans. Filter-press	353,514	Nov. 30	2511	669 / 670	37	960
Swenson, Magnus, Fort Scott, Kans. Concentrating-pan	353,515	Nov. 30	2512	670	37	961
Swett, Josiah, Granville, and G. W. Brace, Southwick, Mass. Lamp and lantern attachment	349,765	Sept. 28	1695	437	36	1385
Swift, Charles N., New York, N. Y. Cabinet for tobacco, cigars, &c	335,097	Jan. 26	2235	593	34	434

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Swift, Joseph H., Brooklyn, N. Y. Box-nailing machine	344,419	June 29	2349	604, 605, 606	35	1463
Swift, Lemuel, *et al.* (See Harden, George T., assignor.)						
Swift, Peleg, *et al.* (See Harden, George T., assignor.)						
Swift, R. K. (See Phelps and Swift.)						
Swift, William H., Revere, Mass. Portable heating apparatus for warming feet	346,075	July 20	1819	470	36	340
Swindell, William, Allegheny City, Pa. Gas-furnace	334,306	Jan. 12	1161	310, 311	34	223
Swindell, William, Allegheny City, Pa. Gas-furnace	343,865	June 15	1576	401	35	1307
Swinehart, George W., *et al.* (See Ammon, James W., assignor.)						
Swinehart, George W., assignor to G. W. Farrow, East Lynne, Mass. Ring-holder for harness	337,031	Mar. 2	204	54	34	963
Swingle, Alfred, San Francisco, Cal. Separator or cleaner	350,171	Oct. 5	106	30	37	22
Swinscoe, Charles. (See Scarles, Benjamin, assignor.)						
Switzer, John J., Chelsea, assignor, by mesne assignments, to himself, W. Tuxbury, Boston, and A. F. Cowles, Amherst, Mass. Warp stop-motion for looms	348,174	Aug. 24	2417	648	36	935
Swope, Horace G., assignor to Rude Brothers Manufacturing Company, Liberty, Ind. Corn-drill	352,586	Nov. 16	1195	423	37	696
Sydenham, Arthur, Nebraska City, Nebr. Umbrella and parasol	341,862	May 11	1225	328	35	744
Syester, William, Ashersville, Ind. Bee-hive	348,935	Sept. 7	541	143	36	1146
Sykes, Edmund T., Minneapolis, Minn. Boiler	333,571	Jan. 5	96	27	34	21
Sykes, Thomas. (See Lowcock and Sykes.)						
Sylbwasschy, Otto, Ellerbeck, Prussia, Germany. Preserving fish	352,666	Nov. 16	1314	.....	37	718
Sylvén, Walfrid T., Brooklyn, N. Y. Propeller	351,135	Oct. 19	1481	388	37	284
Sylvester, Charles W. (See Sylvester, Henry E. and C. W.)						
Sylvester, Charles W. and H. E., Marengo, Ill. Windmill	353,516	Nov. 30	2514	670, 671	37	961
Sylvester, George. (See Michelson, Sigismund M., assignor.)						
Sylvester, George P. (See Ward and Sylvester.)						
Sylvester, Henry E. (See Sylvester, Charles W. and H. E.)						
Sylvester, Henry E. and C. W., Marengo, Ill. Millstone-dress	336,533	Feb. 16	2068	543	34	822
Sylvester, John B., Blue Hill Falls, Me. Saw-setting device	352,207	Nov. 9	715	191	37	597
Sylvester, William W., Chattanooga, Tenn. Mail-bag fastening	349,067	Sept. 14	729	186	36	1184
Sym, Hugh, Montreal, Quebec, Canada. Apparatus for removing and replacing the wheels and axles of railway-cars	352,587	Nov. 16	1197	324	37	697
Symes, Albert F., deceased, (S. R. Hammer, administrator,) Salem, and J. Buchtel, Portland, Oreg. Hose-coupling	343,089	June 1	447	114	35	1088
Symonds, Clarence M., San Francisco, Cal. Machine for jointing and seeming tin-can bodies	338,887	Mar. 30	2752	723, 724, 725	34	1447
Synchronous Time Company. (See Hedge, John F., Jr., assignor.)						
Synchronous Time Company of Portland, Me. (See Eastman, Sylvester, assignor.)						
Synchronous Time Company of Portland, Me. (See Millard and Clarke, assignors.)						
Sypher, Abraham J., Iron Mountain, Mo. Steam rock-drill	348,175	Aug. 24	2419	648	36	936
Syracuse Fibre Ware Company. (See Leonard and Stevens, assignors.)						
Taber, Benjamin F., Buffalo, N. Y. Rotary pump	344,063	June 22	1851	475	35	1365
Taber, David F., Atlanta, assignor to himself and F. W. Memmler, Marietta, Ga. Umbrella drip-cup	348,600	Sept. 7	95	27	36	1064
Taber, Freeman A., Newton, assignor to Star Brass Manufacturing Company, Boston, Mass. Lamp-holder for car and other lamps	349,186	Sept. 14	891	229	36	1215
Taber, Lacell C. (See Taber, Niles C. and L. C.)						
Taber, Loyal C., Danforth, assignor to Wood, Taber & Morse, Eaton, N. Y. Traction-engine	334,623	Jan. 19	160.	426, 427	34	310
Taber, Loyal C., Danforth, assignor to Wood, Taber & Morse, Eaton, N. Y. Traction-engine	341,702	May 11	1023	270, 271	35	706
Taber, Morris E., Buffalo, N. Y. Boot	354,360	Dec. 14	1046	280	37	1205
Taber, Niles C. and L. C., Marilla, N. Y. Potato-digger	338,207	Mar. 16	1789	467	34	1264
Taber, William D., Rockville, R. I. Rein-holder	351,221	Oct. 19	1596	419	37	305
Tabony, Joseph H., assignor of one-half to A. Violett, New Orleans, La. Telephone time-register	349,539	Sept. 21	1376	357	36	1318
Tabor, Harris, assignor to Tabor Manufacturing Company, New York, N. Y. Metal-founding machine	347,447	Aug. 17	1365	363	36	731
Tabor, Harris, assignor to Tabor Manufacturing Company, New York, N. Y. Molder's flask	347,448	Aug. 17	1366	363	36	732
Tabor Manufacturing Company. (See Tabor, Harris, assignor.)						
Tacy, Samuel H., New York, N. Y., assignor of one-half to J. Boyce, Baltimore, Md. Dynamo electric machine	343,930	June 15	1655	425	35	1324
Tacy, Samuel H., New York, N. Y., assignor of one-half to J. Boyce, Baltimore, Md. Mining-machine	346,328	July 27	2177	559	36	417
Taft, Daniel F., assignor of one-half to J. B. Hadley, New Bedford, Mass. Sight-feeding lubricator	338,650	Mar. 23	2393	631	34	1378
Taft, George W., Abington, Conn. Machine for making, repairing, and cleaning roads	333,572	Jan. 5	97	28	34	21
Taft, George W., Abington, Conn. Machine for making, repairing, and clearing roads	341,609	May 11	883	235, 236, 237	35	677
Taft, George W., Pomfret, Conn. Machine for making, repairing, and cleaning roads	344,690	June 29	2706	703, 704	35	1529
Taft, Gustavus E., assignor to Whitin Machine Works, Whitinsville, Mass. Ring-spinning machine	333,898	Jan. 5	541	147	34	101
Taft, Jerome C., assignor to J. M., E. C., and R. G. Hawes, Providence, R. I. Expansible vessel for steam-traps	353,176	Nov. 23	2022	542	37	862
Taft, Ryland L., assignor to Illinois Watch Company, Springfield, Ill. Device for letting down the mainsprings of watches	340,386	Apr. 20	1851	475	35	345
Taft, Ryland L., assignor to Illinois Watch Company, Springfield, Ill. Stem winding and setting mechanism for watches	345,193	July 6	542	138	36	99
Taft, Stephen, Worcester County, Mass. Cutting-nippers	351,478	Oct. 26	1997	519	37	383
Tagg, George J., East Moulsey, county of Surrey, England. Air and water tight butt seam or joint	339,710	Apr. 13	905	222	35	165
Taggart, James, Bowling Green, Ind. Wire fence	339,823	Apr. 13	1049	260	35	192
Tainter, Jeremiah B., Menomonee, Wis. Coffer-dam, mill-dam, and similar works	344,877	July 6	116	29	36	21
Tainter, Jeremiah B., Menomonee, Wis. Sluiceway-gate	344,878	July 6	119	29, 30	36	21
Tainter, Jeremiah B., Menomonee, Wis. Canal-lock	344,879	July 6	122	30	36	22
Tainter, Sumner. (See Bell and Tainter.)						
Tainter, Sumner, Washington, D. C. Telephone-transmitter	336,173	Feb. 16	1556	410	34	730

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Tainter, Sumner, Washington, D. C. Recording and reproducing sounds	341,287	May 4	442	122	35	586
Tainter, Sumner, Washington, D. C. Apparatus for recording and reproducing sounds	341,288	May 4	445	123, 124	35	586
Tainter, William H. H. (See Millard, Martin S., assignor.)						
Tait, James F., Evanston, Ill. Draft-equalizer	355,036	Dec. 28	2009	529	37	1400
Talbot, Thomas W. (See Lang and Talbot.)						
Talbot, Thomas W., and J. L. Farmer, Florence, S. C. Car-coupling	346,329	July 27	2178	559	36	417
Talcott, Charles R., Valparaiso, Ind. Perpetual dial-calendar	342,981	June 1	286	74	35	1058
Talcott, Elizabeth. (See Talcott, Richard H. L. and E.)						
Talcott, Richard H. L. and E., Boston, Mass. Mount for pictures and photographs	338,651	Mar. 23	2395	631	34	1377
Talcott, William A., *et al.* (See Nelson, J. and A., assignors.)						
Taliaferro, Eilbeck H., assignor of part to J. B. Jackson, T. A. Warren, W. C. Abernathy, W. H. Blanton, and M. B. Hallman, Atlanta, Ga. Nursing-chair	355,230	Dec. 28	2297	605	37	1457
Taliaferro, John C., Richmond, Va. Machine for cutting and pointing rods of metal	352,961	Nov. 23	1706	458	37	801
Tallcot, William E., Croton Landing, N. Y. Brick-machine	347,136	Aug. 10	914	243, 244	36	641
Talley, James H. R., Sheldon, assignor of one-half to C. P. Barnes, Lamar, Mo. Dumping-car	352,498	Nov. 9	1080	291	37	668
Tallman, John C., assignor to Warner Bros., Bridgeport, Conn. Nursing-corset	353,093	Nov. 23	1905	512	37	839
Tallon, Thomas A. (See Phalan, Daniel G., assignor.)						
Talmage, Charles H., *et al.* (See Remillon, Eugene J., assignor.)						
Talson, James L., Petersburg, Ind. Swinging gate	352,016	Nov. 2	417	113	37	535
Talty, John E. (See Ennis, Henry J., assignor.)						
Tambling, Lucius S., San Francisco, Cal. Rein-holder	350,400	Oct. 5	391	112	37	78
Tandy, George G. (See Linley and Biggs, assignors.)						
Tankersly, Fountain, Richmond, Ky. Sash-supporter	346,516	Aug. 3	86	23	36	477
Tanner, George W., Providence, R. I. Cigar-machine	340,741	Apr. 27	2353	619, 620	35	440
Tanner, John A., Louisville, Ky. Barrel, tub, &c.	353,386	Nov. 30	2318	620	37	924
Tanner, Norman A., New Haven, Conn. Auxiliary mouth-piece for telephones	342,477	May 25	2101	555	35	919
Tanner, William J., Acworth, Ga. Cultivator	351,136	Oct. 19	1482	388	37	284
Tansley, George H., Springfield, Mass. Can-opener	341,963	May 18	1359	363	35	777
Tapley Machine Company. (See Addy, Charles L., assignor.)						
Taplin, Alvin, Forrestville, assignor to Bristol Brass and Clock Company, Bristol, Conn. Friction-pulley for lamps	335,654	Feb. 9	795	211	34	590
Taplin, Alvin, Forestville, assignor to Bristol Brass and Clock Company, Bristol, Conn. Manufacture of bent metal tubes	351,479	Oct. 26	1998	519	37	383
Taplin, Rice & Co. (See Wellhouse, George, assignor.)						
Tappey & Steel. (See Tappey, William H., assignor.)						
Tappey, William H., assignor to Tappey & Steel, Petersburg, Va. Cotton and hay press	340,164	Apr. 20	1522	385	35	284
Tarbox, Eugene L., Brooklyn, assignor to New York Stencil Works, New York, N. Y. Mold for casting type-wheels	354,586	Dec. 21	1362	361	37	1268
Tarbox, James E., and E. H. Taylor, Lynn, Mass., assignors to Tarbox Time Register Company, Portland, Me. Watchman's time-recorder	338,315	Mar. 23	1936	510, 511	34	1298
Tarbox Time Register Company. (See Pennell, Lloyd W., assignor.)						
Tarbox Time Register Company. (See Tarbox and Taylor, assignors.)						
Tarbutt, Percy, London, county of Middlesex, England. Apparatus for the combustion of liquid hydrocarbons	350,783	Oct. 12	955	257	37	181
Tardy, Edouard, Douvres, Calvados, assignor to Schneider et Compagnie, Le Creuzot, Saône-et-Loire, France. Attaching armor-plates to vessels	344,218	June 22	2070	530	35	1405
Tarkington, Matthew S., Greensburg, Ind. Whip-socket	352,667	Nov. 16	1315	354	37	718
Tarney, Simeon U., Auburn, Ind. Harness-buckle	339,234	Apr. 6	171	44	35	33
Tasker, Stephen P. M. (See Feldmann, Hermann B., assignor.)						
Tasker, Stephen P. M., Philadelphia, Pa. Machine for rolling tubes	334,548	Jan. 19	1498	401	34	290
Tasker, Stephen P. M., Philadelphia, Pa., assignor of one-half to O. G. Holt, Louisville, Ky. Sand-molding machine	353,832	Dec. 7	252	67	37	1052
Tate, George C., Jr., Malden, Mass. Wire picture-cord	352,499	Nov. 9	1082	291	37	669
Tate, George J. F., London, England. Canister	355,554	July 13	1081	276	36	200
Tate, William J., Philadelphia, Pa. Ice-cream freezer	337,634	Mar. 9	1022	262	34	1117
Tatham, Henry B. (See Brooks, David, Jr., assignor.)						
Tatham, Henry B., Jr., Philadelphia, Pa. Automatic regulating mechanism for heating and ventilating apparatus	333,790	Jan. 5	402	108, 109	34	76
Tatham, Henry B., Jr., Philadelphia, Pa. Automatic regulating mechanism for heating and ventilating apparatus	333,791	Jan. 5	404	110	34	76
Tatham, Henry B., Jr., Philadelphia, Pa. Heat-regulating device	333,899	Jan. 5	542	147	34	101
Tatro, Joseph A., Beaver Falls, Pa. Annealing metals	353,094	Nov. 23	1906	512	37	839
Tatro, William B., Hartford, Conn., assignor to Pierce Manufacturing Company, New York, N. Y. Friction-clutch	337,032	Mar. 2	204	54	34	962
Tatum & Bowen. (See Roe, Alpheus E., assignor.)						
Tatum, Charles A., assignor to Whitall, Tatum & Co., New York, N. Y. Valve for syringes	334,059	Jan. 12	780	214	34	153
Tatum, Charles A., assignor to Whitall, Tatum & Co., New York, N. Y. Syringe-valve	342,478	May 25	2102	555	35	920
Tatum, Charles A., assignor to Whitall, Tatum & Co., New York, N. Y. Thermometer-case	343,678	June 15	1323	330	35	1260
Tatum, Charles A., assignor to Whitall, Tatum & Co., New York, N. Y. Reservoir for fountain-syringes	344,016	June 22	1781	459	35	1352
Tatum, Charles A., assignor to Whitall, Tatum & Co., New York, N. Y. Clamp for flexible tubes	350,850	Oct. 12	1065	285	37	201
Tatum & Co., S. C. (See Tatum and Hatfield, assignors.)						
Tatum & Co., Samuel C. (See Bennett, John M., assignor.)						
Tatum, Samuel C., Jr. (See Fletcher and Tatum.)						
Tatum, Samuel C., Jr., and J. Hatfield, assignors to S. C. Tatum & Co., Cincinnati, Ohio. Broom-rack	333,900	Jan. 5	544	148	34	102
Taubeneck, Arvor A., Marshall, Ill. Animal-trap	348,703	Sept. 7	237	63	36	1090
Taussig, Hubert P. (See Wuerpel and Taussig.)						
Taussig, Hubert P., St. Louis, Mo. Railway-switch	333,901	Jan. 5	545	148	34	102
Taussig, William. (See Faas, Rudolph, assignor.)						
Tavernier, Edouard, Paris, France. Extracting tannin from wood	351,540	Oct. 26	2083	540	37	401
Taxis, Gideon R., Morris, Ill. Picture-frame hanger	340,165	Apr. 20	1524	385	35	285
Taxis, Gideon R., Morris, Ill. Transom-lifter	343,931	June 15	1656	425	35	1324
Tay, Hans, Arcola, Ill. Punching-machine	334,139	Jan. 12	894	245	34	174
Taylor, Amos B., *et al.* (See Tirrell, Jacob P., assignor.)						
Taylor, Amos B., Wollaston, Mass. Saddle for top-rolls of spinning-machines	352,634	Nov. 16	1266	341	37	709
Taylor, Amos B., Wollaston, and J. P. Tirrell, Chelsea, assignors to said Taylor and G. F. Pinkham, Wollaston, Mass. Loom-shuttle	336,599	Feb. 23	2162	565	34	844

Alphabetical list of patentees- Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Taylor, Amos B., Wollaston, and J. P. Tirrell, Chelsea, Mass., assignors to said Taylor. Loom-shuttle	349,013	Sept. 14	657	169	36	1171
Taylor Brothers, *et al.* (See Goff, Daniel, assignor.)						
Taylor, Charles. (See McCrory, William, assignor.)						
Taylor, Charles A., *et al.* (See Baird, George D., assignor.)						
Taylor, Charles A., Brockton, Mass. Buttoner	349,415	Sept. 21	1203	311	36	1284
Taylor, Charles W., Portsmouth, N. H. Stove-pipe shelf	349,239	Sept. 14	966	246	36	1229
Taylor, Clarence W., Janesville, Wis. Fountain-pen	340,166	Apr. 20	1525	385	35	285
Taylor, Clarence W., Janesville, Wis. Fountain-pen	346,330	July 27	2179	559	36	417
Taylor, Edmund B., Medford, Mass. Cuff-holder	344,219	June 22	2072	530	35	1405
Taylor, Edward E., assignor of one-half to J. S. Hazard, Newport, R. I. Combined barrel clamp and hook	336,357	Feb. 16	1834	481	34	780
Taylor, Edward H., *et al.* (See Miller, Richard W., assignor.)						
Taylor, Edward R., Trenton, N. J. Picture-hanger	341,964	May 18	1360	363	35	777
Taylor, Edward W. (See Van Stone and Taylor.)						
Taylor, Elbert C., Stockton, Mo. Target	335,655	Feb. 9	795	212	34	590
Taylor, Elbert C., Stockton, Mo. Target	347,747	Aug. 17	1797	479	36	812
Taylor, Eugene H. (See Tarbox and Taylor.)						
Taylor, Eugene H., assignor to I. J. Saunders, Lynn, Mass. Machine for attaching buttons	344,220	June 22	2073	531	35	1405
Taylor, Fenner B., Washington, D. C. Gas-engine pump	347,137	Aug. 10	916	244	36	642
Taylor, Fitch, assignor to himself, T. R. Brown, and R. P. Owen, Philadelphia, Pa. Bracket for sinks	333,991	Dec. 7	497	134	37	1097
Taylor, Francis H., St. Joseph, Mich. Drag-saw	342,234	May 18	1723	458	35	844
Taylor, Frank H. (See Manly and Taylor.)						
Taylor, Franklin, Wilmington, Del. Manufacture of vulcanized fiber and like material	350,401	Oct. 5	392	113	37	78
Taylor, Fred M., Albion, Mich. Map	348,068	Aug. 24	2269	607	36	908
Taylor, Frederick, *et al.* (See Andrews, William P., assignor.)						
Taylor, Frederick. (See Davis, Arthur W. S., assignor.)						
Taylor, Frederick, Lowell, Mass. Wire hat and coat hook	336,960	Mar. 2	103	28	34	945
Taylor, Frederick, Lowell, Mass. Wire loom-heddle	347,138	Aug. 10	918	245	36	642
Taylor, Frederick A., *et al.* (See Harter, William, assignor.)						
Taylor, Frederick D., assignor to Hartford Fruit Jar Company, Hartford, Conn. Bottle-stopper	337,458	Mar. 9	808	204	34	1078
Taylor, Frederick D., assignor to Hartford Fruit Jar Company, Hartford, Conn. Tool for finishing glass jars	345,194	July 6	543	139	36	99
Taylor, Frederick W., Philadelphia, Pa. Tennis-racket	335,656	Feb. 9	796	212	34	590
Taylor, George, *et al.* (See Thorpe and Richardson, assignors.)						
Taylor, George, Jersey City, N. J., assignor to J. L. Mott Iron Works, New York, N. Y. Needle or spray bath	335,785	Feb. 9	992	262, 263	34	625
Taylor, George and J. H., Nottingham, county of Nottingham, England. Plaiting-machine	334,060	Jan. 12	781	214, 215	34	153
Taylor, George and J. H., Nottingham, county of Nottingham, England. Machine for waving strips of fabric	342,479	May 25	2102	555, 556	35	920
Taylor, George A., New Hampton, Iowa. Stove	335,974	Feb. 9	1251	332	34	671
Taylor, George F., Brooklyn, N. Y., assignor to C. B. Cottrell, Stonington, Conn. Printing-machine	336,673	Feb. 23	2278	595, 596	34	865
Taylor, H. B., *et al.* (See Furey, Cyrus R., assignor.)						
Taylor, Henry E. (See Smedes, Levi K., assignor.)						
Taylor, Hugh E., *et al.* (See Taylor, Samuel S., assignor.)						
Taylor, James H. (See Taylor, George and J. H.)						
Taylor, James H., Westfield, Mass. Churn	345,087	July 6	402	101	36	73
Taylor, James H., Greenville, S. C. Tether	350,277	Oct. 5	242	70	37	50
Taylor, James H., and Z. T. Miller, Philadelphia, Pa. Railway safety-gate	338,316	Mar. 23	1939	511	34	1299
Taylor, James L., Hamilton, assignor of one-half to R. B. Muirhead, Barton township, Wentworth county, Ontario, Canada. Churn	339,495	Apr. 6	548	133	35	101
Taylor, James S., Danbury, Conn. Hat scalding and felting machine	335,657	Feb. 9	797	212	34	590
Taylor, John E., Walla Walla, Wash. Ter. Steam-generator	345,333	July 13	739	187	36	139
Taylor, Joseph A. D., assignor of one-half to J. H. Hoover, Ossian, Ind. Gate	346,787	Aug. 3	413	114	36	541
Taylor, Joseph M. (See Souther and Taylor.)						
Taylor, M. S. (See Taylor, William S., assignor.)						
Taylor, Martin S., Monson, assignor of one-half to T. M. Granger, Springfield, Mass. Ash-sifter	343,347	June 8	856	216	35	1170
Taylor, Oliver H., Brooklyn, assignor to B. C. Anderson, New York, N. Y. Lock-hinge	350,851	Oct. 12	1066	285	37	201
Taylor, Samuel S., Schooley's Mountain, assignor of two-thirds to H. E. Taylor, Washington Township, and W. H. Drake, Hackettstown, N. J. Thill-coupling	341,521	May 11	763	205	35	655
Taylor, Serell, Chicago, Ill. Stallion-testicle supporter	338,371	Mar. 23	2022	531	34	1313
Taylor, Serell, Chicago, Ill. Horse-boot	338,372	Mar. 23	2023	531	34	1313
Taylor, Simon, Newburg, Ind. Calipers	335,487	Feb. 2	554	145	34	510
Taylor, Thomas B., and M. B. Hammond, Bridgeport, Conn. Corset-cover	338,002	Mar. 16	1522	394	34	1212
Taylor, Thomas M., Atlanta, Ga. Platform for railway-track scales	334,095	Jan. 26	2081	556	34	406
Taylor, Thomas P., Bridgeport, Conn. Lacing-stay for corsets	347,449	Aug. 17	1367	364	36	732
Taylor, Thomas P., Bridgeport, Conn. Making bosom-pads	352,208	Nov. 9	715	192	37	597
Taylor, Thomas P., Bridgeport, Conn. Lacing device for corsets	354,668	Dec. 21	1498	397	37	1292
Taylor, Thomas P., and M. B. Hammond, Bridgeport, Conn. Combined corset-cover and dress-shield	349,068	Sept. 14	731	186	36	1184
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Latch	343,348	June 8	857	216	35	1170
Taylor, Warren H., and E. Stockwell, Stamford, Conn. Grain-meter	339,824	Apr. 13	1050	260, 261	35	192
Taylor, Washington, Sing Sing, N. Y. Paper box	343,866	June 15	1578	402	35	1308
Taylor, William. (See Shute and Taylor.)						
Taylor, William, Niles, Mich. Mechanical telephone-diaphragm	335,321	Feb. 2	327	86	34	500
Taylor, William, Chicago, Ill. Bung	336,766	Feb. 23	2393	627	34	888
Taylor, William, Allegheny, assignor to P. D. Nicols, Sewickley, Pa. Wire-nail machine	352,164	Nov. 9	656	173, 174, 175	37	586
Taylor, William O., Cambridge, Mass. Machine for cleaning casks or barrels	334,488	Jan. 19	1418	382	34	277
Taylor, William O., Somerville, Mass. Rolling-pin	353,177	Nov. 23	2023	542	37	862
Taylor, William R., Bridgeport, Conn. Handle for furniture	337,889	Mar. 16	1350	351	34	1181
Taylor, William S., assignor to M. S. Taylor, Huntingdon, Pa. Reciprocating harvester-knife	337,397	Feb. 2	435	112	34	519
Taylor, William W., assignor of one-half to H. F. West, Gloucester, N. J. Machine for doubling and twisting yarns	343,208	June 8	631	157	35	1130

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Teague, Benjamin H., Aiken, S. C. Dental disk	346,331	July 27	2181	559	36	417
Teague, Benjamin H., Aiken, S. C. Arm-rest for dentists	351,079	Oct. 19	1403	369	37	269
Teague, Logan, Arcata, Cal. Pump	353,897	Dec. 7	356	94	37	1072
Teal, Daniel E., Oneida Castle, N. Y. Window-glass setter	352,788	Nov. 16	1467	396	37	749
Teal, Daniel E., Oneida Castle, assignor of one-half to F. J. Aubeuf, Oneida, N. Y. Hand-truck	351,346	Oct. 19	1761	463	37	334
Tecktonius, Emil C., assignor of one-half to Mitchell & Lewis Company, (limited,) Racine, Wis. Vehicle-spring	344,221	June 22	2075	531	35	1406
Teed, William F., Livingston, assignor of one-half to C. I. Hedden, Newark, N. J. Thill-coupling	335,398	Feb. 2	436	112	34	519
Teed, William P., Livingston, assignor of one-half to C. I. Hedden, Newark, N. J. Nut-lock	338,448	Mar. 23	2128	556	34	1332
Teed, William P., Livingston, assignor of one-half to C. I. Hedden, Newark, N. J. Rein-holder	348,176	Aug. 24	2421	649	36	936
Teese, Robert W., Warren, Pa. Dish-tongs or plate-lifter	353,331	Nov. 30	2240	600	37	909
Teeter, Calvin A. (See Teeter, Samuel M. and C. A.)						
Teeter, Samuel M. and C. A., Tuscola, Ill. Horse-detacher	341,610	May 11	890	237	35	679
Tefft, Charles E., and J. M. Smith, assignors of one-third to H. W. Porter, Lonsdale, R. I. Piston-rod oiler	355,283	Dec. 28	2367	622	37	1471
Tefft, James W., Collamer, assignor of one-half to A. S. Hancock, Buffalo, N. Y. Bee-hive	349,126	Sept. 14	814	206	36	1199
Tegethoff, Frank C., Cleveland, Ohio. Metal roofing	334,624	Jan. 19	1603	427	34	310
Teichmann, Richard, Brooklyn, N. Y. Toy-propeller	354,269	Dec. 14	921	243	37	1180
Teipel, Benjamin, Covington, Ky., assignor to Ligowsky Clay Pigeon Company, Cincinnati, Ohio. Target-trap	340,639	Apr. 27	2207	581	35	415
Teipel, Benjamin, Covington, Ky., assignor to Ligowsky Clay Pigeon Company, Cincinnati, Ohio. Target-trap and flying target	342,718	May 25	2452	650	35	983
Telemeter Company. (See Clarke, Charles L., assignor.)						
Telfer, Adam, *et al.* (See Van Ostrand, Thomas, assignor.)						
Teller, Ida A., Unadilla, N. Y. Kitchen utensil	338,449	Mar. 23	2129	557	34	1332
Teller, William E., Moline, assignor of one-half to F. Appelquist, Rock Island, Ill. Road-cart	344,017	June 22	1781	459	35	1352
Temple, Charles E., Terre Haute, Ind. Cutter-head	339,825	Apr. 13	1052	261	35	192
Temple, Charles E., and F. T. Bolton, Terre Haute, Ind. Machine for setting buttons	345,740	July 20	1356	353	36	257
Temple, Edward A., Chariton, Iowa. Rail-joint	348,704	Sept. 7	237	63	36	1090
Temple, Edwin B., Everett, assignor to American Bell Telephone Company, Boston, Mass. Safety device for electric wires	341,289	May 4	457	124	35	588
Temple, John. (See Cunningham, William R., assignor.)						
Temple, Joseph S., Reading, Mass. Necktie-holder	347,073	Aug. 10	833	221	36	626
Temple, Morris D., Chicago, Ill. Rubber bucket for chain-pumps	346,960	Aug. 10	659	176	36	595
Temple, Thomas, Hudson, Mich. Hay-elevator	339,496	Apr. 6	549	133	35	102
Temple, William J., Hampden, assignor of one-half to H. McLaughlin, Bangor, Me. Scraper attachment for ice-planers	354,361	Dec. 14	1047	280	37	1205
Templeton, Levi K., T. B. and W. H. Reed, North Springfield, Mo. Cosmetic wash	349,014	Sept. 14	658	.....	36	1172
Ten Broek, Gerit H., *et al.* (See Duryea, Charles E., assignor.)						
Ten Eyck, Benjamin H., Emporium, Pa. Saw-handle	341,703	May 11	1024	271	35	706
Ten Winkle, Augustus, Detroit, Mich. Printing-surface	337,725	Mar. 9	1133	292	34	1135
Tenant, Hanson P., Dublin, assignor to H. R. Allen, Indianapolis, Ind. Ejector or injector	351,005	Oct. 19	1308	343	37	252
Tengvall, Axel O., New York, N. Y. Electric governor for steam-engines	339,826	Apr. 13	1053	261	35	193
Tennent, Thomas, assignor to J. B. Haggin, San Francisco, Cal. Velocipede-skate	336,600	Feb. 23	2164	566	34	844
Tenney, J. Frank. (See Holt, Horace, assignor.)						
Tennis, John W., Hampton, Va. Oar-lock	354,750	Dec. 21	1615	427	37	1314
Tennison, William, Mount Vernon, Ind. Band-cutter and feeder for thrashers	344,145	June 22	1968	503	35	1386
Tepel, Christian, Pittsburg, Pa. Calipers for inside and outside measurement	347,016	Aug. 10	739	196, 197	36	609
Terman, James W., assignor of three-fourths to H. S. Butler, Des Moines, Iowa. Safety-stop for mining-cages, &c	341,522	May 11	764	205	35	655
Terman, James W., assignor to H. S. Butler, Des Moines, Iowa. Corn-harvester	346,134	July 27	1898	491	36	364
Terpany, Charles H. (See McMurray, Terpany, and Fogleson.)						
Terre Haute Electric Light and Power Company. (See Hammerstein, George J., assignor.)						
Terrell, Henry E., Cheshire, Conn. Game-pin	343,867	June 15	1579	402	35	1308
Terril, Joel F., and W. Simpson, Owosso, Mich. Caster	352,209	Nov. 9	716	192	37	598
Terry, Charles H., Riga, N. Y. Vehicle-spring	337,208	Mar. 2	434	114	34	1006
Terry, Charles H., Riga, N. Y. Car-coupling	339,711	Apr. 13	906	223	35	166
Terry, David A. (See Dunn and Terry.)						
Terry, Edward C., Hartford, Conn. Piston water-meter	344,064	June 22	1852	475, 476	35	1365
Terry, Edward C., Hartford, Conn. Piston water-meter	355,037	Dec. 28	2010	529, 530	37	1400
Terry, Francis P. (See Huttemeyer, George C., assignor.)						
Terry, George. (See Newton and Terry.)						
Terry, George M. (See Sutton and Terry.)						
Terry, Le Grand, North Elmira, N. Y. Door-hanger	343,779	June 15	1471	369	35	1287
Terry, Norton M. (See Austin, Alonzo D., assignor.)						
Terry, Samuel H., Brooklyn, N Y. Metallic pole for use as a telegraph-pole	338,115	Mar. 16	1672	434	34	1240
Terry, Samuel H., Brooklyn, N. Y. Car-brake	345,263	July 6	640	162, 163	36	116
Terry, Samuel H., Fulton, Mo. Grip for cable roads	353,178	Nov. 23	2024	542, 543	37	862
Terry, Thomas W. (See Pinckney, Charles C., assignor.)						
Terry, Thomas W., Baltimore, Md. Letter envelope-sheet	336,446	Feb. 16	1956	512	34	802
Terwilliger, Silas. (See Conklin and Terwilliger.)						
Terstegge, Gohmann & Co. (See Gobeille and Wicke, assignors.)						
Tesch, Julius, Columbia, Mo. Insect-trap	341,290	May 4	458	124	35	588
Teske, Charles, Windsor, Conn. Watch-movement holder	345,815	July 20	1463	378	36	275
Tesla Electric Light and Manufacturing Company. (See Tesla, Nikola, assignor.)						
Tesla, Nikola, Smiljan Lika, Austria-Hungary, assignor to Tesla Electric Light and Manufacturing Company, Rahway, N. J. Commutator for dynamo-electric machines	334,823	Jan. 26	1866	497	34	367
Tesla, Nikola, Smiljan Lika, Austria-Hungary, assignor to Tesla Electric Light and Manufacturing Company, Rahway, N. J. Electric-arc lamp	335,786	Feb. 9	994	263	34	625
Tesla, Nikola, Smiljan Lika, Austria-Hungary, assignor to Tesla Electric Light and Manufacturing Company, Rahway, N. J. Electric-arc lamp	335,787	Feb. 9	995	263, 264	34	626
Tesla, Nikola, Smiljan Lika, Austria-Hungary, assignor to Tesla Electric Light and Manufacturing Company, Rahway, N. J. Regulator for dynamo-electric machines	336,961	Mar. 2	103	28, 29	34	945
Tesla, Nikola, Smiljan Lika, Austria-Hungary, assignor to Tesla Electric Light and Manufacturing Company, Rahway, N. J. Regulator for dynamo-electric machines	336,962	Mar. 2	105	29	34	945

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Tesla, Nikola, Smiljan Lika, Austria-Hungary, assignor to Tesla Electric Light and Manufacturing Company, Rahway, N. J. Regulator for dynamo-electric machines	350,954	Oct. 19	1199	319	37	233
Teter, William L., Philadelphia, Pa. Machine-belting	341,704	May 11	1025	271	35	706
Tetreault, Taussaint. (See Janotte, Joseph, assignor.)						
Teufel, Christoph F., Woolstock, Iowa. Storm-window	341,112	May 4	192	60	35	540
Teufel, Christoph F., Woolstock, Iowa. Storm-door	346,788	Aug. 3	414	114	36	541
Teufel, Julius. (See Teufel, Wilhelm and J.)						
Teufel, Wilhelm, Stuttgart, Würtemberg, Germany. Abdominal support	344,065	June 22	1854	476	35	1365
Teufel, Wilhelm and J., Stuttgart, Germany. Abdominal bandage	347,532	Aug. 17	1480	392	36	753
Tevis, Edwin L., assignor of three-tenths to J. N. Whelen, Philadelphia, Pa. Safety-gate for car-platforms	353,898	Dec. 7	357	95	37	1072
Tewksbury, George C., New York, N. Y., assignor of one-fourth to W. C. McIntire, Washington, D. C. Hand seal-press	343,780	June 15	1472	369	35	1287
Tewksbury, Hermann D., *et al.* (See Hanlon, Joseph P. A., assignor.)						
Thacher, Horace C., and G. H. Breymann, Toledo, Ohio. Submerged filtering-chamber for public water-supply	342,652	May 25	2349	620	35	965
Thackara, Swain, Camden, N. J. Electrical time piece	351,222	Oct. 19	1597	419	37	305
Thackston, Richard D., assignor of one-half to H. I. Coe, St. Louis, Mo. Self-closing hatchway	341,073	May 4	137	41	35	530
Thackston, Richard D., assignor of one-half to H. I. Coe, St. Louis, Mo. Self-closing hatchway	341,074	May 4	138	41	35	530
Thaison, William, Austin, Tex. Brick-machine	353,095	Nov. 23	1907	513	37	839
Thal, Frederick W., Milwaukee, Wis. Cravat-retainer	345,934	July 20	1626	419	36	305
Thal, Frederick W., Milwaukee, Wis. Cravat-retainer	345,935	July 20	1626	419	36	305
Thalheimer Brothers. (See Hornich, William, assignor.)						
Thamer, George R. (See Smith, William W., assignor.)						
Thatcher, Frederick B. (See Johnson and Thatcher.)						
Thatcher, Frederick B., Bridgeport, Conn., assignor, by mesne assignments, to Ætna Stopper Company, Pawtucket, R. I. Attachment for bottling-machines	352,165	Nov. 9	660	175	37	587
Thatcher, Hervey D., and H. P. Barnhart, Potsdam, N. Y. Fastening device for bottles	340,833	Apr. 27	2471	650	35	462
Thatcher, John M., Brooklyn, N. Y. Fire-grate for furnaces and stoves	339,235	Apr. 6	172	44, 45	35	33
Thatcher, John T., *et al.* (See Greene, John W. and A. H., assignors.)						
Thau, Franz, Baltimore, Md. Gate for vats	352,073	Nov. 2	496	134	37	552
Thau, Henry, New York, N. Y. Electrical signaling apparatus	335,852	Feb. 9	1079	285	34	642
Thaxter, James, Winnebago, Ill. Stove-truck	342,816	June 1	54	14	35	1016
Thaxton, William W., Jackson, Ga. Water-elevator	348,601	Sept. 7	96	28	36	1064
Thayer, Charles, Ann Arbor, Mich. Car-coupling	347,660	Aug. 17	1682	448	36	792
Thayer, Eugene, New York, N. Y. Music-satchel	338,569	Mar. 23	2281	598	34	1358
Thayer, Henry A., New York, N. Y., assignor, by mesne assignments, to G. S. Hulbert, East Orange, N. J. Folding bed	337,635	Mar. 9	1023	263	34	1117
Thayer, James F., Providence, R. I. Manufacture of ornamental nails	334,625	Jan. 19	1603	427	34	310
Thayer, James F., Providence, R. I. Machine for securing buttons to fabrics	337,636	Mar. 9	1024	263	34	1117
Thayer, James F., Providence, R. I. Making buttons	338,373	Mar. 23	2024	531	34	1313
Thayer, James F., Providence, R. I. Hammock-stick	339,345	Apr. 6	333	83	35	63
Thayer, James F., Providence, R. I. Button-fastener	340,686	Apr. 27	2273	599	35	426
Thayer, James F., Providence, R. I. Button-fastener	341,965	May 18	1361	364	35	778
Thayer, James F., Providence, R. I. Button-fastener-detaching implement	342,480	May 25	2104	556	35	920
Thayer, James F., Providence, R. I. Staple-fastener	343,209	June 8	632	157	35	1131
Thayer, James F., Providence, R. I. Button-fastener	344,018	June 22	1782	459	35	1353
Thayer, John C. (See Reid and Thayer.)						
Thayer, Orlando A., Paris, Me. Steering attachment for sleds	344,146	June 22	1970	503	35	1386
Thayer, Russell, Philadelphia, Pa. Quieter for locomotive exhaust-nozzles	352,720	Nov. 16	1386	375	37	733
Theinert, Charles, New York, N. Y. Taping furs	354,362	Dec. 14	1048	280	37	1205
Theisen, Mathias C., Diana, Dakota Ter. Harrow	352,279	Nov. 9	808	216	37	614
Thelen, Nicholas. (See Cluever and Thelen.)						
Theller, Samuel L. (See Caspari, Charles F. B., assignor.)						
Then, Valentine. (See Koch and Then.)						
Theobald, J. Wendel, Newark, N. J. Shaft-tug guard	341,075	May 4	139	41	35	531
Thie, Otto, Union Hill, N. J. Finger-ring	333,696	Jan. 5	275	74	34	52
Thiele, John L. (See Sanders, William B., assignor.)						
Thielsen, Julius E. E., E. L. Giroux, and H. W. Dilg, Portland, Oreg. Amalgamating apparatus	337,535	Mar. 9	903	230	34	1094
Thieme, Moritz E., Leipsic, Saxony, Germany. Machine for rolling almond paste	353,765	Dec. 7	155	45	37	1035
Thierry, Alfred L. (See Thierry, Jules A. and A. L.)						
Thierry, Jules A. and A. L., Regent Street, county of Middlesex, England. Manufacture of tops for boots and legs for long boots	342,653	May 25	2350	620	35	965
Thiery, Edward A., and C. F. Croselmire, Newark, N. J. Article of jewelry and ornamenting the same	333,697	Jan. 5	275	75	34	52
Thiers, Susan J., New York, N. Y. Hat-mirror	341,184	May 4	296	84	35	559
Thies, Carl A., Concord, N. C. Cam for stamp-mills	336,447	Feb. 16	1958	512	34	802
Thies, Carl A., Concord, N. C. Tappet for stamp-mills	347,661	Aug. 17	1684	448	36	792
Thies, Frederick. (See Schubert and Thies.)						
Thies, John B., Dayton, Ohio. Fence-making machine	335,399	Feb. 2	436	112	34	519
Thies, John B., Dayton, Ohio. Reel for fence-making machines	337,637	Mar. 9	1026	263	34	1117
Thies, John B., Dayton, Ohio. Fence-making machine	337,638	Mar. 9	1026	264	34	1118
Thillman, Nicholas W. (See Renshaw and Thillman.)						
Thissell, Earl A. (See Emerson, James, assignor.)						
Thistle, Edward, West Hoboken, N. J. Door-knob	337,093	Mar. 2	280	74	34	978
Thoens, Burchard. (See Cook and Thoens.)						
Thom, John, Barrow-in-Furness, county of Lancaster, England. Valve for engines	344,881	July 6	125	31	36	22
Thoma, Anton. (See Hann and Thoma.)						
Thoman, Henry, Leesville Cross Roads, Ohio. Straw-carrier	336,448	Feb. 16	1958	513	34	802
Thomas, Abner D., Little Rock, Ark. Cotton-press	354,270	Dec. 14	923	243	37	1180
Thomas, Addison C., Chicago, Ill. Feed-guide for type-writing machines	335,488	Feb. 2	556	146	34	540
Thomas, Addison C., Chicago, Ill. Feed-guide for type-writing machines	339,497	Apr. 6	551	133	35	102
Thomas, Allen W., and G. W. Way, Portland, Me. Burglar-alarm	336,449	Feb. 16	1960	513 / 514	34	802
Thomas, Almer B., West Randolph, Vt. Tub or box cover fastener	344,691	June 29	2709	704	35	1530
Thomas, Andrew J. (See Frazee and Thomas.)						
Thomas, Arnold, *et al.* (See Tickle and Leonardt, assignors.)						
Thomas, Cash C., Evansville, Ind. Safety lock or catch for shafts or elevators	339,032	Mar. 30	2965	784	34	1485
Thomas, Charles E., Williamstown, N. J. Machine for finishing the mouths of glass bottles	348,797	Sept. 7	346	94	36	111
Thomas, Charles R., Lyons, Mich. Sulky-plow	335,400	Feb. 2	438	113	34	519

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Thomas, E. De Witt, Rochester, N. Y. Switch-lock for railways	343,407	June 8	948	237	35	1187
Thomas, Edward F. (See Simmons, George W., assignor.)						
Thomas, Edward W., Lowell, Mass. Spindle and bobbin-support therefor for spinning-machines	346,135	July 27	1899	491	36	364
Thomas, Edward W., assignor to Lowell Machine Shop, Lowell, Mass. Mechanism for stripping the flat cards of carding-machines	340,167	Apr. 20	1527	386, 387	35	285
Thomas, Edwin, Hokendauqua, Pa. Device for loading pig-iron	344,222	June 22	2076	531	35	1406
Thomas, Frank A., Cedar Rapids, Iowa. Rope-fastening	346,390	July 27	2263	580	36	433
Thomas, Frank A., Cedar Rapids, Iowa. Rope-clasp	351,541	Oct. 26	2084	541	37	401
Thomas, Franklin, and G. M. Kay, Letart, W. Va. Horse-detacher	349,127	Sept. 14	816	207	36	1200
Thomas, George C., *et al.*, executors. (See Saunders, Frank.)						
Thomas, George H., Chicopee Falls, Mass. Egg-beater	350,023	Sept. 28	2043	527	36	1452
Thomas, George J., Newton, Mass. Combined sash balance and fastener	337,536	Mar. 9	905	231	34	1095
Thomas, George L. (See Carlile, George F., assignor.)						
Thomas, George W., Toledo, Ohio. Wheelbarrow-wheel	339,712	Apr. 13	908	223	35	166
Thomas, George W., Toledo, Ohio. Packing wheelbarrows for shipment	343,261	June 8	710	176	35	1144
Thomas, Henry H., N. F. and J. A. Howard, Dahlonega, Ga. Brake-shoe for vehicles	339,949	Apr. 13	1219	303	35	224
Thomas, Henry J., assignor of four-sixths to A. E. Pratt, New York, and S. C. Thompson, Brooklyn, N. Y. Type-writing machine	346,000	July 20	1719	443, 444	36	321
Thomas, Henry O., Fremont, Nebr. Bedclothes-holder	348,427	Aug. 31	2776	746	36	1011
Thomas, Henry O., Fremont, Nebr. Gate	350,571	Oct. 12	665	182	37	137
Thomas, Henry O., Fremont, Nebr. Bedclothes-holder	351,411	Oct. 26	1897	494	37	364
Thomas, Horace S. (See Stuempfle and Thomas.)						
Thomas, Hugh, assignor of one-half to himself and J. M. Henley, New York, N. Y. Combined inhaler and atomizer	335,322	Feb. 2	328	86	34	500
Thomas, James E., Newark, Ohio. Coal-filling and gas-controlling device for magazine-boilers	341,360	May 4	545	150	35	603
Thomas, James W., Muncie, Ind. Steamboat and water wheel	334,824	Jan. 26	1867	497	34	367
Thomas, John, Cedar Rapids, Iowa. Harness-saddle	335,161	Feb. 2	89	24	34	456
Thomas, John H., *et al.* (See Gerber, Charles, assignor.)						
Thomas, John H. (See Paxson, Charles H., assignor.)						
Thomas, John H. (See Waters, Frank M., assignor.)						
Thomas, John H., and J. E. Offutt, Springfield, Ohio; said Offutt assignor to said Thomas. Combined hay rake and tedder	337,891	Mar. 16	1352	351, 352	34	1182
Thomas, John H., and J. E. Offutt, Springfield, Ohio; said Offutt assignor to said Thomas. Coupling-iron for tedders	344,604	June 29	2602	674	35	1509
Thomas, Joseph. (See Gieffels and Thomas.)						
Thomas, Joseph, New York, N. Y., assignor to Thomas Machine Cutting Company. Cloth-cutting machine	340,964	Apr. 27	2647	697	35	493
Thomas, Leander E., and I. Wood, Shell Lake, Wis. Fire and burglar alarm	349,911	Sept. 28	1887	487	36	1424
Thomas Machine Cutting Company. (See Thomas, Joseph, assignor.)						
Thomas, Martin M., *et al.* (See Hanson, Charles M., assignor.)						
Thomas, Nathan R., Pettisville, Ohio. Door check and holder	348,428	Aug. 31	2777	746	36	1012
Thomas, Robert M., Cardington, Ohio. Combined walking-cane and whip	344,757	June 29	2798	724	35	1545
Thomas, Stephen V., West Branch, Mich. Cuff-fastener	344,605	June 29	2603	674	35	1510
Thomas, T. Fred. (See Guest, John H., assignor.)						
Thomas, William, Jersey City, N. J., assignor to Bishop & Babcock, Cleveland, Ohio. Hydraulic air-compressor	337,209	Mar. 2	434	114	34	1006
Thomas, William B., Green Camp, Ohio. Post-holder	349,240	Sept. 14	966	246	36	1229
Thomas, William H., Eau Claire, Wis. Hot-air furnace	342,399	May 25	1991	526	35	899
Thomas, William M., assignor of one-half to Grand Rapids Electric Light and Power Company, Grand Rapids, Mich. Regulator for electric-light circuits	333,698	Jan. 5	276	75	34	53
Thomas, William W., Jr. (See Envall, Gustaf, assignor.)						
Thomason, Charles S., Indore, India. Apparatus for use in grinding and sharpening tools	352,789	Nov. 16	1469	396, 397, 398	37	749
Thomason, John W., Salado, Tex. Car-coupling	339,498	Apr. 6	552	134	35	102
Thomlinson, John, Knothill Works, Carlisle, England. Plaster or cement	334,489	Jan. 19	1419	.....	34	277
Thommen, Gedeon, Waldenburg, near Basle, Switzerland. Watch	347,139	Aug. 10	920	245, 246	36	642
Thompson, Albert. (See Kenworthy, Sexton, and Thompson.)						
Thompson, Alfred, and R. O. Ritchie, London, England. Automatic fire-extinguishing apparatus	353,766	Dec. 7	155	44	37	1036
Thompson, Arthur G., *et al.* (See Mower, Samuel E., assignor.)						
Thompson, Arthur G., *et al.* (See Mower and Fowler, assignors.)						
Thompson, Charles, Halifax, county of York, England. Loom	343,284	June 8	743	184, 185	35	1150
Thompson, Charles A., Flushing, N. Y. Grease-feeder for lubricating purposes	340,256	Apr. 20	1670	424	35	310
Thompson, Charles C. (See McKenzie, Joseph C., assignor.)						
Thompson, Charles E. (See Palmer and Thompson.)						
Thompson, Charles E., Lansingburg, N. Y. Fire-kindler	344,880	July 6	124	.....	36	22
Thompson & Co., Charles H., *et al.* (See Procter, John N., assignor.)						
Thompson, Columbus E., Baltimore, Md. Lubricating compound	335,546	Feb. 2	633	.....	34	554
Thompson, David, Byron, Mich. Thill-coupling	339,713	Apr. 13	908	223	35	166
Thompson, David, Byron, Mich. Thill-coupling	347,842	Aug. 24	1938	514	36	848
Thompson, David M., Providence, R. I. Carding-engine	347,662	Aug. 17	1685	448, 449	36	792
Thompson, Edward H. (See Thompson, Francis and E. H.)						
Thompson, Edwin, Providence, R. I. Garment-supporter	334,307	Jan. 12	1162	311	34	224
Thompson, Evert M., Evansville, Ind. Mechanism for making metal pipes	349,015	Sept. 14	659	170	36	1172
Thompson, Evert M., Evansville, Ind. Packing wooden dishes	351,006	Oct. 19	1309	344	37	252
Thompson, Francis and E. H., Allegheny City, Pa. Cigar-bunching machine	349,069	Sept. 14	731	186, 187	36	1185
Thompson, Frank E., and J. W. Stedman, Elkhart, Ind.; said Stedman assignor to said Thompson. Bench-plate	349,619	Sept. 21	1477	382	36	1338
Thompson, Franklin A., Fonda, Iowa. Hame attachment	352,432	Nov. 9	1001	270	37	653
Thompson Gas Kiln and Oven Company. (See Lamb, Richard, assignor.)						
Thompson Gas Kiln and Oven Company. (See Thompson, William H., assignor.)						
Thompson, George F., assignor of one-third to E. A. Adams, Olean, N. Y. Key for telegraph-instruments	343,742	June 15	1431	357	35	1279
Thompson, George H., *et al.* (See Steenbarger, Curtis M., assignor.)						
Thompson, George H., Frostburg, Md. Window-shutter	352,588	Nov. 16	1198	324	37	697
Thompson, George H., Reading, and W. H. Rothermel, Maiden Creek, Pa. Washing-machine	340,168	Apr. 20	1531	387, 388	35	285

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Thompson, George L. (See Dunn, Rufus P., assignor.)						
Thompson, H. Grant, *et al.* (See Mower, Samuel E., assignor.)						
Thompson, Harry G., *et al.* (See Mower, Samuel E., assignor.)						
Thompson, Harry G., *et al.* (See Mower and Fowler, assignors.)						
Thompson, Henry, Canonbury, London, England. Furnace for steam-boilers	353,610	Nov. 30	2654	709, 710	37	987
Thompson, Henry G., *et al.* (See Mower, Samuel E., assignor.)						
Thompson, Henry G., *et al.* (See Mower and Fowler, assignors.)						
Thompson, Herbert J., Ogema, Wis. Saw-table	346,241	July 27	2060	529	36	395
Thompson, Hugh M., St. Louis, Mo. Amalgamator	346,517	Aug. 3	87	23, 24	36	477
Thompson, James M., and F. Jones, San Francisco, Cal.; said Jones assignor to said Thompson. Propulsion of cars by compressed air	352,985	Nov. 23	1741	466	37	808
Thompson, James V., Fort Madison, Iowa. Cartridge-loader	346,242	July 27	2061	529	36	395
Thompson, John, assignor to Bucyrus Foundry and Manufacturing Company, Bucyrus, Ohio. Dredging-machine	341,611	May 11	891	237	35	679
Thompson, John, assignor to Bucyrus Foundry and Manufacturing Company, Bucyrus, Ohio. Dredging-machine	341,612	May 11	893	237, 238	35	680
Thompson, John, assignor to Bucyrus Foundry and Manufacturing Company, Bucyrus, Ohio. Dredging-machine	341,613	May 11	895	238	35	680
Thompson, John, assignor to Bucyrus Foundry and Manufacturing Company, Bucyrus, Ohio. Dredging-machine	341,614	May 11	896	238, 239	35	680
Thompson, John, Philadelphia, Pa., assignor to Automatic Cigar Machine Company, of New Jersey. Cigar and cigaretta machine	353,517	Nov. 30	2515	671	37	961
Thompson, John B., Lutesville, Mo. Cover-fastening for shipping-cases	349,863	Sept. 28	1829	472	36	1412
Thompson, Joseph T., Verona, N. Y. Ice-scraper	340,169	Apr. 20	1532	388	35	286
Thompson, La Marcus A., Philadelphia, Pa. Pleasure cable railway	348,798	Sept. 7	347	94, 95	36	1112
Thompson, Lester P., Phelps, N. Y. Hammock-chair	340,687	Apr. 27	2274	599	35	426
Thompson, Lester P., Phelps, N. Y. Hilling-plow	348,069	Aug. 24	2270	608	36	908
Thompson, Mark S., and H. A. Lee, New York, N. Y.; said Thompson assignor to said Lee. Device for feeding salt or compressed feed to cattle	342,885	June 1	156	40	35	1034
Thompson, Milo, Lansingburg, N. Y. Brush	349,673	Sept. 21	1539	397	36	1351
Thompson, Milton E., Bartow, Fla. Plotter for drafting	335,853	Feb. 9	1082	286	34	642
Thompson & Norris. (See Peer, John A., assignor.)						
Thompson, Perley & Waite. (See Kenna, Joseph W., assignor.)						
Thompson, Perley & Waite. (See Parker, Frederick A., assignor.)						
Thompson, Phillip K. (See Wilkinson, Horatio S., assignor.)						
Thompson, Rachel S., Hamilton, Ohio. Caster	340,170	Apr. 20	1534	388	35	286
Thompson, Robert A., assignor of one-third to G. W. Maize, Weaubleau, Mo. Draft-equalizer	335,975	Feb. 9	1251	332	34	671
Thompson, Rosewell. (See Cummings, Bennett, and Thompson.)						
Thompson, Rosewell, assignor to Morley Button Sewing Machine Company, Boston, Mass. Attaching shank-buttons to boots and shoes	341,821	May 11	1171	313	35	735
Thompson, Rosewell, Bridgeport, Conn., assignor to Morley Button Sewing Machine Company, Boston, Mass. Machine for sewing shank-buttons to boots, &c	353,609	Nov. 30	2648	708, 709	37	986
Thompson, Sidney C., *et al.* (See Thomas, Henry J., assignor.)						
Thompson, Silvanus P., University College, Bristol, England. Magneto-telephone	339,500	Apr. 6	555	134	35	103
Thompson, Silvanus P., London, county of Middlesex, England. Telephone-transmitter	339,501	Apr. 6	557	134	35	103
Thompson, Silvanus P., and P. Jolin, Bristol, county of Gloucester, England. Telephone-transmitter	339,499	Apr. 6	554	134	35	103
Thompson & Sons, J. (See Heberling, George P., assignor.)						
Thompson, Taylor, *et al.* (See Weaver, Edward P., assignor.)						
Thompson, Thomas, Pittsburg, Pa. Nut-lock	341,185	May 4	297	84	35	559
Thompson, Thomas, Edenton, N. C., assignor of one-fourth to A. Rutherford, Washington, D. C. Fish-trap	353,767	Dec. 7	157	44	37	1036
Thompson, Thomas V., *et al.* (See Bold, Fred, assignor.)						
Thompson, W. L., *et al.* (See Steenbarger, Curtis M., assignor.)						
Thompson, William, *et al.* (See McAneny and Rieley, assignors.)						
Thompson, William F. (See Day, Andrew J., assignor.)						
Thompson, William H. (See Knowles, John A., Jr., assignor.)						
Thompson, William H., Leeds, county of York, England, assignor to Thompson Gas Kiln and Oven Company. Baker's oven	336,767	Feb. 23	2394	628	34	888
Thompson, William M., Leeds, county of York, England, assignor to Thompson Gas Kiln and Oven Company, New York, N. Y. Gas-heated baker's oven	341,615	May 11	899	239	35	681
Thompson, William H., assignor of one-half to I. S. Gordon and W. E. Kurtz, Indianapolis, Ind. Nut-lock	351,923	Oct. 19	1598	420	37	306
Thompson, William J., St. Paul, Minn. Sash-balance	347,396	Aug. 17	1286	342	36	718
Thompson, William P. (See McIlvenna, Felix, assignor.)						
Thompson, William P., *et al.* (See McIlvenna and Rollason, assignors.)						
Thompson, William P., Philadelphia, Pa. Furnace and grate	335,658	Feb. 9	798	213	34	591
Thoms, Frederick, *et al.* (See Rice, Hannibal, assignor.)						
Thomsen, Christian W., assignor of one-half to A. A. Brown, Cincinnati, Ohio. Shoe-heeling machine	354,271	Dec. 14	924	244	37	1181
Thomson & Co., Judson L. (See Thomson, Judson L., assignor.)						
Thomson & Co., Judson L. (See Unbehend, Jacob J., assignor.)						
Thomson, Alexander, Fitchburg, Mass. Riveting-machine	335,976	Feb. 9	1252	333	34	671
Thomson, Archie, Chattanooga, Tenn. Balanced slide-valve	337,714	Mar. 9	1120	289	34	1133
Thomson, Elihu, Lynn, Mass. Dynamo-electric machine	333,573	Jan. 5	102	29	34	22
Thomson, Elihu, Lynn, Mass. Electric motor	335,547	Feb. 2	614	166	34	554
Thomson, Elihu, Lynn, Mass. Switch or turn-off for electric circuits	335,548	Feb. 2	635	166	34	554
Thomson, Elihu, Lynn, Mass. Electric switch	339,714	Apr. 13	909	223	35	166
Thomson, Elihu, Lynn, Mass. Electro-magnetic motor	345,334	July 13	740	187	36	140
Thomson, Elihu, Lynn, Mass. Socket for incandescent lamps	345,335	July 13	743	188	36	140
Thomson, Elihu, Lynn, Mass. Commutator-brush	345,336	July 13	746	188	36	140
Thomson, Elihu, Lynn, Mass. Apparatus for electric welding	347,140	Aug. 10	921	246	36	642
Thomson, Elihu, Lynn, Mass. Apparatus for electric welding	347,141	Aug. 10	924	246, 247	36	643
Thomson, Elihu, Lynn, Mass. Electric welding	347,142	Aug. 10	925	247	36	643
Thomson, Elihu, Lynn, Mass. Compound-wound dynamo-electric machine	349,912	Sept. 28	1887	488	36	1424
Thomson, Elihu, Lynn, Mass. Electro-magnet	350,957	Oct. 19	1295	320	37	234
Thomson, Elihu, Lynn, Mass. Distribution of electric currents	350,958	Oct. 19	1207	321	37	234
Thomson, Elihu, Lynn, Mass. Regulator for electric currents	353,179	Nov. 23	2028	543	37	863
Thomson, Elihu, Lynn, Mass. Regulator for dynamo-electric machines, motors, &c	353,180	Nov. 23	2031	543, 544	37	864
Thomson, Elihu, Lynn, Mass. Regulator for dynamo-electric machines	354,273	Dec. 14	928	244	37	1181
Thomson, Elihu, Lynn, Mass. Induction-coil	354,274	Dec. 14	929	245	37	1181

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Thomson, Elihu, New Britain, Conn., assignor to Thomson-Houston Electric Company, Boston, Mass. Incandescent electric lamp	335,158	Feb. 2	82	22	34	455
Thomson, Elihu, New Britain, Conn., assignor to Thomson-Houston Electric Company, Boston, Mass. System of electric distribution	335,159	Feb. 2	84	22, 23	34	455
Thomson, Elihu, New Britain, Conn., assignor to Thomson-Houston Electric Company, Boston, Mass. Incandescent electric lamp	335,160	Feb. 2	88	23, 24	34	456
Thomson, Elihu, New Britain, Conn., assignor to Thomson-Houston Electric Company, of Connecticut. Cut-out apparatus for electric lamps	350,955	Oct. 19	1201	320	37	233
Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Automatic compensator for magnets	350,956	Oct. 19	1202	320	37	233
Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Apparatus for the distribution of electricity by means of secondary batteries	354,272	Dec. 14	925	244	37	1181
Thomson, Elihu, and E. W. Rice, Jr., Lynn, Mass. Holder for incandescent lamps	344,692	June 29	2710	704	35	1530
Thomson, Elihu, and E. W. Rice, Jr., Lynn, Mass., assignors to Thomson-Houston Electric Company, of Connecticut. Automatic cut-out for electric lamps	338,208	Mar. 16	1790	467	34	1264
Thomson, Elihu, and E. W. Rice, Lynn, Mass., assignors to Thomson-Houston Electric Company, of Connecticut. Regulator for dynamo electric machines	339,079	Mar. 30	3026	799, 809	34	1495
Thomson, Frederick W., Maitland, county of Hants, Nova Scotia, Canada. Windlass	334,682	Jan. 19	1682	449	34	325
Thomson, George G. (See Banks, Charles W., assignor.)						
Thomson, George R., Gouverneur, N. Y. Disk-harrow	352,210	Nov. 9	717	192	37	598
Thomson, George R., and J. B. Johnson, Gouverneur, N. Y. Land-roller and seed-sower	342,053	May 18	1481	396, 397	35	799
Thomson-Houston Electric Company. (See Thomson, Elihu, assignor.)						
Thomson-Houston Electric Company. (See Thomson and Rice, assignors.)						
Thomson, James. (See Wray and Thomson.)						
Thomson, John. (See Mead and Thomson.)						
Thomson, John, Aledo, Ill. Check-row attachment for corn-planters	333,699	Jan. 5	277	75	34	53
Thomson, John, Brooklyn, N. Y. Staple-machine	334,909	Jan. 26	1971	524, 525	34	387
Thomson, John, Brooklyn, N. Y. Counting-register	337,890	Mar. 16	1351	351	34	1182
Thomson, John, and R. W. Mullins, Kansas City, Mo.; said Thomson assignor to said Mullins. Excavating apparatus	338,803	Mar, 30	2628	692	34	1425
Thomson, John T., Invercargill, New Zealand, assignor to J. Clay, Jr., and W. H. Forrest, Chicago, Ill. Wind-wheel	337,094	Mar. 2	282	74, 75	34	979
Thomson, Judson L., Syracuse, N. Y. Rivet	333,700	Jan. 5	278	75	34	53
Thomson, Judson L., Syracuse, N. Y. Applying wear-points to rubber boots and shoes	335,323	Feb. 2	330	87	34	501
Thomson, Judson L., assignor to J. L. Thomson & Co., Syracuse, N. Y. Attaching wear-points to rubber boots	354,495	Dec. 14	1224	328	37	1237
Thomson, Judson L., assignor to J. L. Thomson & Co., Syracuse, N. Y. Rubber boot or shoe	354,496	Dec. 14	1225	328	37	1237
Thomson, Langdon & Co. (See Baldwin, Byron, assignor.)						
Thomson, William, Glasgow, county of Lanark, Scotland. Navigational sounding apparatus	352,589	Nov. 16	1199	324, 325, 326	37	697
Thone, Frank, Fort Wayne, Ind. Electric-arc light	348,799	Sept. 7	350	95	36	1113
Thonssen, Gustave H., St. Louis, Mo. Picture-frame	337,033	Mar. 2	206	54	34	963
Thorn, Charles, Jr. (See Shattuck and Thorn.)						
Thorn, Jacob S., Philadelphia, Pa. Combination metallic roofing tile-plate	347,843	Aug. 24	1939	515	36	848
Thorn, Jacob S., Philadelphia, Pa., and C. Leffler, Brooklyn, N. Y.; said Leffler assignor to said Thorn. Metallic roofing-tile	341,966	May 18	1361	364	35	778
Thorn, Jacob S., Philadelphia, Pa., and C. Leffler, Brooklyn, N. Y.; said Leffler assignor to said Thorn. Metallic roofing-tile	341,967	May 18	1363	364	35	778
Thorn, Theodore, St. Clair, Pa. Clamping-bracket	334,825	Jan. 26	1868	497	34	368
Thorn, Thomas B., Vincennes, Ind. Farm-gate	334,727	Jan. 19	1742	465	34	337
Thorn Wire Hedge Company. (See Briggs, Orlando P., assignor.)						
Thornberry, Henry S., assignor to America Bell Telephone Company, Boston, Mass. Telephone-transmitter	336,268	Feb. 16	1709	446	34	755
Thornburgh, William, Elyria, Ohio. Semaphore-signal	346,243	July 27	2062	529	36	395
Thorndike, Frank H. (See Anthoine and Thorndike.)						
Thorne, Elwood, Marlborough, Pa. Machine for making wire fences	351,816	Nov. 2	121	33, 34	37	481
Thornton, Henry H., Boston, Mass. Steam-boiler	341,705	May 11	1026	271	35	706
Thornton, James, Long Branch, N. J. Blind or shutter for windows	340,387	Apr. 20	1852	475	35	345
Thornton, James, Wellsville, assignor to Pratt & Letchworth, Buffalo, N. Y. Breast-ring attachment	347,533	Aug. 17	1480	392	36	754
Thornton, John C., Mount Vernon, Ind. Apparatus for cleaning oil	337,459	Mar. 9	809	205	34	1078
Thornton, John J. (See Farrar and Thornton.)						
Thornton, John J., and P. Hubbard, assignors of one-third to E. W. Lyon, Greensborough, N. C. Bosom-board	352,790	Nov. 16	1472	398	37	749
Thornton, Joseph F., assignor to Union Eyelet Company, Providence, R. I. Button-fastener	335,162	Feb. 2	90	24	34	456
Thornton, Richard. (See Heavner and Thornton.)						
Thornton, Stephen M., *et al.* (See Strait, Andrew V., assignor.)						
Thornton, Thomas, Tidioute, Pa. Combined rotary engine and blower	340,834	Apr. 27	2472	650, 651	35	462
Thornycroft, John I., Chiswick, county of Middlesex, England. Steering apparatus for vessels	343,679	June 15	1323	331	35	1260
Thornycroft, John I., Chiswick, county of Middlesex, England. Rudder for steering vessels	348,070	Aug. 24	2271	608	36	908
Thorp, Henry H., Cleveland, Ohio. Ink-fountain for printing-machines	345,654	July 13	1235	319, 320	36	228
Thorpe, George J., and J. H. Richardson, Manchester, assignors to G. Taylor, London, and D. Boyd, Manchester, England. Ticket punch and register	343,090	June 1	447	114, 115	35	1088
Thorson, Thor O., P. S. and M. W. Peterson, Elliott, Ill. Derrick for loading and stacking hay	353,096	Nov. 23	1909	513	37	840
Thouhboron, James, Brooklyn, N. Y. Show-card	347,534	Aug. 17	1481	393	36	754
Thowles, Orlando M., Newark, N. J. Alloy	338,317	Mar. 23	1941	.....	34	1299
Thrall, William A., Chicago, Ill. Railway-ticket	342,941	June 1	441	61	35	1050
Threm, Francis, Cincinnati, Ohio. Bung	350,402	Oct. 5	392	113	37	79
Throckmorton, James and J. G., Harvey's, Pa. Chuck for rock-drills	347,397	Aug. 17	1287	343	36	718
Throckmorton, James J., assignor to A. H. Bracey, St. Tammany, Va. Car-coupling	350,959	Oct. 19	1211	321	37	235
Throckmorton, Joseph G. (See Throckmorton, James and J. G.)						
Thrush, Peary, and D. W. Anra, West Alexandria, Ohio. Car-coupling	344,693	June 29	2711	704	35	1530
Thuma, Daniel W. (See Schmidt and Thuma.)						
Thunborg, Jakob, Evansville, Minn. Nursery-chair	335,324	Feb. 2	331	87	34	501

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Thurber, Edward S., North Providence, R. I. Machine for manipulating horseshoes	342,400	May 25	1992	526	35	900
Thurber, Milton R., and R. B. Brockway, Scranton, Pa. Car-axle lubricator	335,163	Feb. 2	91	24	34	456
Thurlow, Danville, Gardiner, Me. Thill-supporter	348,071	Aug. 24	2272	608	36	909
Thurlow, Winfield S., Norwood, Mass. Attachment for plows	349,264	Sept. 14	996	254	36	1235
Thurman, Edwin R., Nashville, Tenn. Station-indicator	350,784	Oct. 12	957	257, 258	37	182
Thurmond Car Coupling Company. (See Thurmond, William H., assignor.)						
Thurmond, M. S. (See Strong, James T., assignor.)						
Thurmond, William H., Forsyth, Ga., assignor to Thurmond Car Coupling Company. Car-coupling	350,645	Oct. 12	777	212	37	148
Thurmond, William H., Forsyth, Ga., assignor to Thurmond Car Coupling Company. Car-coupling	350,785	Oct. 12	962	258, 259	37	183
Thurnau, Friedrich, and A. Hampe, New York, N. Y. Cigar-bunching machine	343,349	June 8	858	216	35	1170
Thurston, William H., assignor of one-fourth to G. F. Barton, Duke Centre, Pa. Clothes-rack stand	345,741	July 20	1358	353, 354	36	257
Thury, René, assignor, by mesne assignments, to A. De Meuron & Cuénod, Geneva, Switzerland, and G. H. Benjamin, New York, N. Y. Magneto or dynamo electric machine	333,902	Jan. 5	546	148, 149	34	102
Thurzó, Georg N., Vienna, Austria-Hungary. Rotary cap for boot-heels	348,800	Sept. 7	351	95	36	1113
Thuston, Lycurgus, and E. R. Chase, Findlay, Ohio. Sliding gate	336,601	Feb. 23	2165	566	34	844
Thwaite, Benjamin H., Liverpool, county of Lancaster, England. Vacuum-preserving apparatus	344,223	June 22	2078	532	35	1406
Thyss, Jean J., Bakon, Caucasus, Russia. Apparatus for making sulphuric acid	349,241	Sept. 14	967	247	36	1229
Tibbets, Jonathan S., Jeffersonville, Ind. Apparatus for carbureting gas	347,663	Aug. 17	1686	449	36	793
Tibbits, John B. (See McCarty, Norman, assignor.)						
Tibbits, John B. (See Mackie, Robb, assignor.)						
Tibbits, John B. (See Mackie and McCarty, assignors.)						
Tibbitts, Charles N., Denver, Colo. Device for automatically gaging the flow of water	334,095	Jan. 12	838	229	34	163
Tibbitts, Frank R., Cleveland, Ohio. Force and drain faucet	337,210	Mar. 2	436	114	34	1007
Tibbitts, Frank R. and G. W., Cleveland, Ohio. Venting-bung	337,211	Mar. 2	437	114	34	1007
Tibbitts, George W. (See Tibbitts, Frank R. and G. W.)						
Tibbles, George N., Jersey City, N. J. Device for converting reciprocating into rotary motion	346,961	Aug. 10	659	176	36	595
Tice, William H., Indianapolis, Ind. Car-brake	344,694	June 29	2712	705	35	1531
Tichenor, Herbert W. (See Allen and Tichenor.)						
Tickle, John, West Bromwich, and F. Leonardt, Handsworth, county of Stafford, assignors to E. Caddick, West Bromwich, W. Creed, Stroud, and A. Thomas, Newnham, England. Folding and creasing machine	341,361	May 4	547	150, 151	35	603
Tickle, John, West Bromwich, and F. Leonardt, Handsworth, county of Stafford, assignors to E. Carrick, West Bromwich, W. Creed, Stroud, and A. Thomas, Newnham, England, trustees. Machine for labeling packets	346,832	Aug. 3	470	128, 129, 130	36	552
Tickner, Arvin C., Syracuse, N. Y., assignor of one half to J. W. Millington, Chicago, Ill. Bridle-bit	351,007	Oct. 19	1311	344	37	252
Tidmarsh, Harry E., *et al.* (See Wells, William W., assignor.)						
Tiefel, Charles G. and L., Rochester, N. Y. Elevator	333,701	Jan. 5	279	76, 77	34	53
Tiefel, Leonard. (See Tiefel, Charles G. and L.)						
Tiemann & Co., George. (See Stohlmann, Frederick A., assignor.)						
Tier, William H., Astoria, N. Y. Brake for baby-carriages	345,457	July 13	919	231	36	170
Tierney, John P., Oakland, Cal. Transom-ventilator	343,781	June 15	1474	369	35	1287
Tierney, Patrick D. (See Young, Leonard, assignor.)						
Tierra Seca Mining Company. (See Card, William L., assignor.)						
Tiers, Alexander H., *et al.* (See Pendleton, John H., assignor.)						
Tiers, Alexander H., *et al.* (See Pendleton and Tiers, assignors.)						
Tiers, Alexander H., *et al.* (See Weber, Theodor R. A., assignor.)						
Tiers, Cornelius, *et al.* (See Pendleton, John H., assignor.)						
Tiers, Cornelius. (See Pendleton and Tiers.)						
Tiers, Cornelius, *et al.* (See Weber, Theodor, R. A., assignor.)						
Tietz, Godfried, A. J., assignor to Phoenix Glass Company, Philipsburg, Pa. Manufacture of decorated hollow glassware	345,264	July 6	644	163	36	117
Tietze, Gustav, San Francisco, Cal. Camp-chair	337,715	Mar. 9	1121	289	34	1133
Tiffany & Co. (See Braillard, Francis F., assignor.)						
Tiffany, Lansing C., Jacksonville, Ill. Veterinary table	350,646	Oct. 12	780	213	37	149
Tiffany Pressed Brick Company. (See Alsip, William, assignor.)						
Tigner, James A., Rome, Ga. Combined truss and abdominal support	346,244	July 27	2063	529	36	396
Tigner, James A., Gordon, La. Plow-point	347,074	Aug. 10	833	222	36	626
Tilden, Burt E., Youngstown, Ohio. Roller-skate	341,186	May 4	278	85	35	559
Tilden, James A., Hyde Park, Mass. Circuit-testing chronograph	342,481	May 25	2106	556, 557	35	921
Tilden, James A., Hyde Park, Mass., assignor, by mesne assignments, to Hersey Meter Company, Portland, Me. Water-meter with revolving pistons. (Reissue)	10,778	Nov. 2	551	145, 146, 147	37	561
Tilden, James A., Hyde Park, assignor of one-half to Hersey Brothers, South Boston, Mass. Apparatus for steering ships	352,374	Nov. 9	929	249	37	639
Tilden, James A., Hyde Park, Mass., assignor to Hersey Meter Company, Portland, Me. Water-meter with revolving pistons	353,833	Dec. 7	253	67, 68	37	1053
Tilghman, Benjamin C., Philadelphia, Pa. Drawing metal rods	345,816	July 20	1464	378	36	275
Tillett, Charles W., Fairview, Ohio. Neck-yoke	344,324	June 22	2080	532	35	1406
Tillison, Hosea R., assignor to S. A. Woods Machine Company, Boston, Mass. Reamer	338,318	Mar. 23	1941	511	34	1299
Tillison, Hosea R., assignor to S. A. Woods Machine Company, Boston, Mass. Reamer	349,766	Sept. 28	1697	438	36	1385
Tillitson, Augustine A. (See Bairstow and Keavy, assignor.)						
Tillitson, Augustine A. (See Keavy, Thomas E., assignor.)						
Tillman, William A., Grape Vine, Tex. Fence	336,499	Feb. 16	2019	530	34	813
Tillmeyer, Charles H. (See Bolton and Tillmeyer.)						
Tillotson & Co., L. G. (See Waldo, Leonard, assignor.)						
Tillotson, Theodore, Chicago, Ill. Garment-supporter	343,408	June 8	948	237	35	1187
Tillou, William H., Le Roy, N. Y. Hame-fastener	342,547	May 25	2243	584	35	938
Tillson, Isaiah, South Abington, Mass. Car-coupling	344,420	June 29	2354	606	35	1463
Tilt, Charles L., South Bend, Ind. Game-table	351,668	Oct. 26	2273	588	37	435
Tilton, Curtis. (See Morell and Tilton.)						
Tilton, James E., Ashland, assignor to himself and W. H. Huntington, Boston, Mass. Rubber boot	337,892	Mar. 16	1356	352	34	1182
Tilton, John, San Francisco, Cal. Faucet for shipping and service cans	336,174	Feb. 16	1560	411	34	731
Tilton, Joseph D. S. W. P., Yakima, Wash. Ter. Fence-post base	354,950	Dec. 28	1893	499	37	1340
Timby, Theodore R., Washington, D. C. Gun-carriage for revolving turrets	344,758	June 29	2799	725	35	1545
Timermann, William, New York, N. Y. Wash-line and clamp	351,224	Oct. 19	1599	420	37	306

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Dr'g.	Official Gazette. Vol.	Page.
Timken, Henry, St. Louis, Mo. Wheel	341,523	May 11	765	206	35	655
Timken, Henry, St. Louis, Mo. Spring-shackle	341,781	May 11	1117	296	35	724
Timm, Henry, *et al.* (See Powers, Titus, assignor.)						
Timmins, William, and C. I. Humphreys, assignors to W. T. Andrews, Boston, Mass. Guide-collar for screw-machines	346,391	July 27	2264	580	36	433
Timmis, Illius A., and G. Forbes, London, county of Middlesex, England. Electro-magnetic car-brake	347,075	Aug. 10	835	222	36	627
Timmons, John, Newark, N. J. Insertible saw-tooth	341,187	May 4	298	85	35	560
Timmons, Lottie W., Syracuse, N. Y. Buckle for supporters	339,031	Mar. 30	2964	784	34	1485
Timms, James, assignor of one-half t B. F. Rees, Columbus, Ohio. Dust-guard for axle-boxes	338,804	Mar. 30	2631	693	34	1426
Timms, James, assignor of one-half to B. F. Rees, Columbus, Ohio. Car-axle box	345,458	July 13	920	231	36	171
Timms, James, assignor of one-half to B. F. Rees, Columbus, Ohio. Car-axle box	350,852	Oct. 19	1067	285	37	201
Tindell, Henry, Harrison, N. J. Door-saddle	335,854	Feb. 9	1083	286	34	643
Tinsley, Charles L., and W. P. Rose, Baltimore, Md. Breeching attachment for thills	335,401	Feb. 2	439	113	34	519
Tintle, George, Newark, N. J. Resawing-machine	336,500	Feb. 16	2020	530	34	813
Tippett, Robert G., and D. Madlem, Reading, Pa. Door-knob	346,566	Aug. 3	145	40	36	488
Tipton, Albert W., Topeka, Kans. Coal-box	344,759	June 29	2860	725	35	1545
Tipton, Nelson F., Baldwin City, Kans. Egg-tray	334,826	Jan. 26	1869	498	34	368
Tipton, Phylander S., Anson, Tex. Gate	349,187	Sept. 14	893	229	36	1215
Tirrell, Jacob P. (See Taylor and Tirrell.)						
Tirrell, Jacob P., Chelsea, assignor to A. B. Taylor and G. F. Pinkham, Wollaston, Mass. Loom-shuttle	351,225	Oct. 19	1600	420	37	306
Tisdale, Charles D., Boston, Mass., assignor, by mesne assignments, to Standard Electric Railway Signal Company, New York, N. Y. Track-instrument	341,291	May 4	459	124	35	588
Tisdel, Abner G., assignor of one-half to E. A. Whittlesey, Brooklyn, N. Y. Photographic camera	348,301	Aug. 31	2604	701	36	978
Titcomb, Winslow, Waterville, Me. Preventing boiler explosions	339,598	Apr. 6	736	181	35	129
Titcomb, Winslow, Waterville, Me. Water-diaphragm for steam-boilers	339,599	Apr. 6	738	181	35	129
Titus, Hazen, Toledo, Ohio. Water-motor	338,116	Mar. 16	1674	435	34	1241
Titus, Luther H., Los Angeles, Cal. Fruit-gathering shears	354,363	Dec. 14	1050	281	37	1206
Titus, Odeon H., Wilmington, Del. Flour-bolt	342,146	May 18	1613	431, 432	35	824
Tixier, John, San Francisco, Cal. Stop-watch	333,792	Jan. 5	406	110	34	77
Tixier, John, San Francisco, Cal. Stop-watch (Reissue)	10,756	Aug. 17	1814	483	36	815
Toaspern, Hermann, Brooklyn, N. Y. Upright-piano case	352,289	Nov. 9	809	216	37	614
Tobey, Henry A., Lima, Ohio. Water-heater	353,097	Nov. 23	1911	513	37	840
Tobey, William L., Boston, Mass. Steam-boiler	338,805	Mar. 30	2631	693	34	1426
Tobias, Cyrus, Freeport, Ill. Coffee-mill	345,742	July 20	1360	354	36	257
Tobias, Cyrus, Freeport, and E. W. Shoesmith, Lena, assignors to A. Baumgarten and C. Tobias, Freeport, Ill. Cork-extractor	334,061	Jan. 12	785	215	34	154
Tobin, John A., Washington, D. C. Compound steel armor and constructing the same	351,297	Oct. 19	1697	445	37	323
Tobin, William H. (See Greer, John W., assignor.)						
Todd, Albert M., Nottawa, Mich. Apparatus for treating essential oils, &c	337,716	Mar. 9	1122	289, 290	34	1133
Todd, Albert M., Nottawa, Mich. Obtaining menthol. (Reissue)	10,705	Mar. 30	3092	718	34	1506
Todd, Frank P., *et al.* (See Littlefield, Charles W., assignor.)						
Todd, Herman A., Evanston, Wyo. Ter. Oil-cup	354,845	Dec. 21	1734	459	37	1338
Todt, A. Henry, Lapeer, Mich. Sleigh-runner	346,874	Aug. 3	533	145	36	564
Toense, Carl G., Cleveland, Ohio. Piston water-meter	354,613	Dec. 21	1417	375, 376	37	1277
Toffler, Simon, New York, N. Y. Basket	333,793	Jan. 5	408	111	34	77
Toft, Joseph E., Exira, Iowa. Sash-holder	350,511	Oct. 12	580	161	37	113
Toggenburger, Friedrich, Chicago, Ill. Multicharge sporting-rifle	350,328	Oct. 5	306	87	37	62
Tolbert, James, *et al.* (See Miller, Richard W., assignor.)						
Tolhurst, William H., Troy, assignor to Schaghticoke Powder Company, Schaghticoke, N. Y. Cutter-oscillating mechanism for powder-shaping machines	341,113	May 4	193	60	35	540
Toliver, George E., H. W. Poindexter, and E. Schopf, Newport, Mo. Rotary engine	344,019	June 22	1763	460	35	1353
Toliver, Gillum T. (See Valiant, Placito F., assignor.)						
Tolley, Henry, Weaman street, Birmingham, county of Warwick, England. Breech-loading fire-arm	354,751	Dec. 21	1615	428	37	1314
Tollner, Charles, Pulaski, N. Y. Circular-sawing machine	344,066	June 22	1855	477	35	1366
Tollner, Hugo, Brooklyn, N. Y. Lock	345,337	July 13	748	188	36	141
Tolman, A. K., *et al.* (See Howe, Patrick, assignor.)						
Tolman, Gayger D., Shawano, Wis. Book pull and label	342,767	May 25	2519	672	35	997
Tolman, Henry E., Shelburne, Mass. Roofing or staging bracket	351,008	Oct. 19	1312	344	37	253
Tolman, James P., West Newton, Mass. Machine for making cordage, &c	340,835	Apr. 27	2475	651, 652	35	462
Tolson, George and J. E., Dewsbury, county of York, England. Apparatus for separating mixed fibers	346,245	July 27	2064	530	36	396
Tolson, John E. (See Tolson, George and J. E.)						
Tomkins, Alfred S., Mark Lane, London, England. Combined tent and wagon	355,231	Dec. 28	2298	605, 606	37	1457
Tomlin, William H. T., Swedesborough, N. J. Washing-machine	351,298	Oct. 19	1699	445	37	323
Tomlinson, Albert R., Severy, Kans. Plow	339,080	Mar. 30	3029	800	34	1495
Tomlinson, Edwin R., assignor to Eaton, Cole & Burnham Company, Bridgeport, Conn. Jet and spray nozzle	336,602	Feb. 23	2166	566	34	845
Tomlinson, James, assignor of one-half to G. Maitland, R. A. Parker, and C. F. Burton, Detroit, Mich. Cylindrical wooden package	336,963	Mar. 2	106	29	34	945
Tomlinson, Joseph, Ely, Iowa. Bridge	349,468	Sept. 21	1279	332, 333	36	1299
Tomney, James, New York, N. Y. Burglar-alarm	343,868	June 15	1580	402	35	1308
Tomney, James, New York, N. Y. Burglar-alarm	343,869	June 15	1581	402	35	1308
Tompkins, Daniel A., and F. Oliver, Charlotte, N. C. Oil-seed-meal-heating machinery	336,175	Feb. 16	1561	411	34	731
Tompkins, Frank, New York, N. Y. Car brake and starter. (Reissue)	10,733	June 8	1154	291	35	1223
Tompkins, John D., Nassau, assignor of one-half to J. Arkell, Canajoharie, and C. Weberwax, Albany, N. Y. Treating vegetable substances for making paper-stock	340,640	Apr. 27	2208	581	35	415
Tompkins, Myron, Attica, Ohio. Fifth-wheel	337,460	Mar. 9	810	205	34	1078
Tompkins, Samuel D. (See Williams, Tompkins, and Matlock.)						
Tompkins, Samuel E., assignor to Rubber and Celluloid Harness Trimming Company, Newark, N. J. Saddle-tree	354,951	Dec. 28	1894	499	37	1380
Toms, George W., Newark, N. J. Button	333,794	Jan. 5	409	111	34	77
Toner, Daniel, *et al.* (See Wheeler, Clark W., assignor.)						
Toney, Squire, Viroqua, Wis. Washing and bleaching machine	340,900	Apr. 27	2562	674, 675	35	477

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Tonks, Joseph, Malden, Mass. Breech-loading fire-arm	333,795	Jan. 5	410	111	34	77
Tonner, A. Clarke, Canton, Ohio. Burglar-alarm	338,319	Mar. 23	1942	511	34	1299
Tonner, A. Clarke, assignor to Canton Hoe and Tool Company, Canton, Ohio. Hoe	343,551	June 8	1140	288	35	1221
Toof, Edwin J., New Haven, Conn. Needle-case	337,893	Mar. 16	1357	352	34	1183
Toof, John H., Concord, N. H. Starching-machine	355,232	Dec. 28	2299	606	37	1458
Tooker Fire Alarm Improvement Company. (See Flanders, Brown S., assignor.)						
Toole, John T., East Saginaw, Mich. Steam-actuated valve	335,855	Feb. 9	1083	286	34	643
Toomey, Samuel, Canal Dover, Ohio. Axle for vehicles	346,001	July 20	1723	444	36	322
Toomey, Samuel, Canal Dover, Ohio. Spoke for vehicle-wheels	350,572	Oct. 12	666	182	37	128
Toope, Charles, London, England. Fire-proof ceiling	334,996	Jan. 26	2083	556	34	406
Toope, Charles, London, county of Middlesex, England. Gas or oil burning stove	340,388	Apr. 20	1853	476	35	345
Tope, Davis, Geneva, Nebr. Hair-tonic	352,938	Nov. 23	1675	.....	37	796
Topliff, D'Alton, Franklin, Ill. Buggy-iron	349,128	Sept. 14	816	207	36	1200
Toppan, Charles, Salem, Mass. Bleaching compound	350,218	Oct. 5	174	.....	37	36
Toppan, Charles, Salem, assignor to Canton Manufacturing Company, Boston, Mass. Scouring wool	338,806	Mar. 30	2633	.....	34	1426
Topping, Alfred S., assignor of one-half to A. Ries, Metamora, Ohio. Fire-wood drag-saw	346,179	July 27	1962	506	36	376
Torkelson, Reinhard T. (See Johnson, Torkelson, and Fyrberg.)						
Torkelson, Reinhard T., assignor to I. Johnson, Worcester, Mass. Revolver	339,346	Apr. 6	334	83, 84	35	63
Torkelson, Reinhard T., assignor to I. Johnson, Worcester, Mass. Revolver	339,347	Apr. 6	336	84	35	63
Tornberg, Fredrik W., Stockholm, Sweden. Revolving tooth-brush	347,900	Aug. 24	2021	535	36	862
Toronto Wire Mat Company. (See Windt, Henry T., assignor.)						
Torrance, John F., Montreal, Quebec, Canada. Preserving fruit	340,389	Apr. 20	1855	476	35	345
Torre, Frank D., Baltimore, Md. Stopper-fastener	340,257	Apr. 20	1671	432	35	310
Torre, Frank D., Baltimore, Md. Navigating fogy weather	350,608	Oct. 12	717	195	37	138
Torre, Frank D., Baltimore, Md. Method of disclosing obstacles to navigation	350,817	Oct. 12	1016	272	37	192
Torrey, Augustus, Detroit, Mich., and D. J. Casey, Cylon, Wis. Passenger-recorder	349,767	Sept. 28	1697	438	36	1385
Torrey, Francis B., Bath, Me. Journal and bearing	335,047	Jan. 26	2163	575	34	420
Torrey, Joseph R. (See Wilson, John A., assignor.)						
Torrey, Joseph R., assignor to J. R. Torrey Razor Company, Worcester, Mass. Razor-guard	349,287	Sept. 14	1019	260	36	1240
Torrey Razor Company, J. R. (See Torrey, Joseph R., assignor.)						
Torrey, William A., Montclair, N. J. Vulcanized fabric from gums and ramie and similar fibers	354,993	Dec. 28	1947	.....	37	1390
Torsch, Edward L., and J. R. Lee, Baltimore, Md. Badge	337,717	Mar. 9	1126	290	34	1134
Toske, Thomas, Richmond, Ind. Pocket-cigarette-machine	346,076	July 20	1820	470	36	340
Tosso, Hippolyte, New Orleans, La. Umbrella-support	351,669	Oct. 26	2274	589	37	435
Tostenson, Christian, assignor to Ames Iron Works, Oswego, N. Y. Thrashing-machine	351,670	Oct. 26	2275	589	37	435
Totman, Edsell, Hinsdale, Ill. Construction of houses	333,903	Jan. 5	550	149	34	103
Totman, Edsell, Hinsdale, Ill. Constructing frame houses. (Reissue)	10,678	Jan. 12	1992	349	34	247
Totman, Edsell, Hinsdale, Ill. Sandpapering machine	348,177	Aug. 24	2422	649	36	936
Totten, Cleophas, Leesville, Ohio. Nut lock	354,587	Dec. 21	1364	362	37	1268
Touchette, Alfred, Manistee, Mich. Knot-saw guard	344,292	June 22	2175	557	35	1423
Toulmin, Morton, Washington, D. C. Railway-gate	352,590	Nov. 16	1201	326	37	698
Toulouse, Bernard, and J. Delorieux, San Francisco, Cal. Awning-frame	350,902	Oct. 12	1136	302	37	215
Tourangeau, Joseph G., Quebec, Canada. Dough-kneading machine	342,147	May 18	1614	432	35	824
Tourgee, Albion W., Mayville, N. Y. Breast-collar for horses	343,210	June 8	633	157	35	1131
Tourgee, Albion W., assignor to S. E. Kilbourne, Mayville, N. Y. Harness	345,459	July 13	920	231	36	171
Tourgee, Albion W., assignor to L. D. Jennings, S. E. Kilbourn, Mayville, N. Y., and A. C. Kilbourn, Erie, Pa. Harness	333,978	Jan. 5	659	180	34	124
Tourgee, Albion W., and L. D. Jennings, Mayville, N. Y. Harness	347,210	Aug. 10	1011	269	36	659
Tourgee, Albion W., and L. D. Jennings, assignors to said Jennings, S. E. Kilbourn, Mayville, N. Y., and A. C. Kilbourn, Erie, Pa. Vehicle pole and shaft	333,979	Jan. 5	661	181	34	124
Tourgee, Albion W., and L. D. Jennings, assignors to said Jennings, S. E. Kilbourn, Mayville, N. Y., and A. C. Kilbourn, Erie, Pa. Vehicle running-gear	336,534	Feb. 16	2069	544	34	822
Tourtellotte, George M. (See Morey, De Witt C., Jr., assignor.)						
Tourze, Jean B., Fils, Tarbes, France. Grinding-mill or decorticator	333,980	Jan. 5	662	181	34	124
Towberman, Adam, Sutherland, Iowa. Post and pile driver	347,211	Aug. 10	1014	270	36	660
Tower, Abner J., Boston, Mass. Cloth laying and cutting machine	354,952	Dec. 28	1894	499 / 500	37	1380
Tower, Caleb E., assignor to Economist Plow Company, South Bend, Ind. Sulky-plow	354,449	Dec. 14	1155	309	37	1224
Tower, Caleb E., assignor to Economic Plow Company, South Bend, Ind. Plow	354,752	Dec. 21	1618	428	37	1315
Tower, Daniel L., Brooklyn, N. Y. Extractor for revolvers	355,233	Dec. 28	2300	606	37	1458
Tower, Harvey R., Holyoke, Mass. Device for dressing valve-seats	352,591	Nov. 16	1204	327	37	698
Tower, John J., Brooklyn, N. Y. Pipe-wrench	337,894	Mar. 16	1358	353	34	1183
Towers & Sullivan Manufacturing Company. (See Word, Arthur M., assignor.)						
Towle, Rossetter L., Gunnison, Colo. Safety-wheel for roller-skates	336,603	Feb. 23	2167	566	34	845
Town, Francis G., Philadelphia, Pa. Waterproof garment	344,606	June 29	2603	674	35	1510
Towne, Alban N., San Francisco, Cal. Lock and seal for trunks	348,358	Aug. 31	2669	719	36	991
Towne, Alban N., San Francisco, Cal. Car-coupling	353,518	Nov. 30	2517	671	37	962
Towne, Alban N., San Francisco, Cal. Car-coupling	353,519	Nov. 30	2518	672	37	962
Towne, Henry R., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Pigeon-hole or post-office call-box	343,614	June 15	1241	311 / 312	35	1246
Towend, Thomas. (See Leigh and Towend.)						
Towner, James F., Aurora, Ill. Gate	335,254	Feb. 2	239	63	34	483
Towner, William M., Stamford, Conn. Crucible-tongs	346,136	July 27	1900	491	36	364
Townley, Charles E., South Lansing, N. Y. Corn-planter	335,255	Feb. 2	239	63	34	483
Townley, Charles H., *et al.* (See Carruthers, William H., assignor.)						
Towns, Albert O., Boston, and F. F. Raymond, 2d, Newton, Mass.; said Towns assignor to said Raymond. Nail making and distributing machine	346,137	July 27	1901	492 / 493	36	364
Towns, Walter F., Boston, Mass. Device for beating and mixing egg-lemonade	347,398	Aug. 17	1288	343	36	718
Townsend, Asbury N., Lucas, Iowa. Rock-drill machine	344,421	June 29	2355	606	35	1463
Townsend, Charles C., *et al.* (See Berchtold, Rudolf, assignor.)						
Townsend, Charles W. (See McDonald and Townsend.)						
Townsend, Edward P., *et al.* (See Berchtold, Rudolf, assignor.)						
Townsend, Henry E. (See Lord, George W., assignor.)						
Townsend, Isaac T., Coventry, county of Warwick, England. Racquet-bat	344,422	June 29	2356	606	35	1464
Townsend, Louis, Evansville, Ind., assignor to J. L. Bay and W. B. Worthen, Little Rock, Ark. Telephone receiver	348,429	Aug. 31	2778	746	36	1012
Townsend, Louis, Evansville, Ind., assignor of one-half to J. L. Bay and W. B. Worthen, Little Rock, Ark. Telephone-transmitter	348,430	Aug. 31	2779	746 / 747	36	1012
Townsend, Louis, Evansville, Ind., assignor of one-half to J. L. Bay and W. B. Worthen, Little Rock, Ark. Call-bell switch	350,024	Sept. 28	2044	527	36	1452

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Townsend, Lucius R. (See Kibler, John B., assignor.)						
Townsend, William P., *et al.* (See Berchtold, Rudolf, assignor.)						
Tozer, James H. and W., London, England. Part of the permanent way of railways	349,913	Sept. 28	1888	488	36	1424
Tozer, William. (See Tozer, James H. and W.)						
Trabue Arms Company. (See Trabue, William, assignor.) (Reissue)						
Trabue, William, assignor to Trabue Arms Company, Louisville, Ky. Magazine fire-arm. (Reissue)	10,690	Feb. 16	2078	546	34	824
Tracey, James D., Canton, N. Y. Device for gaging and binding tablets	354,953	Dec. 28	1896	500	37	1380
Tracy, Christopher C., Brooklyn, assignor to Colwell Lead Company, New York, N. Y. Machine for making lead pipe	340,465	Apr. 20	1954	502	35	363
Tracy, E. C., *et al.* (See Pfingst, Louis, assignor.)						
Tracy, George S. (See Galt and Tracy.)						
Tracy, John A., Weston, W. Va. Billiard-cue	338,888	Mar. 30	2756	725	34	1448
Tracy, Patrick J., assignor of one-half to W. T. Lewis, Racine, Wis. Filter	348,869	Sept. 7	443	118	36	1129
Tracy, William P., Grand Rapids, Mich. Caster	347,261	Aug. 10	1083	289	36	672
Tracy, William P., Grand Rapids, Mich. Thill-coupling	354,753	Dec. 21	1649	428	37	1315
Tracy, William P., assignor of one-half to R. M. Luton, Grand Rapids, Mich. Barrel-making machine	348,481	Aug. 31	2853	768	36	1025
Trafton, Mathew E., Minneapolis, Minn. Scaffold-bracket	353,768	Dec. 7	158	44	37	1036
Tragardh, Rudolph, Chicago, Ill. Dial for time-pieces	344,423	June 29	2357	607	35	1464
Trammell, William A. (See Williams and Trammell.)						
Trampedach, Alexander. (See Seyberlich and Trampedach.)						
Tranchell, Claes E., Willmar, Minn. Game	351,137	Oct. 19	1483	388	37	284
Transit Apparatus Company. (See Birgé, Isidore, assignor.)						
Transit Apparatus Company. (See North, Selden G., assignor.)						
Transom, George E. (See Perkins and Transom.)						
Trask, Clarence S. (See Sargent and Trask.)						
Trask, Clarence S., Lowell, Mass. Spindle-step	340,018	Apr. 13	1318	329	35	241
Trask, Samuel I., Guilford, N. Y. Fire-escape	352,211	Nov. 9	719	193	37	598
Traub, Frederick, Philadelphia, Pa. Rocking and reclining chair	350,329	Oct. 5	308	88	37	63
Traut, Justus A., New Britain, Conn. Plane	336,674	Feb. 23	2280	596	34	865
Traut, Justus A., assignor to Stanley Rule and Level Company, New Britain, Conn. Face-plate for marking-gages	334,308	Jan. 12	1163	311	34	224
Traut, Justus A., assignor to Stanley Rule and Level Company, New Britain, Conn. Beading-tool	335,856	Feb. 9	1085	286	34	643
Traut, Justus A., assignor to Stanley Rule and Level Company, New Britain, Conn. Bench-plane	338,570	Mar. 23	2282	598	34	1358
Traut, Justus A., assignor to Stanley Rule and Level Company, New Britain, Conn. Plane	342,235	May 18	1726	458	35	845
Traut, Justus A., assignor to Stanley Rule and Level Company, New Britain, Conn. Level attachment for boring-tools	352,721	Nov. 16	1387	375	37	733
Traver, Alva H., Jackson, Mich. Corset	336,768	Feb. 23	2396	628	34	889
Traver, Harrison. (See Weeks and Traver.)						
Travis, Charles L., Minneapolis, Minn. Wash-board	335,977	Feb. 9	1254	333	34	672
Travis, Charles L., Minneapolis, Minn. Insulator	336,828	Feb. 23	2476	651	34	903
Travis, Charles L., Minneapolis, Minn. Carpet-sweeping machine	337,288	Mar. 2	546	144	34	1027
Travis, Charles L., Minneapolis, Minn. Stenciling-machine	353,520	Nov. 30	2519	672	37	962
Travis, David W., Athens, N. Y. Clothes-line reel	337,799	Mar. 9	1223	318	34	1152
Travis, Jerome, North Adams, Mich. Machine for cleaning blackboard-erasers	333,387	Nov. 30	2320	620	37	924
Travis, John J. (See Brower and Travis.)						
Travis & Murray Manufacturing Company. (See Churchill, Bartholomew, assignor.)						
Traylor, Robert W., Richmond, Va. Journal-box	334,490	Jan. 19	1420	382	34	277
Treacy, James A., Chicago, Ill. Forming a perfect combustion and preventing the formation of smoke	339,600	Apr. 6	739	181	35	130
Treadwell, William B., assignor to himself and J. Aspinwall, New York, N. Y. Honey-extractor	335,857	Feb. 9	1086	287	34	643
Treat, Bryant A., Wallingford, Conn. Vehicle-spring	349,960	Sept. 28	1957	505	36	1436
Treat, James E., Boston, Mass. Mechanical musical instrument	335,549	Feb. 2	637	167, 168	34	554
Treat, James E., Boston, Mass. Parallel drop-bracket for gas, &c.	338,117	Mar. 16	1675	435	34	1241
Treat, James E., Boston, Mass. Shoe-gore	351,817	Nov. 2	123	34	37	481
Trebentscheck, Johann, Donanitz, Austria-Hungary. Pencil-holder	349,914	Sept. 28	1890	488	36	1424
Trees, Joseph T., assignor of one-half to T. D. Wood, McKeesport, Pa. Anvil for steam-hammers	352,897	Nov. 16	1614	434	37	776
Tregoning, John, Brooklyn, N. Y., assignor to Schuyler Electric Light Company of New York. Electric-arc lamp	336,176	Feb. 16	1562	411	34	731
Tremain, Charles W., *et al.* (See Wood, Joseph B., assignor.)						
Tremain, James K., Milwaukee, Wis. Revolving railway-signal	351,347	Oct. 19	1762	463	37	335
Tremble, Theophilus, Bay City, Mich. Clothes-drier	353,332	Nov. 30	2241	600	37	910
Trempe, Alexis J., Ansonia, Conn. Wire-unwinding reel	352,962	Nov. 23	1707	458	37	801
Trenkamp, Henry. (See Schneider and Trenkamp.)						
Trenkamp, Henry. (See Schneider, Trenkamp, and Flammang.)						
Trenton Iron Company. (See Hewitt, William, assignor.)						
Trenton Iron Company. (See Withington, James, assignor.)						
Trescott, Charles B., New York, N. Y. Machine for polishing silk and other thread	334,309	Jan. 12	1164	312	34	224
Tribby, George W. (See Hansard and Tribby.)						
Tribe, James, Providence, R. I. Locomotive and car-brake	343,680	June 15	1324	331, 332	35	1261
Tribou, Samuel C., assignor to Rockford Boot and Shoe Manufacturing Company, Rockford, Ill. Shoe	334,398	Jan. 12	1279	345	34	244
Tricycle Manufacturing Company. (See Bean and Grant, assignors.)						
Tricycle Manufacturing Company. (See Grant, Arthur W., assignor.)						
Trigge, John, Mount Vernon, N. Y. Drop-light and chandelier	342,982	June 1	287	75	35	1058
Trimble, John S., Shelby, Ohio. Sulky-plow	352,281	Nov. 9	810	217	37	614
Trimmer, David S., Springfield, Ohio. Producing and swaging bullets	340,171	Apr. 20	1535	388	35	286
Trimmer, David S., Springfield, Ohio. Heating attachment for stoves	352,635	Nov. 16	1267	341	37	709
Trimnell, Ernest C. (See Blake and Trimnell.)						
Trinkle, Christopher C., M. Petitt, and E. E. Coats, Veedersburg, Ind. Plow attachment	344,795	June 29	2851	738	35	1556
Tripp, Henry C., Auburn, N. Y. Folding screen	354,450	Dec. 14	1157	309, 310	37	1225
Tripp, Solomon, Grand Rapids, Mich. Hay-tedder	345,338	July 13	750	188, 189	36	141
Tripp, Thomas, East Stoughton, Mass. Packing for pistons	352,166	Nov. 9	661	176	37	587

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Pages.
Tripp, William J., New York, N. Y. Railway time-signal	351,138	Oct. 19	1484	389	37	284
Trippe, Sylvanus L., Denver, Colo. Composition for electrodes for secondary batteries	344,882	July 6	128	31, 32	36	23
Trippe, Sylvanus L., Denver, Colo. Electrode for electric batteries	348,482	Aug. 31	2854	768	36	1026
Tritch, William, Corunna, Ind. Gate	353,550	Nov. 30	2568	685	37	971
Trix, John. (See Murdock, Horace B., assignor.)						
Trobridge, Edwin J., and R. H. Conery, Irwin, Iowa. Chimney-top	343,652	June 15	1285	323	35	1254
Trognitz, Herman W. (See Jones and Trognitz.)						
Trognitz, Herman W., Williamsport, Pa. Combination-lock	353,238	Nov. 23	2106	564	37	879
Troller, Albert, assignor to Rockford Watch Company, Rockford, Ill. Stem-setting mechanism for watches	347,450	Aug. 17	1368	364	36	732
Troller, Albert, assignor to Rockford Watch Company, Rockford, Ill. Watch-plate	350,903	Oct. 12	1137	302	37	215
Troller, Alfred, assignor to Rockford Watch Company, Rockford, Ill. Stem winding and setting watch	350,904	Oct. 12	1138	303	37	215
Tromblay, Edward, Lowell, Mass. Self-feeder for carding-machines, &c	346,418	July 27	2303	593, 594	36	440
Trombly, Alexander. (See Decker, Cornelius, assignor.)						
Trott, Herbert, Battersea, county of Surrey, England. Valve	350,219	Oct. 5	175	51	37	36
Trout, Jacob S., Landisville, Pa. Barn-door fastener	347,748	Aug. 17	1798	479	36	813
Trout, James A. (See Trout, Lewis A. and J. A.)						
Trout, Lewis A. and J. A., Lamar, Mo. Churn	346,518	Aug. 3	90	24	36	477
Trout, Silas E., assignor to H. S. Wendell, Philadelphia, Pa. Manufacturing wall-paper	335,725	Feb. 9	900	.....	34	608
Troutman, J. M., *et al.* (See Furey, Cyrus E., assignor.)						
Trow, Charles W., assignor to Wakefield Rattan Company, Wakefield, Mass. Shade-holder for carriages	344,883	July 6	129	32	36	23
Trow, John F., New York, N. Y. Index for books	341,782	May 11	1118	296	35	724
Trowbridge, Charles E., assignor to Whitinsville Spinning Ring Company, Whitinsville, Mass. Holder for spinning-rings	341,076	May 4	140	42	35	531
Trowbridge, John H. (See Parsil and Trowbridge.)						
Troxell, Edwin C. J., Allentown, Pa. Trace-tug	343,615	June 15	1242	312	35	1246
Trubel, George, Macomb, Ill. Oil-can	349,768	Sept. 28	1700	438	36	1385
Trude, Arthur M., and C. H. Cooley, Hartford, Conn. Signal	354,816	Dec. 21	1699	449, 450	37	1331
Trueb, Jacob, New York, N. Y. Thermometric regulator for heating apparatus	354,522	Dec. 14	1264	338, 339	37	1243
Trueblood, William E., Maryville, Mo. Siding-gage	351,722	Oct. 26	2342	610	37	448
Truesdale, Frank. (See Britton and Truesdale.)						
Truesdell, Julius A., St. Paul, Minn. Addressing-machine	343,091	June 1	451	115	35	1088
Truesdell, Lewis W., assignor of one-half to E. H. Gere, Owego, N. Y. Fluid-pressure regulator	337,461	Mar. 9	812	205	34	1078
Trull, Larkin T., *et al.* (See Logan, Thomas H., assignor.)						
Trullinger, James, Silverton, Oreg. Castrating-instrument	350,088	Sept. 28	2134	552	36	1469
Trullinger, James, Silverton, Oreg. Artery-ligator	354,029	Dec. 7	551	149	37	1107
Trullinger, John C., and U. B. Scott, Astoria, Oreg. Bucket for steamboat paddle-wheels	342,768	May 25	2519	673	35	997
Trum, Emanuel J., Brooklyn, N. Y. Document-envelope	349,188	Sept. 14	894	230	36	1215
Trump, Charles N. (See Boyden, Clark, and Trump.)						
Trump, Charles N. (See Frederick and Trump.)						
Trump, Edward N., Syracuse, N. Y. Pneumatic hammer	348,870	Sept. 7	445	119	36	1130
Trump, John G., Richville, Mich. Cultivator	342,401	May 25	1993	527	35	900
Trunzer, John, Pittsburg, Pa. Heater for fire-places, &c	349,324	Sept. 21	1060	272	36	1257
Truslow, Charles W., New York, N. Y. Railway-gate	341,077	May 4	141	42	35	531
Trussell, Joshua W., Rockland, Me. Head-rest	344,796	June 29	2853	739	35	1557
Truxel, Jacob W. (See Wertz, Daniel, assignor.)						
Truxler, Henri, Lure, France. Machine for combing fibrous material	340,172	Apr. 20	1536	389, 390	35	286
Tschantz, Abraham J., Orrville, Ohio. Disk-harrow	344,293	June 22	2176	558	35	1423
Tschira, Edward, Jr., Cincinnati, Ohio. Fly-trap	345,817	July 20	1466	379	36	276
Tuck, Josiah H. L., San Francisco, Cal. Leak-stopping mattress	353,718	Dec. 7	97	26	37	1024
Tuck, William L., Bay View, Wis. Rotary engine	339,827	Apr. 13	1056	262	35	193
Tucke, Edward P., Whitaker's, N. C. Device for adjusting blind-slats	349,416	Sept. 21	1203	311, 312	36	1284
Tucker, Albert E., *et al.* (See Haskin, Uri, assignor.)						
Tucker, Albert F. (See Carpenter and Tucker.)						
Tucker & Baxter. (See Markland, William H., assignor.)						
Tucker & Baxter. (See Tucker, Charles A., assignor.)						
Tucker, Charles A. (See Schuchardt, Emil, assignor.)						
Tucker, Charles A., Islip, assignor to Tucker & Baxter, Brooklyn, N. Y. Annunciator	350,449	Oct. 5	477	134	37	92
Tucker, Charles A., Islip, assignor to Tucker & Baxter, Brooklyn, N. Y. Case for medicine-bottles	350,450	Oct. 5	479	135	37	92
Tucker, Charles A., Islip, N. Y., assignor to C. R. Hedden, Newark, N. J., and Tucker & Baxter, Brooklyn, N. Y. Appliance for closing openings in buildings automatically	350,451	Oct. 5	481	135	37	92
Tucker, Charles A., Islip, and W. H. Markland, Brooklyn, N. Y., assignors, by mesne assignments, to said Tucker. Striker for electric bells	353,273	Nov. 23	2158	578	37	888
Tucker, Charles A., Islip, and O. H. Huebel, Brooklyn, N. Y., assignors, by mesne assignments, to said Tucker. Electric bell	353,274	Nov. 23	2159	578	37	889
Tucker, Charles E., Salida, Colo. Lamp-burner	343,972	June 15	1717	439	35	1335
Tucker, George D., assignor to Pratt & Whitney Company, Hartford, Conn. Screw-threading tool	336,024	Feb. 9	1317	349	34	682
Tucker, Henry. (See Meyer, Thomas, assignor.)						
Tucker, Henry S., Faulkner, Mass. Hinge for awning-blinds	349,016	Sept. 14	661	170	36	1172
Tucker, James W., Springville, assignor of one-half to J. W. Ash, Beaver Valley, Ala. Car-axle box	333,981	Jan. 5	663	181	34	124
Tucker, John, New York, N. Y. Range-boiler	352,375	Nov. 9	931	249, 250	37	639
Tucker, John R., Baxter Springs, Kans. Ribbon-case	352,500	Nov. 9	1083	292	37	669
Tucker, Morris W., Sumner, Mich. Nut-lock	338,624	Mar. 23	2361	621	34	1372
Tucker, Ozro F., Decatur, Ill. Roller-skate	348,249	Aug. 31	2535	681	36	963
Tucker, Robert S., Flushing, N. Y. Carriage	340,466	Apr. 20	1955	502	35	363
Tucker, Sampson E. (See Wakeman, Bryan S., assignor.)						
Tucker, Samuel, Pleasanton, Kans. Adjustable scaffold	348,359	Aug. 31	2671	720	36	991
Tucker & Son, Nathaniel G. (See Barker, Albert A., assignor.)						
Tucker, Stephen D., New York, N. Y. Stop-cylinder printing-machine	344,507	June 29	2474	635, 636	35	1484
Tucker, William A., New York, N. Y. Capsule-joining machine	336,177	Feb. 16	1563	411, 412	34	731

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			Spec.	Dr'g.	Vol.	Page.
Tucker, William H., Indianapolis, Ind. Furniture-caster	347,749	Aug. 17	1798	479	36	813
Tuckfield, Charles B., Salt Lake City, Utah Ter. Stove-pipe anchor	344,332	June 22	2221	572	35	1432
Tuerk, Gustavus A., Chicago, Ill. Water-motor	348,504	Aug. 31	2885	776	36	1031
Tufford, William V., Clinton, Iowa, assignor to Marder, Luce & Co., Chicago, Ill. Attachment for printing-case stands	344,927	July 6	184	47	36	34
Tufts, Cyrus, Columbus, Ohio. Steam-pump	341,393	May 4	594	163	35	612
Tufts, David, Pittsburg, Pa. Slide-valve	342,054	May 18	1483	397	35	800
Tufts, David, Pittsburg, Pa. Slide-valve	342,055	May 18	1486	397	35	800
Tufts, David, Pittsburg, Pa. Vehicle-brake	342,482	May 25	2107	557	35	921
Tufts, David, Pittsburg, Pa. Operating elevator-gates	343,681	June 15	1327	332, 333	35	1261
Tufts, David, Pittsburg, Pa. Car-coupling link	351,723	Oct. 26	2343	610	37	448
Tufts, James W. (See Brown, John, assignor.)						
Tuite, T. P. (See Jeffery, George, assignor.)						
Tull, Frank S., H. Kuehn, and W. F. Beers; said Beers assignor to J. E. Wallis, Galveston, Tex.; said Tull and Kuehn assignors of one-fourth of their right to said Wallis. Process of and machine for the use of compressed air as a motive power	338,209	Mar. 16	1793	467, 468	34	1265
Tullock, William P., Washington, D. C. Rein-holder	343,092	June 1	453	115	35	1089
Tully, Milton C., Louisville, Ky. Device for operating street-cars	343,211	June 8	634	158	35	1131
Tully, Milton C., Louisville, Ky. Sash-holder	353,239	Nov. 23	2109	564	37	879
Tunis Gang Flooring Machine Company. (See Tunis, Henry C., assignor.)						
Tunis, Henry C., assignor to Tunis Gang Flooring Machine Company, Baltimore, Md. Cutter for molding-machines	337,353	Mar. 2	630	166	34	1042
Tunks, Charles R., Adrian, Mich. Car-coupling	340,529	Apr. 20	2045	526	35	380
Tunstead, Charles F., *et al.* (See Baker, William H., assignor.)						
Tunstead, Edward, and J. W. Moore, Minneapolis, Minn. Machine for slitting metallic lathing-sheets	352,636	Nov. 16	1268	342	37	709
Tunstead, William J., *et al.* (See Baker, William H., assignor.)						
Tupper, Charles, Ridgeland, Ill. Grain-cleaner	338,236	Mar. 16	1828	477	34	1271
Turk, W. R. (See Harris, William S., assignor.)						
Turley, John A., Cog Hill, Tenn. Car-coupling	336,875	Feb. 23	2544	670	34	915
Turley, Marshall, Council Bluffs, Iowa. Mortar or composition for coating walls	348,644	Sept. 7	153	.....	36	1075
Turley, Marshall, Council Bluffs, Iowa. Roof	350,512	Oct. 12	581	161	37	113
Turman, William B., Waldron, Ark. Permutation-lock	336,358	Feb. 16	1835	481	34	760
Turman, William B., Waldron, Ark. Permutation-padlock	337,800	Mar. 9	1224	318	34	1152
Turnbull, Adam S. (See Chamberlin and Turnbull.)						
Turnbull, Frederick, Philadelphia, Pa. Machine for washing, dyeing, or sizing warps	351,946	Nov. 2	316	88	37	516
Turnbull, George and J., Chicago, Ill. Privy-seat	334,491	Jan. 19	1420	382	34	277
Turnbull, John. (See Turzbull, George and J.)						
Turnbull, John. (See Vansickle and Turnbull.)						
Turnbull, Thomas P., Englewood, Ill. Feathering paddle-wheel	335,726	Feb. 9	901	237, 238	34	609
Turnbull, William C., Baltimore, Md. Telephone-transmitter	336,876	Feb. 23	2545	670	34	916
Turnbull, William C., Baltimore, Md. Telephone-transmitter	336,877	Feb. 23	2546	670	34	916
Turnbull, William C., Baltimore, Md. Telephone-switch	338,889	Mar. 30	2757	725	34	1448
Turnbull, William C., Baltimore, Md. Telephone-transmitter	339,121	Mar. 30	3086	816, 817	34	1505
Turnbull, William C., Baltimore, Md. Telephone	344,067	June 22	1857	477	35	1366
Turnbull, William C., Baltimore, Md. Telephone-receiver	344,333	June 22	2222	572	35	1432
Turnbull, William C., Baltimore, Md. Telephone-receiver	346,962	Aug. 10	661	176	36	595
Turnbull, William C., Baltimore, Md. Telephone-switch	348,936	Sept. 7	542	143	36	1146
Turneaure, Peter R., Rockford, Ill. Horse-collar	336,964	Mar. 2	107	30	34	945
Turner, Alfred. (See Evans and Turner.)						
Turner Beard Automatic Brake Company. (See Turner, William B., assignor.)						
Turner, Charles, Chicago, Ill. Heater for railway-cars	340,258	Apr. 20	1673	424	35	311
Turner, Charles, Chicago, Ill. Attachment for locomotive smoke-stacks	340,259	Apr. 20	1674	425	35	311
Turner, Chester B. (See Turner, Isaac A., assignor.)						
Turner, Frank C. (See Rauchtigan, Michael, assignor.)						
Turner, Frank S. (See Ford, Thomas J., assignor.)						
Turner, George. (See Colman and Turner.)						
Turner, George, Kalamazoo, Mich. Windmill	339,715	Apr. 13	910	224	35	166
Turner, Isaac A., assignor of one-half to C. B. Turner, Detroit, Mich. Steam-engine	336,025	Feb. 9	1318	349	34	683
Turner, Jacob W., Middle Point, Ohio. Band-cutter and feeder for thrashing-machines	347,280	Aug. 10	1107	296, 297	36	677
Turner, John W., Pittsburg, Pa. Artist's easel	353,719	Dec. 7	99	26	37	1024
Turner, John W., Pittsburg, Pa. Envelope sealer and opener	354,954	Dec. 28	1898	500	37	1381
Turner, Squire S., Columbia, Mo. Endless-chain sickle for mowers and reapers	352,963	Nov. 23	1708	459	37	801
Turner, William A., assignor to Millard Manufacturing Company, Providence, R. I. Atomizer	335,550	Feb. 2	643	168	34	555
Turner, William B., assignor to Turner Beard Automatic Brake Company, New York, N. Y. Car-brake	336,026	Feb. 9	1319	349, 350	34	683
Turner, William H., Indianapolis, Ind. Warm-air furnace	349,825	Sept. 28	1781	460	36	1402
Turner, William W., La Grange, Ga. Rotary engine	344,020	June 22	1785	460	35	1353
Turnure, Frank H., Graham, Mo. Horse-tail holder	336,359	Feb. 16	1838	482	34	780
Turpe, Alevin. (See Henze, Julius, Jr., assignor.)						
Turton, Benjamin, assignor to Crane & Co., Newark, N. J. Bridle-bit	339,716	Apr. 13	911	224	35	166
Turton, William, assignor to J. H. Keyser, New York, N. Y. Stove	352,843	Nov. 16	1542	416	37	761
Turton, William, assignor to J. H. Keyser, New York, N. Y. Portable parlor-heater and hot-air furnace	354,817	Dec. 21	1702	450	37	1332
Tuthill, Daniel S., Newburg, N. Y., assignor of one-half to B. H. and J. J. B. Dubois, Leadville, Colo. Railway-rail	350,089	Sept. 28	2134	552	36	1470
Tutt, Dent G. (See Wilson, David H., assignor.)						
Tuttle Bailey Manufacturing Company. (See Tuttle, Silas, Jr., assignor.)						
Tuttle, George I., Aurora, Ill. Watch-regulator	336,360	Feb. 16	1838	482	34	780
Tuttle, Herbert B., Norristown, N. J. Violin-case	344,508	June 29	2476	636	35	1484
Tuttle, O. G., *et al.* (See Finneran, Charles C., assignor.)						
Tuttle, Silas, Jr., Brooklyn, assignor to Tuttle Bailey Manufacturing Company, New York, N. Y. Hot-air register	346,875	Aug. 3	535	145	36	564
Tuttle, Sterling D., Sr., Eaton, Ohio. Spring bed bottom	348,539	Aug. 31	2938	790	36	1041
Tuttle, William, Dowagiac, Mich. Air-heating stove	354,994	Dec. 28	1948	514	37	1390
Tuttle, William C., Burdett, Mo. Swing	340,330	Apr. 20	2047	526	35	380
Tuttle, Willis H., Canandaigua, N. Y. Potato-digger	349,961	Sept. 28	1957	506	36	1436
Tutton, Anaximander B., Sioux Falls, Dak. Ter. Syringe attachment for bottles	340,927	Apr. 27	2594	684	35	484
Tutton, Anaximander B., Sioux Falls, Dak. Ter. Atomizer	347,750	Aug. 17	1799	480	36	813

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Tuxbury, Willis, *et al.* (See Switzer, John J., assignor.)						
Twambley, George E., Saco, Me. Toe-weight	338,680	Mar. 23	2438	643	34	1385
Tweddell, Ralph H., Westminster, county of Middlesex, J. Platt, and J. Fielding, Gloucester, county of Gloucester, England. Hydraulic forging-press	336,604	Feb. 23	2168	567	34	845
Tweedie, William. (See Grafenstatt and Tweedie.)						
Tweedy, Edmund, Danbury, Conn., H. L. Brevoort, and I. L. Roberts, Brooklyn, N. Y. Preparing fur for felting	339,348	Apr. 6	339	.....	35	64
Tweedy, Edmund, Danbury, Conn., H. L. Brevoort, and I. L. Roberts, Brooklyn, N. Y. Preparing fur for felting	339,349	Apr. 6	340	.....	35	64
Tweedy, Edmund, Danbury, Conn., H. L. Brevoort, and I. L. Roberts, Brooklyn, N. Y. Preparing fur for felting	339,350	Apr. 6	341	.....	35	64
Tweedy, Edmund, Danbury, Conn., H. L. Brevoort, and I. L. Roberts, Brooklyn, N. Y. Preparing fur for felting	339,351	Apr. 6	342	.....	35	64
Tweedy, Edmund, Danbury, Conn., H. L. Brevoort, and I. L. Roberts, Brooklyn, N. Y. Treating fur with prepared oxidizing-vapors	339,352	Apr. 6	343	.....	35	64
Tweedy, Edmund, Danbury, Conn., H. L. Brevoort, and I. L. Roberts, Brooklyn, N. Y. Treating fur to prepare it for felting	339,353	Apr. 6	344	.....	35	64
Tweedy, Edmund, Danbury, Conn., H. L. Brevoort, and I. L. Roberts, Brooklyn, N. Y. Treating fur to prepare it for felting	339,354	Apr. 6	345	.....	35	64
Twichell, Alice L. (See Josselyn, John A., assignor.)						
Twick, Friedrich, Sheboygan, Wis. Combined land-roller and clod-crusher	339,601	Apr. 6	740	182	35	190
Twiss, Nelson W., New Haven, Conn. Valve-gear	350,172	Oct. 5	107	30, 31	37	22
Twist, Charles H., New York, N. Y. Vehicle-spring	354,877	Dec. 21	1782	470	37	1347
Two Rivers Manufacturing Company. (See Bartelle, Nicholas, assignor.)						
Twohig, Patrick, Cleveland, Ohio. Steam-accumulator	338,237	Mar. 16	1829	478	34	1272
Twombly, Orison, *et al.* (See Huse, Warren D., assignor.)						
Tybjerg, Oluf, Copenhagen, Denmark. Protractor	346,519	Aug. 3	91	24	36	478
Tyden, Emil, Chicago, Ill. Corn-planter	353,834	Dec. 7	255	68, 69	37	1053
Tyghe, Joseph, Watertown, S. J. and F. J. Howell, Boston, Mass., assignors to said Tyghe. Machine for removing fleece, wool, hair, &c., from skins	343,552	June 8	1141	288	35	1221
Tylee, James E., assignor to himself, B. S. Clarke, and J. C. Tylee, Ashland, Nebr. Clip-coupling for vehicles	345,460	July 13	922	232	36	171
Tylee, John C., *et al.* (See Tylee, James E., assignor.)						
Tyler, Abel D., South Abington, Mass. Tongue-support	336,605	Feb. 23	2169	567	34	845
Tyler, Abel D., Jr., assignor to O. A. Miller, Brockton, Mass. Boot or shoe tree	348,937	Sept. 7	543	143	36	1146
Tyler, Aaron J., assignor to E. C. Cole, Albion, N. Y. Bench-hook	339,602	Apr. 6	741	182	35	130
Tyler, Aaron J., assignor to E. C. Cole, Albion, N. Y. Bench-hook	341,436	May 4	640	175	35	621
Tyler Bradford Machine Company. (See Tyler, George L., assignor.)						
Tyler, George, assignor to A. M. Barker, W. W. Watkins, C. M. Mahaffey, Rock Creek, and W. C. Stiles, Rome, Ohio. Thill-coupling	334,910	Jan. 26	1974	525	34	387
Tyler, George L., Lynn, Mass., assignor to Tyler Bradford Machine Company. Knife for leather-splitting machines	342,983	June 1	288	75	35	1059
Tyler, George L., Lynn, Mass., assignor to Tyler Bradford Machine Company. Leather-splitting machine	345,007	July 6	305	76, 77	36	56
Tyler, Hiram A., Stamford, and B. McGovern, Bridgeport, Conn. Billiard-chalk holder	336,028	Feb. 9	1324	350	34	684
Tyler, James L., Jr., Boston, Mass. Rubber boot	335,256	Feb. 2	241	63, 64	34	483
Tyler, James L., Jr., Somerville, Mass. Rubber boot	352,501	Nov. 9	1084	292	37	669
Tyler, John. (See Geseen and Tyler.)						
Tyler, John F., *et al.* (See Shellaberger, George H., assignor.)						
Tyler, Matthias S., and T. H. Carter, Mount Sterling, Ky.; said Carter assignor to said Tyler. Chain-pump	337,354	Mar. 2	631	166	34	1043
Tyler, Washington S. (See White, Joseph W., assignor.)						
Tyler, William H., David City, Nebr. Calf-weaner	350,707	Oct. 12	856	230	37	163
Tyler, William W. (See Davis and Tyler.)						
Tylor, Joseph J., London, county of Middlesex, England. Rotary water-meter	354,614	Dec. 21	1420	376	37	1278
Tynan, Joseph E., Paterson, N. J. Belt-tightener for spinning-machines, &c	336,027	Feb. 9	1322	350	34	683
Tynan, Joseph E., Paterson, N. J. Doubling and winding machine	346,693	Aug. 3	304	83, 84	36	520
Tynan, Joseph E., Paterson, N. J. Spindle-bearing for spinning-machines	349,826	Sept. 28	1783	461	36	1402
Tynan, Joseph E., Paterson, N. J. Spindle supporting and driving device for spinning-machines	351,480	Oct. 26	1999	519, 520	37	383
Tyng, A. G., Jr., *et al.* (See Hornish, Harry C., assignor.)						
Type Writer Company. (See Jenne, William K., assignor.)						
Tyree, William H. (See McNeal, Andrew C., assignor.)						
Tyrell, Samuel, Grass Valley, Cal. Candlestick	345,461	July 13	923	232	36	171
Tyrrell, Gilbert R., La Porte, Ind. Lawn-mower	355,234	Dec. 28	2302	606	37	1458
Tyson, Allen H., Lansdale, Pa. Horse-boot	333,982	Jan. 5	664	182	34	125
Tyson, Bryan, Washington, D. C. Amalgamator	342,272	May 18	1782	472	35	855
Tyson, Bryan, Washington, D. C. Combined amalgamator and concentrator	344,797	June 29	2854	739	35	1557
Tyson, Charles. (See Morse and Tyson.)						
Tyus, Robert M., Kerens, Tex. Cotton and corn planter	353,648	Nov. 30	2725	727	37	998
Udell, Calvin G., Indianapolis, Ind. Ironing-table	340,641	Apr. 27	2216	581	35	416
Udell, Calvin G., Indianapolis, Ind. Arm-commode	354,364	Dec. 14	1050	281	37	1206
Udell, Calvin G., North Indianapolis, Ind. Folding towel-rack	349,769	Sept. 28	1702	439	36	1386
Udell, Calvin G., North Indianapolis, Ind. Towel-roller	349,770	Sept. 28	1703	439	36	1386
Udell, Calvin G., North Indianapolis, Ind. Clothes-line support	350,173	Oct. 5	108	31	37	23
Uebele, Conrad, deceased; J. M. Uebele, executrix, Chicago, Ill. Rocking-horse	336,269	Feb. 16	1711	446	34	756
Uebele, Jennie M., executrix. (See Uebele, Conrad.)						
Uecke, Charles W. (See Uecke, Robert C. and C. W.)						
Uecke, Robert C. and C. W., Seymour, Wis. Hame-fastening	347,076	Aug. 10	837	223	36	627
Uffelmann, Friedrich, Red Bud, Ill. Reversing device for engines	344,225	June 22	2081	532	35	1407
Uhde, Frederick W., Philadelphia, Pa. Medical operating-couch	346,246	July 27	2064	530	36	396
Uhl & Co., Carl. (See Sternberg, Lothar, assignor.)						
Uhlich, Ferdinand G., St. Louis, Mo. Case for physicians' prescription-papers, &c	338,807	Mar. 30	2633	693	34	1426
Uhlich, Ferdinand G., St. Louis, Mo. Suppository-machine	342,236	May 18	1725	459	35	845
Uhlig, Augustinus, Pegau, Saxony, Germany. Piano tuning-pin	345,743	July 20	1361	354	36	258
Uhlmann, Charles R., Peoria, Ill. Lock	347,664	Aug. 17	1688	449, 450	36	793
Uhlmann, Charles R., Peoria, Ill. Lock	350,573	Oct. 12	666	182	37	128
Ulbrich, Carl, Niederlössnitz, Saxony, Germany. Inhaler	352,668	Nov. 16	1316	354	37	718
Ulings, Charles G., assignor to C. W. Rogers, Boston, Mass. Umbrella-holder	352,844	Nov. 16	1543	416, 417	37	761
Ullman, Morris, Washington, D. C. Electric annunciator-target	346,876	Aug. 3	536	145, 146	36	565

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Ulman, Alfred A. (See Woodstock, Warren Z., assignor.)						
Ulmer, John G., *et al.* (See Collins, Joseph S., assignor.)						
Ulrich, Frederick, Peru, Ind. Wagon-brake	340,173	Apr. 20	1545	390	35	287
Ulrich, Max, Easthampton, Mass. Oscillating steam-engine	338,890	Mar. 30	2757	726	34	1448
Umpleby, William H., Trenton, N. J. Water-closet	344,884	July 6	130	32	36	23
Umpleby, William H., Trenton, N. J. Water-closet	349,293	Sept. 14	1025	262	36	1242
Unangst, Henry S., Phillipsburg, N. J. Railway alarm-signal	340,390	Apr. 20	1855	476	35	346
Unbehend, Jacob J., Syracuse, N. Y. Spring-clasp	336,769	Feb. 23	2397	628	34	889
Unbehend, Jacob J., assignor to J. L. Thomson & Co., Syracuse, N. Y. Clasp-plate for shoe-clasps	339,603	Apr. 6	742	182	35	130
Unbehend, Jacob J., assignor to J. L. Thomson & Co., Syracuse, N. Y. Rivet attachment for rubber boots or shoes	345,555	July 13	1082	277	36	200
Underhill, Andrew J., 2d, Gasport, assignor to himself and E. Hinchey, Middleport, N. Y. Bundle-carrier	333,796	Jan. 5	412	111	34	78
Underhill, George E., Bridgeport, Conn. Chair	351,671	Oct. 26	2276	589	37	436
Underhill, Hazen R., Derry, N. H. Axle-box	343,350	June 8	861	217	35	1170
Underhill, Stephen W., Croton Point, N. Y. Brick-mold	350,960	Oct. 19	1212	321	37	235
Underwood, Frederick W. (See Underwood, John T. and F. W.)						
Underwood, George B., Toronto, Ontario, Canada. Lock	349,017	Sept. 14	662	170	36	1172
Underwood, Harold G. (See Cole, Elizabeth J., assignor.)						
Underwood, Harrison, and S. Schweizer, New York, N. Y. Cloth-beam for looms	342,148	May 18	1615	432	35	825
Underwood, Henry M. (See Miltimore and Underwood.)						
Underwood, John, Sheridan, Ind. Harrow	354,497	Dec. 14	1226	328	37	1237
Underwood, John R., assignor of one-half to I. N. Hansbrough and W. H. Mueller, Columbus, Ohio. Faucet	344,695	June 29	2713	705	35	1531
Underwood, John T. and F. W., Brooklyn, N. Y. Composition for transfer surfaces for producing copies of type-writing	348,072	Aug. 24	2273	.....	36	909
Underwood, John T. and F. W., Brooklyn, N. Y. Reproducing surface for type-writing and manifolding	348,073	Aug. 24	2273	.....	36	909
Underwood, Marshall H., South Riley, Ill. Thill-coupling	337,895	Mar. 16	1359	353	34	1183
Unger, Louis, San Antonio, Tex. Nut-lock	343,870	June 15	1583	403	35	1308
Unger, Martin L., Nelson, Nebr. Plow attachment	344,424	June 29	2357	607	35	1464
Unger, Martin L., assignor of one-half to A. W. Mock, Nelson, Nebr. Cultivator	353,410	Nov. 30	2361	629	37	932
Union Bag Machine Company. (See Muther, Lorenz, assignor.)						
Union Bag Machine Company. (See Weyburn, Elbert D., assignor.)						
Union Eyelet Company. (See Thornton, Joseph F., assignor.)						
Union Hydraulic Drain Tile Company. (See Carson, Robert J., assignor.)						
Union Manufacturing Company. (See Birchall, George W., assignor.)						
Union Manufacturing Company. (See St. John, Roswell H., assignor.)						
Union Metallic Fastening Company. (See Eppler, Andrew, Jr., assignor.)						
Union Metallic Fastening Company. (See Eppler and Cole, assignors.)						
Union Paper Bag Machine Company. (See Appel, Daniel, assignor.)						
Union Paper Bag Machine Company. (See Farnsworth, Harry M., assignor.)						
Union Stove Works. (See Finch, Reuben R., assignor.)						
Union Switch and Signal Company. (See Jackson, Caleb H., assignor.)						
United Gas Improvement Company. (See Granger, Arthur O., assignor.)						
United States Automatic Water Cut Off Company. (See Browne, Walker G., assignor.)						
United States Cartridge Company. (See Dimon, Charles A. R., assignor.)						
United States Car Wheel Dressing Company. (See Miltimore, George W., assignor.)						
United States Dynamite Company of New York. (See Eissler, Manuel, assignor.)						
United States Electric Company. (See Short, Sidney H., assignor.)						
United States Electric Lighting Company. (See Weston, Edward, assignor.)						
United States Exhaust, Filling and Carbonating Company. (See Hunt, James, assignor.)						
United States Prismatic Light Company. (See Nelke, Louis, assignor.)						
United States Torsion Balance and Scale Company. (See Hosea and Springer, assignors.)						
United States Torsion Balance and Scale Company. (See Roeder, Frederick A., assignor.)						
United States Torsion Balance and Scale Company. (See Springer and Roeder, assignors.)						
United States Waterproofing Fibre Company. (See Horner and Hyde, assignors.)						
Unks, Thomas E. (See Lee, William D., assignor.)						
Unverferth, David, Dayton, Ohio. Scaffold	339,502	Apr. 6	558	135	35	103
Unzicker, Otto, Chicago, assignor to A. Shoeninger, Lake View, Ill. Sled	349,827	Sept. 28	1784	461	36	1403
Unzicker, Otto, assignor to A. Shoeninger, Chicago, Ill. Child's carriage	351,818	Nov. 2	134	34, 35	37	481
Unzicker, Otto, assignor to A. Schoeninger, Chicago, Ill. Velocipede	355,038	Dec. 28	2011	530	37	1400
Upham, Andrew J., Sycamore, Ill. Cleaner for gun-barrels	345,818	July 20	1467	379	36	276
Upham, Andrew J., Sycamore, assignor to M. D. Shipman, De Kalb, Ill. Fence-wire tightener	344,607	June 29	2604	675	35	1510
Upham, David A., and T. J. Fay, Worcester, assignors of one-fourth to A. F. Luscomb and J. M. Parsons, Salem, Mass. Tailor's gas-iron	343,409	June 8	950	237	35	1187
Upham, Joseph K., New York, N. Y. Hat-seat	341,616	May 11	901	240	35	681
Upham, William P., Peabody, assignor to N. M. Dyer, Melrose, Mass. Manufacture of glue	343,507	June 8	1083	271	35	1210
Upperman, T. H., *et al.* (See Le Grande, William W., assignor.)						
Uprichard, John, Philadelphia, Pa. Water-closet	349,962	Sept. 28	1958	506	36	1436
Upshaw, Loucinis L., Jackson's Gap, Ala. Cotton-planter and fertilizer-distributer	349,325	Sept. 21	1061	272	36	1257
Upson, Andrew S., and H. A. Cowles, Unionville, Conn. Square	343,616	June 15	1242	312	35	1247
Upson Nut Company. (See Hasenclever, Friedrich A., assignor.) (Reissue.)						
Upton, Charles S. (See Rhind, Frank, assignor.)						
Upton, Eugene C. (See Fairbanks, John A., assignor.)						
Upton, Francis R. (See Howell, John W., assignor.)						
Upton, Frank S., *et al.* (See Hatfield, Charles R., assignor.)						
Upton, George W. D., Springfield, Mass. Machine for cutting rags and other material	351,080	Oct. 19	1404	369	37	269
Upton, James S., Battle Creek, Mich. Wire fence	347,751	Aug. 17	1800	480	36	813
Upton, King, Salem, Mass. Manufacturing glue	338,374	Mar. 23	2025	532	34	1313
Urann, Frederic W., Painesville, Ohio. Sectional and folding boat	338,450	Mar. 23	2130	557	34	1332
Urban, George, Jr. (See Ortman, Barnim F., assignor.)						
Urie, Henry F., Chestertown, Md. Corn-harvester	345,195	July 6	544	139	36	99
Urie, Thomas, assignor of one-half to H. Deitz, Boulder, Colo. Wagon-brake lever	342,719	May 25	2453	650	35	984
Urwick, Henry, St. Dunstans, Malvern, county of Worcester, England. Glove and glove-fastening	351,724	Oct. 26	2347	610	37	449
Usher, John T., Elmira, N. Y. Micrometer inside calipers	347,844	Aug. 24	1941	515	36	848
Utley, Hiram S., assignor of one-half to H. S. Bowen, Chicago, Ill. Producing imitation-stone	336,675	Feb. 23	2281	.....	34	866
Utter, Horace B., assignor to Utter Manufacturing Company, Rockford, Ill. Potato-digger	343,553	June 8	1144	288 / 289	35	1221

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Utter, Horace B., assignor to Utter Manufacturing Company, Rockford, Ill. Potato-digger	343,554	June 8	1145	289	35	1222
Utter Manufacturing Company. (See Utter, Horace B., assignor.)						
Utter, Samuel N., Franklin, Ind. Rotary churn	346,180	July 27	1963	506	36	376
Utter, Stanley M. (See Canfield, Charles S., assignor.)						
Vail, John D., Blairstown, N. J. Indicator for closet and other doors	345,339	July 13	751	189	36	141
Vail, Jonathan H. (See Steringer and Vail.)						
Vail, Martha A., New Milford, Pa. Dish-drainer	347,665	Aug. 17	1690	450	36	793
Vail, Samuel S., assignor to Curtis & Co. Manufacturing Company, St. Louis, Mo. Sawguide	351,672	Oct. 26	2278	589	37	436
Vail, Samuel S., and J. Solliday, St. Louis, Mo. Gang-edger	334,997	Jan. 26	2084	556	34	407
Vail, William H., *et al.* (See Whitney, Daniel D., assignor.)						
Vail, William H., Cleveland, Ohio. Car-starter	350,220	Oct. 5	176	51	37	36
Vale, Charles A., assignor of one-half to L. F. Young, Baltimore, Md. Skylight	356,677	July 20	1822	470	36	310
Valentin, Charles A., Philadelphia, Pa. Cigar-mold	344,492	Jan. 19	1421	382	34	277
Valentine, Benjamin E. (See Eddy, George D., assignor.)						
Valentine, David H., Brooklyn, N. Y. Subterranean water-collecting dam	354,276	Dec. 14	932	245	37	1182
Valentine, Richard L., Brooklyn, N. Y., assignor to J. W. Van Dyke. Portable derrick	337,462	Mar. 9	813	{205 / 206}	34	107
Valentine, Robert G., Flatbush, assignor of two-thirds to B. Good, New York, and J. W. Good, Brooklyn, N. Y. Box-strap	342,942	June 1	242	62	35	1050
Valentine, Robert H. C., assignor of one-half to E. G. Rideout, New York, N. Y. Hand-grenade extinguisher	350,647	Oct. 12	781	213	37	149
Valentine, Samuel W., Boston, Mass. Clip for leaves of music-folios, &c	337,639	Mar. 9	1029	264	34	1118
Valentine, Waldo W., Buffalo, N. Y. Vehicle-wheel	347,815	Aug. 24	1943	515	36	549
Valentine, William M., Glen Cove, N. Y. Sash-holder	348,431	Aug. 31	2780	747	36	1012
Valette, Frank L., and C. D. Cady, Providence, R. I. Pillow-sham holder	342,655	May 25	2352	621	35	966
Valetton, Louis D., assignor to Hensel, Colladay & Co., Philadelphia, Pa. Making chenille fringe	341,058	May 4	142	42	35	531
Valiant, Placito F., assignor of one-half to G. S. Toliver, Jefferson, Iowa. Electric belt	336,450	Feb. 16	1062	514	34	803
Valk, Charles R., Charleston, S. C. Cotton-gin cylinder	354,955	Dec. 28	1399	500	37	1381
Van Arsdale, Theodore C., Montclair, N. J. Paint-exhibitor	337,034	Mar. 2	206	55	34	963
Van Brocklin, John W., assignor of one-half to W. R. Forrest, Seattle, Wash. Ter. Amalgamator	341,863	May 11	1226	328	35	745
Van Buren, Jafew S., Albany, N. Y. Cooking stove or range	353,992	Dec. 7	498	135	37	1097
Van Buren, Martin. (See White, Jackson, and Van Buren.)						
Van De Velde, Bernard F., *et al.* (See Bühler, Jacob, assignor.)						
Van De Velde, Frank B., *et al.* (See Bühler, Jacob, assignor.)						
Van De Velde, Henry T., *et al.* (See Bühler, Jacob, assignor.)						
Van De Water, James H., Auburn, N. Y. Harvester cutter-bar	353,899	Dec. 7	358	95	37	1072
Van den Kerchove, Prosper, Ghent, Belgium. Device for cooling machine-tools	354,498	Dec. 14	1227	328	37	1237
Van Depoele, Charles J., Chicago, Ill. Overhead conductor for electric railways	334,062	Jan. 12	787	216	34	154
Van Depoele, Charles J., Chicago, Ill. Regulator for dynamo-electric machines	335,659	Feb. 9	799	213	34	591
Van Depoele, Charles J., Chicago, Ill. Electric-arc lamp	336,452	Feb. 16	1965	515	34	803
Van Depoele, Charles J., Chicago, Ill. Overhead conductor for electric railways	336,453	Feb. 16	1966	{515 / 516}	34	803
Van Depoele, Charles J., Chicago, Ill. Electro-magnetic reciprocating engine	337,897	Mar. 16	1362	354	34	1184
Van Depoele, Charles J., Chicago, Ill. Carriage for rock-drills	337,898	Mar. 16	1366	354	34	1184
Van Depoele, Charles J., Chicago, Ill. Carbon for incandescent lamps	337,899	Mar. 16	1367	354	34	1185
Van Depoele, Charles J., Chicago, Ill. Dynamo-electric generator	338,320	Mar. 23	1944	512	34	1299
Van Depoele, Charles J., Chicago, Ill. System of generating electrical currents	338,321	Mar. 23	1945	512	34	1300
Van Depoele, Charles J., Chicago, Ill. Electro-magnetic reciprocating engine	338,375	Mar. 23	2026	532	34	1313
Van Depoele, Charles J., Chicago, Ill. Suspended electric conductor	344,425	June 29	2358	607	35	1464
Van Depoele, Charles J., Chicago, Ill. Automatic suspended switching device for electric railways	346,963	Aug. 10	662	176	36	595
Van Depoele, Charles J., Chicago, Ill. Electric railway-traveler and switch-operator	347,901	Aug. 24	2021	536	36	862
Van Depoele, Charles J., Chicago, Ill. Electro-dynamic motor	347,902	Aug. 24	2025	536	36	862
Van Depoele, Charles J., Chicago, Ill. Regulator for electric motors	347,903	Aug. 24	2027	536	36	863
Van Depoele, Charles J., Chicago, Ill. Dynamo-electric railway-brake	347,904	Aug. 24	2029	537	36	863
Van Depoele, Charles J., Chicago, Ill. Underground conduit for electric railways	347,905	Aug. 24	2030	537	36	863
Van Depoele, Charles J., Chicago, Ill. Electro-magnetic railway-brake	348,360	Aug. 31	2672	720	36	991
Van Depoele, Charles J., Chicago, Ill. Power-connection for railway-trains	350,221	Oct. 5	177	51	37	36
Van Depoele, Charles J., Chicago, Ill. Commutator-brush	352,074	Nov. 2	497	134	37	552
Van Depoele, Charles J., Chicago, Ill. System of motors for electric railway-brakes	352,167	Nov. 9	662	176	37	587
Van Depoele, Charles J., Chicago, Ill. Incandescent electric lamp	353,333	Nov. 30	2242	600	37	910
Van Depoele, Charles J., Chicago, Ill. Automatic circuit-controller for electroplating-machines	353,334	Nov. 30	2243	601	37	910
Van Depoele, Charles J., Chicago, Ill. Electric locomotive	353,335	Nov. 30	2244	601	37	910
Van Depoele, Charles J., Chicago, Ill. Composition of matter for insulating electric conductors	353,653	Nov. 30	2730	.....	37	1000
Van Depoele, Charles J., Chicago, Ill., assignor of one-half to R. H. Mather, Windsor, Conn. Dynamo-electric machine	337,896	Mar. 16	1360	353	34	1183
Van Derveer, Benjamin B., New York, N. Y. Baking furnace and oven	349,771	Sept. 28	1704	439	36	1386
Van Deusen, Clarence R., Passaic, N. J. Rubbing-machine	345,462	July 13	924	232	36	171
Van Dolsen, Augustus F., Liberal, assignor to R. J. Morris & Co., Dennison, Mo. Weather-strip	335,098	Jan. 26	2236	593	34	434
Van Dorston, Alvin W., Portland, Oreg. Car-coupling	341,292	May 4	460	125	35	589
Van Dorston, Alvin W., Portland, Oreg., assignor of one-half to G. Vandorston, Argos, Ind. Sectional flasher steam-boiler	339,950	Apr. 13	1220	303	35	224
Van Dresar, Stephen. (See Laufer, Charles, assignor.)						
Van Dusen, Charles E., Oneonta, N. Y. Staple-holding implement	337,212	Mar. 2	438	115	34	1007
Van Duzen, Ezra W., Jr., Newport, Ky. Stove or range door	354,451	Dec. 14	1158	310	37	1225
Van Dyke, John W. (See Valentine, Richard L., assignor.)						
Van Dyke, Milton, *et al.* (See Davis, Ellery C., assignor.)						
Van Eps, John, Somerville, N. J. Music-leaf turner	349,540	Sept. 21	1378	357	36	1318
Van Etten, Helen M., Moravia, N. Y. Stiffener for corsets	336,606	Feb. 23	2170	567	34	846
Van Evera, Dewitt, Maquoketa, Iowa. Combined heating-drum and oven	353,181	Nov. 23	2035	544	37	864
Van Gelder, Pieter, Sowerby Bridge, county of York, England. Feed mechanism for roller grinding-mills, &c	335,257	Feb. 2	243	64	34	484
Van Gelder, Pieter, Sowerby Bridge, county of York, England. Roller grinding-mill	340,019	Apr. 13	1319	{329 / 330}	35	241
Van Gestel, Jean T., Hartford, Conn. Incandescent lamp and connections	345,008	July 6	306	77	36	56
Van Guysling, Aaron, West Albany, N. Y. Oscillating engine	336,454	Feb. 16	1969	516	34	804
Van Hagen, Isaac, Chicago, Ill. Machine for forming corner-pieces for stove-boards	355,235	Dec. 28	2303	607	37	1458

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Van Hall, August. (See Williams and Dewert, assignors.)						
Van Horn, David E., Elkhart, Ind. Meat-tenderer	336,455	Feb. 16	1970	516	34	804
Van Horn, William, Piqua, Ohio. Machine for making fences	352,939	Nov. 23	1675	450	37	796
Van Horn, William, Piqua, assignor to L. S. Mohler, L. P. Shellabarger, and J. Senseman, Covington, Ohio. Fence-machine	347,400	Aug. 17	1290	344	36	719
Van Houten, Frank H., Matteawan, N. Y. Oven-light	342,769	May 25	2520	673	35	997
Van Kammen, Harmannus, Grandville, Mich. Funnel	343,871	June 15	1583	403	35	1309
Van Keuren, George C., Duquoin, Ill. Vehicle-axle and axle-nut	335,858	Feb. 9	1087	287	34	643
Van Meter, William L., Vineland, N. J. Shoe-maker's knife	342,985	June 1	289	75	35	1059
Van Meter, William L., Vineland, N. J. Shoe-knife	354,275	Dec. 14	931	245	37	1182
Van Ness, Albert, Tecumseh, Nebr. Wind-wheel	339,717	Apr. 13	913	224	35	167
Van Ness, Orrin C., Pomme de Terre, assignor of one-half to P. Winsor, Fergus Falls, Minn. Harrow	353,611	Nov. 30	2655	710	37	988
Van Noorden, Ezekiel, Boston, Mass. Metallic shingle	341,188	May 4	300	85	35	560
Van Normann, Gustaf, assignor to M. M. Van Normann, Minneapolis, Minn. Fish-hook	345,088	July 6	404	102	36	73
Van Normann, Minna M. (See Van Normann, Gustaf, assignor.)						
Van Note, Edwin, Hamilton, Mo. Truss	340,067	Apr. 13	1384	348	35	253
Van Nuis, Charles S., *et al.* (See Dyer, Richard N., assignor.)						
Van Nuis, Charles S., *et al.* (See Howell, John W., assignor.)						
Van Nuys, Thomas C., *et al.* (See Hunter, George D., assignor.) (Reissue.)						
Van Order, Jacob W., Arlington, Oreg. Force-pump	348,361	Aug. 31	2673	720	36	991
Van Orman, John G. (See Smith and Van Orman.)						
Van Ostrand, Thomas, assignor of two-thirds to P. A. Coffman and A. Telfer, Kinsley, Kans. Handsaw	350,403	Oct. 5	393	113	37	79
Van Patten, William J. (See Boynton and Van Patten.)						
Van Range Company, John. (See Ziegle, Louis E., assignor.)						
Van Reed, Wellington, *et al.* (See Hill, Charles S., assignor.)						
Van Riper, Abram H. (See Kip and Van Riper.)						
Van Ritter, William. (See Ritter and Van Ritter.)						
Van Ruymbeke, Joseph, assignor to National Chemical and Fertilizer Company, Chicago, Ill. Fertilizer	341,968	May 18	1365	.....	35	778
Van Ruymbeke, Joseph, assignor to National Chemical and Fertilizer Company, Chicago, Ill. Process of obtaining ammonia	342,237	May 18	1725	459	35	845
Van Ruymbeke, Joseph, assignor to National Chemical and Fertilizer Company, Chicago, Ill. Making a fertilizer from tank-waste	342,238	May 18	1727	.....	35	846
Van Ruymbeke, Joseph, assignor of one-half to W. F. Jobbins, Chicago, Ill. Obtaining ammonia and illuminating gas from tank-waters	351,412	Oct. 26	1898	.....	37	364
Van Schaumburg, Louis S., Bochum, assignor to E. Rose, Hanover, Prussia, Germany. Axle-box	348,432	Aug. 31	2780	747	36	1012
Van Siclen, James, Jamaica, N. Y. Potato-digger	345,936	July 20	1627	419 420	36	305
Van Siclen, James, Jamaica, N. Y. Fertilizer-distributer	347,535	Aug. 17	1482	393	36	754
Van Slyke, Isaac R., Chicago, Ill. Folding bed	340,688	Apr. 27	2274	599	35	426
Van Stone, Edwin D., Syracuse, and E. W. Taylor, Albion, N. Y. Hot-air furnace	334,310	Jan. 12	1165	312	34	224
Van Sycle, Leonidas H., assignor to himself and J. F. Creamer, Fort Lee, N. J. Carriage-loading machine	336,676	Feb. 23	2282	596 597	34	866
Van Vaulkenburg, Randall T., *et al.* (See Henderson, Harry D., assignor.)						
Van Vleck, John P., Cooksville, Wis. Potato-planting machine	349,242	Sept. 14	968	247	36	1229
Van Vliet, Warren R., East Stroudsburg, Pa. Wire-bending machine	336,361	Feb. 16	1840	482	34	780
Van Vliet, William C., New York, N. Y. Machine for wiring the corked necks of bottles	352,168	Nov. 9	664	177 178	37	588
Van Volkenburgh, Phillip, Jr., *et al.* (See Secor, Jerome B., assignor.)						
Van Voorhis, George S., Bucyrus, Ohio. Refrigerator	336,501	Feb. 16	2021	530	34	813
Van Vranken, Benjamin, Schenectady, N. Y. Flush-tank and siphon	340,836	Apr. 27	2477	652	35	463
Van Wagenen, Albert, Boston, and L. Goddu, Winchester, Mass., assignors to Goddu Improvement Company, Portland, Me. Safety device for cable cars	342,273	May 18	1785	473	35	856
Van Wie, Daniel D., Indianapolis, Ind. Combined map, chart, and book case	337,095	Mar. 2	283	75	34	970
Van Winkle, Edward, Atlanta, Ga. Cotton-gin	347,666	Aug. 17	1690	450	36	793
Van Winkle, Garret, North Plainfield, N. J. Knob attachment	349,915	Sept. 28	1890	489	36	1424
Van Winkle, George H., Hornellsville, N. Y. Combined latch and lock	339,245	Apr. 6	190	49	35	36
Van Winkle, John A., St. Joseph, Mo. Compound for softening and dyeing broom-corn	334,140	Jan. 12	895	.....	34	174
Van Wormer, Matthew, Malden, Mass. Stove	339,355	Apr. 6	346	84	35	64
Van Wyck, Frederick, New York, N. Y. Throw-off mechanism for oscillating printing-machines	348,302	Aug. 31	2605	701	36	978
Van Wyck, William, assignor of one-half to H. A. Hudson, Newark, N. J. Mower	353,993	Dec. 7	499	135	37	1097
Vance, Samuel J., Macomb, Ill. Window-screen	336,178	Feb. 16	1566	412	34	732
Vance, Samuel J., Macomb, Ill. Sash-balance	346,567	Aug. 3	147	40	36	489
Vance, Thomas C. H., Louisville, Ky. Electric clock and indicator system	347,399	Aug. 17	1289	343	36	719
Vandegrift, John W., and F. L. Campbell, Pulaski City, Va. Railway-switch	346,789	Aug. 3	415	114 115	36	541
Vandegrift, Nathaniel W. (See Armstrong and Vandegrift.)						
Vandegrift, Theodore P., Noah, Ind. Fence-machine	341,706	May 11	1028	272	35	707
Vandemark, Archibald B., New York, N. Y. Gas or oil stove	333,797	Jan. 5	413	112	34	78
Vanden Berghe, Peter, Philadelphia, Pa. Sheet-metal roof-seaming implement	340,174	Apr. 20	1546	390	35	288
Vanderbeugle, Maurice, New York, N. Y. Overalls	338,118	Mar. 16	1677	435	34	1241
Vandercook, Mark, Brockton, Ill. Buckle	342,984	June 1	288	75	35	1059
Vanderslice, Thomas L., Philadelphia, Pa. Extension step-ladder	349,189	Sept. 14	895	230	36	1216
Vanderveer, William, Bushnell, Ill. Automatic grain-weigher	342,402	May 25	1995	527	35	900
Vanderwoort, Manly R. (See Simon, August T., assignor.)						
Vanderwerken, Theodore E., Green Island, and G. A. Harrison, Troy, N. Y. Nut-lock	343,743	June 15	1430	357	35	1279
Vandewater, Eulalie M., administratrix. (See Vandewater, Joseph.)						
Vandewater, Joseph, deceased; E. M. Vandewater, administratrix, and assignor to Esterly Harvesting Machine Company, Whitewater, Wis. Mowing-machine	336,451	Feb. 16	1963	514	34	803
Vandorston, George. (See Van Dorston, Alvin W., assignor.)						
Vanduzen, Benjamin C., Winton Place, Ohio. Pneumatic signal for railway-crossings	342,720	May 25	2454	651	35	984
Vanduzen, Benjamin C., Winton Place, Ohio. Pump	354,669	Dec. 21	1499	397	37	1292
Vanduzen, Ezra W., Newport, Ky. Purifier of the water of steam-boilers	339,244	Apr. 6	184	48	35	35
Vandyke, James F., Anderson, Ind. Releasing device	345,556	July 13	1083	277	36	200
Vandyke, James F., and J. P. Barns, Anderson, Ind. Pruning-knife	336,270	Feb. 16	1712	446	34	756
Vanes, Arthur B., Uitenhage, Cape of Good Hope. Valve-stopper for bottles	338,571	Mar. 23	2283	599	34	1359
Vangezell, Ezekiel, and H. Stetser, Camden, N. J. Four-way valve and branch pipe	337,718	Mar. 9	1126	290	34	1134
Vanhorn, Joseph S., Jersey City, N. J., assignor to W. H. Woglom, Brooklyn, N. Y. Bill and letter file	337,213	Mar. 2	439	115	34	1007

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Vanborn, Joseph S., Jersey City, N. J., assignor to W. H. Wogloun, Brooklyn, N. Y. Bill and letter filing device	337,214	Mar. 2	440	115	34	1008
Vankirk, Arthur C., Fort Recovery, Ohio, assignor of one-half to H. Reitenour and J. J. Downing, Union City, Ind. Dumping-wagon	339,604	Apr. 6	743	183	35	131
Vannerson, Alfred T., Baltimore, Md. Baby-carriage	346,790	Aug. 3	416	115	36	541
Vannerson, Alfred T., Baltimore, Md. Top for children's carriages	348,074	Aug. 24	2274	609	36	909
Vannett, Jasper, assignor of one-third to G. S. Yingling, Tiffin, Ohio. Oscillating hook for sewing-machines	336,456	Feb. 16	1971	516	34	804
Vansant, William S., and R. W. Cooke, Dixon, Cal. Egg-tester	351,542	Oct. 26	2085	541	37	401
Vansickle, Thomas W., and J. Turnbull, Detroit, Mich. Harvester sickle-bar	339,503	Apr. 6	559	135	35	103
Vanstone, Samuel, assignor of one-half to G. Hancock, Providence, R. I. Electrical push-button	341,293	May 4	463	125	35	589
Vanstrom, Salomon, Canby, Minn. Spinning attachment for sewing-machines	345,341	July 13	753	189	36	142
Varian, Samuel T., East Orange, N. J. Screen for coal and other material	336,371	Feb. 16	1713	446	34	756
Varing, Olaf, Christiania, Norway. Photographic camera	347,451	Aug. 17	1369	364	36	732
Varley, John J. (See Barrett and Varley.)						
Varnauf, George P., Wichita, Kans. Weather-strip	346,833	Aug. 3	474	131	36	553
Varney, John H., Hallowell, Me. Apparatus for stretching and drying cloth	347,212	Aug. 10	1016	270, 271	36	660
Varwig, Henry. (See La Boiteaux, Frank M., assignor.)						
Vásárhelyi, Albert, Buda-Pesth, Austria-Hungary. Churn	342,654	May 25	2351	621	35	965
Vasseur, Joseph, Jr., Ontanagon, Mich. Spring-trap	334,311	Jan. 12	1167	313	34	225
Vaughan, Aaron C., Shane's Crossing, Ohio. Nut-lock	349,674	Sept. 21	1539	397	36	1351
Vaughan, Aaron C., Shane's Crossing, Ohio, assignor of one-half to J. H. Sternbergh, Reading, Pa. Nut-lock	337,801	Mar. 9	1226	318	34	1152
Vaughan, Frank, Elizabeth City, N. C. Life-preserving float	346,332	July 27	2182	560	36	417
Vaughan, Frank, Elizabeth City, N. C. Car-coupling	352,791	Nov. 16	1474	398	37	749
Vaughan, John G., Middleborough, Mass. Construction of chimneys	341,362	May 4	549	151	35	604
Vaughan, Oswald S., Glasgow, Mo. Folding music-stand	340,391	Apr. 20	1856	477	35	346
Vaughan, Thomas M., Fullers Point, Ill. Whiffletree	340,175	Apr. 20	1547	391	35	288
Vaughen, Samuel W. (See Williams and Vaughen.)						
Vaughn, Edgar F., assignor to P. B. Vaughn, Topeka, Kans. Locomotive ash-pan	344,608	June 29	2605	675	35	1510
Vaughn, Gary H., Hannibal, Mo. Garden-plow	338,119	Mar. 16	1677	435	34	1242
Vaughn, Joseph W., Peabody, Mass., assignor to Vaughn Morocco Machine Company, Portland, Me. Putting-out machine	344,068	June 22	1857	477, 478	35	1366
Vaughn, Joseph W., Peabody, Mass., assignor to Vaughn Morocco Machine Company, Portland, Me. Roll for leather-working machines	344,069	June 22	1863	478	35	1367
Vaughn Morocco Machine Company. (See Vaughn, Joseph W., assignor.)						
Vaughn, Pierce B. (See Vaughn, Edgar F., assignor.)						
Vaughn, William H., Quincy, Ill. Hitching device	334,827	Jan. 26	1870	498	34	368
Vavasseur, Josiah, Southwark, county of Surrey, England. Gun-carriage	342,403	May 25	1997	528	35	901
Vavasseur, Josiah, Southwark, county of Surrey, England. Gun-mounting	345,744	July 20	1361	354, 355	36	258
Veale, George, Jr., Philadelpnia, Pa. Waste-pipe trap	354,075	Dec. 7	612	168	37	1118
Vedder, Andrew S., Brooklyn, assignor to Eagle Pencil Company, New York, N. Y. Pencil-sharpener	350,330	Oct. 5	310	88	37	63
Veilleux, Anselm, and W. Benington, assignors of one-third to C. G. Shepard, Stillwater, Minn. Letter-press	347,536	Aug. 17	1485	394	36	755
Vellines, Benton H., Norfolk, Va. Machine for cleaning peanuts	335,402	Feb. 2	440	113	34	520
Vellines, Benton H., Norfolk, Va. Separating-table	339,605	Apr. 6	743	183	35	131
Venell, A. V. (See Orchard, Henry, assignor.)						
Venema, Tjark J., Grand Rapids, Mich. Mixed paint	334,493	Jan. 19	1422	.....	34	277
Venning, George H. (See Palmer, William, assignor.)						
Vent, Henry, Chicago, Ill. Stem winding and setting mechanism	339,246	Apr. 6	194	49	35	37
Verbryck, Samuel A., Belleville, N. J., assignor to J. F. Smith, New York, N. Y. Machine for making flat paint and whitewash brushes	341,189	May 4	301	85, 86	35	560
Verdol, Jules, Paris, France. Jacquard machine	346,877	Aug. 3	539	146, 147	36	565
Verein für Chemische Industrie in Mainz. (See Rumpf, Gustave, assignor.)						
Vermont Farm Machine Company. (See Kimball, Perley L., assignor.)						
Verner, Morris S., assignor to G. Westinghouse, Jr., Pittsburg Pa. Pipe joint and line	345,463	July 13	925	233	36	172
Vernon, Isaiah Great Bridge, Tipton, county of Stafford, England. Steam-engine	345,009	July 6	307	77	36	56
Vernon, Joseph, Avalon, Mo. Cooking apparatus	349,288	Sept. 14	1020	261	36	1240
Vero, Charles, assignor of one-half to J. Everitt, Atherstone, county of Warwick, England. Manufacture of felt hats	351,226	Oct. 19	1601	.....	37	306
Vest, Arthur E., *et al.* (See Fisher, John R. and L. T., assignors.)						
Vestal, Addison F. and C. A. Savoy, Tex. Holder for shades and reflectors	335,788	Feb. 9	998	264	34	626
Vestal, Charles A. (See Vestal, Addison F. and C. A.)						
Vester, Adolph, Providence, R. I. Whip-socket	336,770	Feb. 23	2399	629	34	889
Veteto, George M., Mills, Tex. Car-coupling	337,096	Mar. 2	285	75	34	979
Vetter, Caspar, assignor to H. H. Sulzer, Louisville, Ky. Catch for casting hearth-plate catches and grate-hooks	338,210	Mar. 16	1794	468	34	1265
Vick, Alfred, Mount Carmel, Conn. Velocipede	346,078	July 20	1823	471	36	340
Vick, William H. (See McKown, Edward J., assignor.)						
Vickers, John H. (See Minnitt and Vickers.)						
Vickers, William, Jersey City, N. J. Egg-beater	350,708	Oct. 12	857	231	37	163
Vickery, Charles H., Attica, N. Y. Middlings-purifier	344,021	June 22	1787	460	35	1353
Victor Manufacturing Company. (See Moody, Henry T., assignor.)						
Victor, Walter M., Marinette, Wis. Logging-motor	335,258	Feb. 2	246	65	34	484
Vida, Joseph, West Medford, Mass. Tackle	342,056	May 18	1487	398	35	800
Viele, Platt B., Rochester, N. Y. Locomotive head-light	335,978	Feb. 9	1255	333	34	672
Viele, Platt B., Rochester, N. Y. Locomotive head-light	335,979	Feb. 9	1256	334	34	672
Vigars, Harry P. (See Bailey and Vigars.)						
Villeneuve, Charles, Boise City, Idaho Ter. Horse-power	333,702	Jan. 5	282	77	34	53
Villerot, Louis J., Besançon, France. Wat h pendant and bow	340,467	Apr. 20	1956	502	35	364
Vincent, Auguste, Chateaubriant, France. Machine for finishing textile fabrics	344,334	June 22	2223	572, 573	35	1432
Vincent, William E., assignor to Reynolds Bros., Port Deposit, Md. Soldering-machine	343,508	June 8	1085	272	35	1210
Vincent, William O., New Foundland, Ky. Bee-hive	337,097	Mar. 2	286	76	34	979
Vinnac, Antoine. (See Brislin and Vinnac.)						
Vinson, Michael R., Hope, Ark. Plow	342,483	May 25	2109	557	35	921
Vinson, Peter, assignor of one-half to E. Elliott, Elrod, Ind. Combined fertilizer and insecticide	349,289	Sept. 14	1021	.....	36	1241

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Vinton, John H., Boston, Mass., assignor to Peninsular Novelty Company, Grand Rapids, Mich. Staple-machine	345,404	July 13	928	233, 234	36	172
Vinton, John H., Boston, Mass., assignor to Peninsular Novelty Company, Grand Rapids, Mich. Button-setting machine	346,419	July 27	2304	594	36	440
Vinton, John J., Youngstown, Ohio. Producing steel castings from old steel rails	343,617	June 15	1243	312, 313	35	1247
Violett, Atwood. (See Tabony, Joseph H., assignor.)						
Virgil, Almon K., New York, N. Y., assignor of two-thirds to E. S. Willcox, Peoria, Ill., and G. M. Willcox, New York, N. Y. Exercising device for musicians	344,462	June 29	2400	618	35	1471
Virgil, Almon K., New York, N. Y., assignor of two-thirds to E. S. Willcox, Peoria, Ill., and G. M. Willcox, New York, N. Y. Speaking-spring for musicians' finger-exercising devices	344,463	June 29	2402	619	35	1472
Virgil, Almon K., New York, N. Y., assignor of two-thirds to E. S. Willcox, Peoria, Ill., and G. M. Willcox, New York, N. Y. Exercising key-board for musicians	344,464	June 29	2403	619	35	1472
Virgil, Almon K., New York, N. Y., assignor of two-thirds to E. S. Willcox, Peoria, Ill., and G. M. Willcox, New York, N. Y. Producing speaking-springs	344,465	June 29	2406	619	35	1472
Virnoche, Maxime, San Francisco, Cal. Sad-iron	339,247	Apr. 6	196	49	35	37
Viser, William M., Paducah, Ky. Hedge	344,885	July 6	132	33	36	23
Vitalis, Baptiste, Pittsburg, Pa. Portable platform for smoke-stacks	335,164	Feb. 2	92	25	34	457
Vitrite and Luminoid Company. (See Ball, Clinton M., assignor.)						
Vivon, Edward T., assignor to himself and J. L. Dole, New York, N. Y. Snap-hook	352,669	Nov. 16	1317	355	37	719
Vizet, Victor, New York, N. Y. Stirring and beating machine	350,222	Oct. 5	179	51, 52	37	36
Vizey, William J. (See Bull and Vizey.)						
Vlalvka, Joseph, assignor of one-half to J. M. Galusba and W. M. Mitchell, Newton, Iowa. Water-closet	334,911	Jan. 26	1975	525, 526	34	388
Voegtle, Jacob, assignor to O. Voegtle, Indianapolis, Ind. Furnace-grate	354,523	Dec. 14	1267	339	37	1244
Voegtle, Oscar. (See Voegtle, Jacob, assignor.)						
Voelker, William L., assignor to J. H. Irwin, trustee, Morton, Pa. Dynamo-electric machine or motor	335,325	Feb. 2	332	87	34	501
Voelker, William L., assignor to J. H. Irwin, trustee, Morton, Pa. Dynamo-electric machine and motor	335,326	Feb. 2	334	88	34	501
Voelker, William L., Morton, Pa. Telephone-transmitter	354,818	Dec. 21	1703	451	37	1332
Voester, Gottlob F., Pomona, Cal. Animal-trap	334,096	Jan. 12	839	229	34	163
Vogel, Arie, Lake, Ill. Steam-valve	337,537	Mar. 9	906	231	34	1095
Vogel & Brothers, William. (See Vogel, Henry J., assignor.)						
Vogel, Charles, Fort Lee, N. J. Combined door-check and alarm	337,538	Mar. 9	908	232	34	1095
Vogel, Henry J., assignor to W. Vogel & Brothers, Brooklyn, N. Y. Filler and faucet for cans	341,783	May 11	1118	296	35	724
Vogel, William, Chicago, Ill., assignor to Consolidated Railway Telephone and Signal Company. Signal for railway-crossings	347,752	Aug. 17	1801	480	36	813
Vogel, William, Chicago, Ill., assignor to Consolidated Railway Telephone and Signal Company. Railway-signaling apparatus	347,753	Aug. 17	1804	481	36	814
Vogelsang, A. F. Alexander, Philadelphia, Pa. Game apparatus	333,703	Jan. 5	283	77	34	54
Vogelsang, A. F. Alexander, Philadelphia, Pa. Game apparatus	336,171	Feb. 16	1568	413	34	732
Vogler, Roman, Oberturkheim, Würtemberg, Germany. Electric motor	350,025	Sept. 28	2045	527	36	1452
Vogley, Nicolas, Lyons, France. Glass-beveling machine	340,260	Apr. 20	1675	425, 426	35	311
Vogt, Axel S., Altoona, Pa. Axle-box	352,592	Nov. 16	1204	327	37	699
Vogt & Bro., J. F. (See Simmon, Gustav H. W., assignor.)						
Vogt, Harry V., Millville, N. J. Gage	339,033	Mar. 30	2966	785	34	1485
Vogt, Nicholas H., Goff's, Kans. Cultivator	352,898	Nov. 16	1615	434	37	776
Voigt, Carl H., Pegau, Saxony, Germany. Preparing food for animals	336,965	Mar. 2	107	.....	34	945
Voigt, F. Herman, assignor of one-half to B. Delitsch, Buffalo, N. Y. Device for projecting marbles	336,535	Feb. 16	2070	544	34	822
Voigt, Ferdinand F., Walla Walla, Wash. Ter. Machine for making screw-threads for pipe-joints	333,904	Jan. 5	555	150	34	103
Voigt, Ferdinand F., Walla Walla, Wash. Ter. Machine for making threads on sheet-metal pipes	335,727	Feb. 9	904	238	34	609
Voigt, Max G., Sr., assignor to Metropolitan Wire Nail Manufacturing Company, New York, N. Y. Wire-nail machine	345,745	July 20	1364	355	36	258
Voigt, Max G., Sr., assignor to Metropolitan Wire Nail Manufacturing Company, New York, N. Y. Wire-nail machine	345,746	July 20	1365	355	36	258
Voit, William, Magdeburg, Prussia, Germany. Revolution or stroke counter	351,543	Oct. 26	2087	541, 542	37	401
Volberg, C. C. (See Grisel, George, assignor.)						
Völckner, Carl, Vienna, Austria-Hungary. Apparatus for malting	340,642	Apr. 27	2217	582	35	416
Volke, Charles A., Stapleton, N. Y. Signal-horn	337,098	Mar. 2	287	76	34	980
Volke, Charles A., Stapleton, N. Y. Permutation-padlock	345,340	July 13	752	189	36	141
Vollmar, Johann P. A., Kempten, Hesse, Germany, assignor to B. Budde, New York, N. Y. Prevention of the formation of mold and white film on fermentable or fermented liquids	351,299	Oct. 19	1701	.....	37	323
Vollrath, Andrew J. (See Brand and Vollrath.)						
Vollrath, Andrew J. (See Frambach, Dart, and Vollrath.)						
Vollrath, Ernst H., and J. Hogan, St. Louis, Mo. Mechanism for hinging and locking lids of trunks	342,404	May 25	1999	528	35	901
Voltaic Electric Manufacturing Company. (See Watkins, Henry W., assignor.)						
Voltz, James W., Marion Junction, Ala. Cotton-planter and fertilizer-distributer	353,336	Nov. 30	2246	601	37	910
Volz, Friedrich L., Norway, Iowa. Car-brake	341,079	May 4	142	43	35	531
Vom Eigen, Benno, Newark, N. J. Bag-lock	336,536	Feb. 16	2070	544	34	822
Vom Eigen, Benno, Newark, N. J. Bag or purse catch	344,147	June 22	1970	504	35	1386
Vom Hofe, Julius, Brooklyn, N. Y. Fishing-reel	345,782	June 15	1474	370	35	1267
Von der Linden, Charles, Rhinebeck, N. Y. Folding camp-stool	335,823	Feb. 9	1039	275	34	634
Von der Wülbeike, Henry, Arcata, Cal. Nippers for pile-drivers	350,223	Oct. 5	180	52	37	37
Von Froben, Louis, *et al.* (See Bippus, Ferdinand G., assignor.)						
Von Heyden, F. (See Nencki and Seifert, assignors.)						
Von Heyden, F. (See Schmitt and Kolbe, assignors.)						
Von Heyden, Friedrich. (See Schmitt, Rudolf, assignor.)						
Von Marxow, Ernst F., Vienna, Austria-Hungary. Hæmoglobinometer	353,098	Nov. 23	1913	514	37	841
Von Perger, Hugo, assignor to Society of Chemical Industry, Reichenberg, Bohemia, Austria-Hungary. Production of phenyl-methyl oxyquinicine	348,483	Aug. 31	2855	..	36	1026
Von Schenk, Carl B., Frankfort-on-the-Main, Germany. Window-cleaner	353,472	Nov. 30	2449	653, 654	37	949
Von Stockenstrom, Carl H. (See Johnson, Charles A., assignor.)						
Vondriska, Joseph, Cincinnati, Ohio. Vehicle-spring	349,541	Sept. 21	1379	357	36	1318

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Voorhees, John K., Pella, Iowa. Check-row corn-planter	348,250	Aug. 31	2535	681	36	963
Voorhees, John K., Pella, Iowa. Check-row attachment for corn-planters	351,725	Oct. 26	2348	611	37	449
Voorhies, Cornelius C. (See Otterson and Voorhies.) (Reissue.)						
Voorhis, Calvin, assignor to himself and A. Shenfield, New York, N. Y. Snap-hook for suspender-buckles	345,819	July 20	1407	379	36	276
Voorhis, Calvin, assignor to himself and A. Shenfield, New York, N. Y. Suspender-buckle	347,143	Aug. 10	926	247	36	643
Vorwick, Joseph W., Monmouth, Ill. Two-wheeled vehicle	343,262	June 8	711	176	35	1144
Vosburgh, Henry, Allegan, Mich. Device for hanging picture-frames, &c	351,673	Oct. 26	2289	590	37	436
Vose, Ambrose S., Windsor, Vt. Try and bevel square	345,196	July 6	545	140	36	99
Vose, Clarence, Brooklyn, assignor to Pratt Manufacturing Company, New York, N. Y. Apparatus for refrigerating brine, cooling liquids, and making ice	346,446	July 27	2346	603	36	447
Vose, Clarence, Brooklyn, assignor to Pratt Manufacturing Company, New York, N. Y. Apparatus for cutting up paraffine distillate	346,447	July 27	2350	604	36	448
Vose, Clarence, Brooklyn, assignor to Pratt Manufacturing Company, New York, N. Y. Extracting paraffine from petroleum distillate	346,448	July 27	2352	604	36	448
Vose, George L. (See Lyon and Macomber, assignors.)						
Vose, Richard. (See Cliff, Edward, assignor.)						
Vose, Richard, New York, N. Y. Car-spring	333,983	Jan. 5	665	182	34	125
Vose, Richard, New York, N. Y. Car-spring	347,281	Aug. 10	1109	297	36	677
Vose, Richard, New York, N. Y. Car-spring	318,251	Aug. 31	2537	681	36	963
Vose, Richard, New York, N. Y. Car-spring	349,070	Sept. 14	734	187	36	1185
Vose, Richard, New York, N. Y. Car-spring	350,174	Oct. 5	109	31	37	23
Vose, Richard, New York, N. Y. Car-spring	351,819	Nov. 2	125	35	37	482
Voss, William H., East Stroudsburg, Pa. Cuff-holder or necktie-supporter	344,226	June 22	2082	532	35	1407
Vote, Gus, *et al.* (See Bartels, William H., assignor.)						
Votey, Edwin S., assignor to Whitney Organ Company, Detroit, Mich. Organ-case	348,505	Aug. 31	2888	777	36	1032
Vreeland, Jacob, Saddle River, N. J. Railway-coupling for rails	340,742	Apr. 27	2357	621	35	440
Vulcan Company. (See Kittredge and Leavitt, assignors.)						
Wachholz, Julius, and W. Behrens, St. Louis, Mo. Transom-plate for wagons	341,707	May 11	1030	272 / 273	35	707
Wacker, Andrew, Kingston, N. Y. Ice-velocipede	340,643	Apr. 27	2219	582	35	416
Waddell, Montgomery, Cobourg, Ontario, Canada. Electric-current indicator	353,649	Nov. 30	2726	727	37	999
Waddell, Robert S., Hillsborough, Ohio. Spring-holder for spectacles	349,018	Sept. 14	663	170	36	1172
Wade, Arthur E., Parkville, Ill. Grain-weighing apparatus	344,148	June 22	1972	504	35	1386
Wade, James, Dana, Ind. Striping-instrument	342,484	May 25	2110	557	35	921
Wade, Lanslatt D., Puyallup, Wash. Ter. Gate	348,433	Aug. 31	2781	748	36	1012
Wade, Oron W., Cave Spring, Mo. Device for releasing horses from harness and vehicles	334,097	Jan. 12	840	229 / 230	34	163
Wade, William, assignor of two-thirds to N. Neff, Trenton, and F. H. Seymour, Detroit, Mich. Valve	345,197	July 6	547	140	36	100
Wadleigh, George C. (See Knipe and Wadleigh.)						
Wadleigh, Isaac H., *et al.* (See Earnshaw, John, assignor.)						
Wadsworth, Francis, and H. N. Prentice, Venice, Ohio. Grain-separator	334,312	Jan. 12	1168	313	34	225
Wadsworth, Joseph, Paterson, N. J. Swivel-loom	338,891	Mar. 30	2759	727	34	1448
Wagendt, Charles L., assignor to G. V. Keen, J. S. and J. R. Hagerty, Baltimore, Md. Machine for soldering the handles to tin cans	353,275	Nov. 23	2161	578	37	889
Waggershauser, Fredrich, Chicago, Ill. Producing medicinal wine	344,227	June 22	2082	.....	35	1407
Wagner, Anton, Philadelphia, Pa. Apparatus for measuring the focal lengths of lenses	342,149	May 18	1615	433	35	825
Wagner, Fred J., Kirwin, Kans. Windmill	344,886	July 6	133	33	36	24
Wagner, Henry J., Dayton, Mo. Churn	347,978	Aug. 24	2140	570	36	883
Wagner, Herman, *et al.* (See Stone, James R., assignor.)						
Wagner, John. (See Ackermann and Wagner.)						
Wagner, John, Detroit, Mich. Bread-knife	343,509	June 8	1086	272	35	1211
Wagner, John A., Middletown, Ohio. Steam-excavating process of sinking wells, &c	342,274	May 18	1786	473	35	856
Wagner, Martin V. (See Baldwin, Charles E., assignor.)						
Wagner, Michael. (See Bloemker, Frank H., assignor.)						
Wagner, Michael, assignor of one-half to C. Heinfelden, Belleville, Ill. Thill-coupling	337,463	Mar. 9	815	206	34	1079
Wagner, William H. (See Woodruff and Wagner.)						
Wagner, William R., *et al.* (See Eddington, Frank G., assignor.)						
Wagoner, Milton H., *et al.* (See Kyle, Edward E., assignor.)						
Wahl, William C., Buffalo, N. Y. Door-hanger	351,947	Nov. 2	317	88	37	516
Wahler, George, Chicago, Ill. Traveling bag or satchel	344,696	June 29	2714	705	35	1531
Wahler, George H., Littlestown, Pa. Tool-handle	337,464	Mar. 9	816	206	34	1079
Wahler, George H., and L. H. Leber, Littlestown, Pa., assignors to said Leber. Coin-counter	340,392	Apr. 20	1857	477	35	346
Wahlert, Henry, assignor of one-half to L. Ahsendorff, Freeport, Ill. Cork-extractor	337,465	Mar. 9	817	206	34	1079
Wahlert, Henry A., assignor to American Brake Company, St. Louis, Mo. Bolt	339,951	Apr. 13	1221	303	35	224
Wahlert, Henry A., assignor to American Brake Company, St. Louis, Mo. Locomotive-brake	347,017	Aug. 10	741	197	36	609
Wahlert, Henry A., assignor to American Brake Company, St. Louis, Mo. Locomotive-brake	347,407	Aug. 17	1300	346	36	721
Wahlert, Henry A., assignor to American Brake Company, St. Louis, Mo. Automatic car-brake	351,139	Oct. 19	1485	389	37	284
Wahmhoff, Frank B., Delphos, Ohio. Sled-runner	344,697	June 29	2715	705	35	1531
Wahrmund, Charles, Jr., Fredericksburg, Tex. Combined wheel cultivator and plow	354,956	Dec. 28	1900	501	37	1381
Wailes, John W. (See Hackney and Wailes.)						
Wainwright, Jacob T., Allegheny, Pa. Reducing unsmelted or partly-smelted ore	350,574	Oct. 12	668	182	37	128
Wainwright, Jacob T., Allegheny, Pa. Making glass and vitreous or porcelaneous products	351,413	Oct. 26	1899	494	37	364
Wainwright Manufacturing Company. (See Duffy, Thomas W., assignor.)						
Wais, Christian, Cambridge City, assignor to C. A. and J. J. Bertsch, Wayne County, Ind. Metal-shearing machine	353,041	Nov. 23	1831	492	37	823
Wait, Oscar E., Springfield, Vt. Spool	350,224	Oct. 5	182	52	37	37
Wait, Oscar E., assignor to P. W. Gould, Springfield, Vt. Spool or bobbin	344,928	July 6	185	47	36	35
Wait, Washington L., Greenville, S. C. Car-coupler	341,190	May 4	302	86	35	560
Waite, Charles N., Medford, Mass. Mordant	341,294	May 4	464	.....	35	589
Waite, Charles N., Medford, Mass. Compound for preparing starch or flour size for yarn, textile, or other fabrics	351,890	Nov. 2	227	.....	37	500
Waite, Charles N., assignor of one-half to J. Morrison, Medford, Mass. Marking-crayon	346,002	July 20	1724	.....	36	322
Waite, Enoch, Franklin, Mass. Packing for car-axle boxes	336,966	Mar. 2	108	30	34	945
Waite, Henry E., *et al.* (See Ethridge, Martin V. B., assignor.)						
Waite, James H. (See Peck, Joseph W., assignor.)						
Waite, James N., Hartford, Conn. Centering-tool	352,169	Nov. 9	669	178	37	588

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Waite, James N., assignor to Pope Manufacturing Company, Hartford, Conn. Velocipede	345,465	July 13	929	234	36	172
Waitt, George L., Philadelphia, Pa. Bottle-stopper	342,057	May 18	1488	398	35	800
Wakefield, Caleb, Brady, Pa. Compressor	349,542	Sept. 21	1379	358	36	1318
Wakefield, John A., Plano, Iowa. Appliance for moving, raising, and supplying water	342,405	May 25	2062	528	35	901
Wakefield, Lewis, Minneapolis, Minn. Steam plowing-machine	339,236	Apr. 6	174	45, 46	35	33
Wakefield Rattan Company. (See Trow, Charles W., assignor.)						
Wakely, William, Taunton, Mass. Sheet-metal cleaning, washing, and drying machine	352,986	Nov. 23	1744	467	37	808
Wakeman, Archer, Cape Vincent, N. Y. Bait for catching fish	339,952	Apr. 13	1222	304	35	224
Wakeman, Bryan S., Batavia, assignor of eleven-twentieths to S. E. Tucker, Albany, N. Y. Can-opener	338,211	Mar. 16	1795	468	34	1265
Walbridge, John H., *et al.* (See Stepp, John P., assignor.)						
Walch, Philipp. (See Wassung, William, assignor.)						
Walcher, Simeon M., Louisburg, Kans. Washing-machine	350,175	Oct. 5	111	31, 32	37	23
Walcher-Uysdal, Rudolf Ritter v., Teschen, Austria-Hungary. Barometer for indicating fire-damp	341,822	May 11	1127	313, 314	35	735
Waldbaur, Adolf, Augsburg, Bavaria, Germany. Centrifugal machine	343,932	June 15	1656	425	35	1324
Waldecker, Henry C., Austin, Minn. Safety-lock for fire-arms	338,451	Mar. 23	2131	557	34	1362
Walden, Frank D. (See Shaw and Walden.)						
Waldo, Leonard, New Haven, Conn., assignor to L. G. Tillotson & Co., New York, N. Y. Volt-ampère meter	338,120	Mar. 16	1678	436	34	1242
Waldorf, George M. (See Kochsmeier and Waldorf.)						
Waldorf, M. V. B. (See Fowler, Forman F., assignor.)						
Waldman, Simon L., Boston, assignor of one-half to J. Webster, Chelsea, Mass. Locking device for buckles	352,103	Nov. 2	543	144	37	560
Waldron, Charles F. (See Beebee, Henry, assignor.)						
Waldron, Cornelius J., Medusa, N. Y. Hoisting-machine	333,574	Jan. 5	106	29	34	23
Waldron, John, New Brunswick, N. J. Machine for winding paper and other fabrics	352,722	Nov. 16	1387	375, 376	37	733
Waldron, Willard A., assignor of one-half to J. S. Julien, Bay City, Mich. Clothes-drier	343,555	June 8	1146	289	35	1222
Waldstein, M. E., *et al.* (See Müller, Armand, assignor.)						
Wales, Arthur, Minneapolis, Minn. Mechanical musical instrument	339,237	Apr. 6	175	46	35	33
Wales, Harriot H. (See Wales, Sigourney, assignor.)						
Wales, Harry A., Bridgeport, Conn. Artificial ear-drum	335,660	Feb. 9	801	213	34	591
Wales, Sigourney, assignor to H. H. Wales, Cambridge, Mass. Connection for belts, bands, &c.	348,871	Sept. 7	446	119	36	1130
Wales, Sigourney, assignor to H. H. Wales, Cambridge, Mass. Garment-supporter	348,873	Sept. 7	449	119	36	1130
Wales, Sigourney, assignor, by mesne assignments, to H. H. Wales, Cambridge, Mass. Clasp for supporting articles	348,872	Sept. 7	447	119	36	1130
Wales, Sigourney, assignor, by mesne assignments, to H. H. Wales, Cambridge, Mass. Blotting-pad	352,170	Nov. 9	670	178	37	588
Wales, Walter H., assignor to himself and C. E. Robinson, Providence, R. I. Buckle	336,502	Feb. 16	2022	531	34	814
Walk, Jacob M., Osnaburg, and C. R. Foster, Cleveland, Ohio; said Foster assignor to said Walk. Fence-post	348,874	Sept. 7	450	120	36	1130
Walker, Abraham B., assignor to A. L. Walker, Orangeburg, S. C. Quilting-frame	353,042	Nov. 23	1833	493	37	824
Walker, Alford H. (See Masterman, William H., assignor.)						
Walker, Alfred O., Leadworks, county of Chester, England. Depositing solid particles suspended in air or gas	342,548	May 25	2204	584	35	938
Walker, Ancil W., assignor of one-half to C. E. Bird, Douglas, Mich. Folding crate	354,846	Dec. 21	1735	460	37	1338
Walker, Annie L. (See Walker, Abraham B., assignor.)						
Walker, Austin G. (See Walker, Randall W. and A. G.)						
Walker, Chauncy H., Sandy Lake, Pa. Soap	337,035	Mar. 2	208	.....	34	963
Walker, David, Newark, N. J. Stair-rod securer	351,227	Oct. 19	1602	420	37	306
Walker, Edwin R. (See Walker, John S., T. A., and E. R.)						
Walker, Esther. (See Walker, Robert B., assignor.)						
Walker, Farmer G., *et al.* (See Palson, Magnus J., assignor.)						
Walker, Francis H., Chicago, Ill. Folding spring bed-lounge	334,549	Jan. 19	1501	401, 402	34	290
Walker, Francis H., Chicago, Ill. Folding bed-lounge	334,550	Jan. 19	1502	402	34	290
Walker, George D., assignor of one-half to M. J. Kelley, Holyoke, Mass. Device for fastening, opening, and holding doors for fire-engine houses	340,743	Apr. 27	2357	621	35	440
Walker, George S., Helena, Mont. Ter. Register for flour-packers	342,406	May 25	2003	528	35	901
Walker, George W., Malden, Mass. Loop-pipe for radiators	353,900	Dec. 7	360	96	37	1073
Walker, Hay, Jr., trustee, *et al.* (See Graham, William H., assignor.)						
Walker, Henry A., London, county of Middlesex, England. Window-shade roller	353,182	Nov. 23	2036	544	37	865
Walker, Henry G., New York, N. Y. Double-acting rock-drill	354,957	Dec. 28	1902	501	37	1381
Walker, Herrman M., Kenton, Ohio. Metallic fence	341,969	May 18	1366	365	35	778
Walker, James, and H. T. Caulk, Iantha, Mo. Sickle-driver attachment for mowing-machines	334,828	Jan. 26	1871	498	34	368
Walker, James F., Brandenburg, Ky. Bee-hive	343,212	June 8	635	158	35	1131
Walker, James G., Hudson, N. H. Roll-box top	354,377	Dec. 14	933	246	37	1182
Walker, James R., Detroit, Mich. Spring-gear for vehicles	342,150	May 18	1616	433	35	825
Walker, John, Cleveland, Ohio. Tool-holder	336,362	Feb. 16	1841	482	34	781
Walker, John, Cleveland, Ohio. Shaft-hanger attachment	342,485	May 25	2112	558	35	921
Walker, John, Cleveland, Ohio. Lubricating mechanism for journal-boxes	342,486	May 25	2113	558	35	922
Walker, John, Cleveland, Ohio. Mold for castings	343,872	June 15	1584	403	35	1309
Walker, John, Cleveland, Ohio. Roller-mill	347,667	Aug. 17	1692	450, 451	36	793
Walker, John, Cleveland, Ohio. Traveling crane	353,612	Nov. 30	2656	710, 711	37	988
Walker, John S., T. A., and E. R., Wigan, county of Lancaster, England. Rotary fan apparatus	353,994	Dec. 7	499	135	37	1097
Walker, John S., T. A., and E. R., Wigan, county of Lancaster, England. Air-valve	353,995	Dec. 7	500	135	37	1097
Walker, John W., Florence, Ala. Cotton-basket	338,892	Mar. 30	2763	727	34	1449
Walker, Leverett B., St. Johns, Mich. Planter	348,801	Sept. 7	352	96	36	1113
Walker, Louis N., assignor to E. Remington & Sons, Ilion, N. Y. Breech-loading gun	354,452	Dec. 14	1159	310	37	1225
Walker, Malcom, and E. Miner, Yankton, Dak. Ter. Portable brick-hack. (Reissue)	10,694	Feb. 23	2565	677	34	920
Walker, Mary E., Oswego, N. Y. Indicating orthography	340,837	Apr. 27	2479	652, 653	35	463
Walker, Miciah, Port Huron, Mich. Shut-off box	343,933	June 15	1658	425	35	1324
Walker, Miciah, Port Huron, Mich. Boiler-furnace	354,754	Dec. 21	1620	429	37	1315
Walker, Peter. (See Prentiss and Walker.)						
Walker, Randall W., Oxford, N. Y. Guard-finger	346,568	Aug. 3	148	40	36	489
Walker, Randall W., and J. L. Beardsley, Oxford, N. Y. Thill-coupling	334,494	Jan. 19	1422	383	34	277
Walker, Randall W. and A. G., Oxford, N. Y. Toy breech-loading gun	344,698	June 29	2716	706	35	1531

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Walker & Rhemberg. (See Wilcox, Stephen C., assignor.)						
Walker, Robert, Harrisville, Ohio. Neck-yoke attachment	345,557	July 13	1084	277	36	201
Walker, Robert B., assignor to E. Walker, New Antioch, Ohio. Device for curing chickens of the gapes	343,145	June 1	536	136	35	1104
Walker, Robert O., deceased, S. Walker, New York, N. Y., administratrix. Seal-lock	353,099	Nov. 23	1916	514	37	841
Walker, Sophronia, administratrix. (See Walker, Robert O.)						
Walker, Theodore C., Penfield, and W. E. Crayton, Lima, Ohio. Folding book rest and stand	334,313	Jan. 12	1169	313	34	225
Walker, Thomas, Philadelphia, Pa. Damper-regulator	339,504	Apr. 6	560	135	35	103
Walker, Thomas A. (See Walker, John S., T. A., and E. R.)						
Walker, Thomas F., Birmingham, county of Warwick, England. Ship's log	351,140	Oct. 19	1487	390	37	285
Walker, Thomas G., Morristown, N. J. Separating sulphate of lime from saline solutions	337,900	Mar. 16	1368	355	34	1185
Walker, Thomas G., Morristown, N. J. Process of drying	347,846	Aug. 24	1944	516	36	849
Walker, William, Weimar, Tex. Combined corn and cotton planter	353,473	Nov. 30	2450	654	37	949
Walker, William, Luton, county of Bedford, England. Sewing-machine	333,720	Dec. 7	101	27	37	1025
Walker, William A., Racine, Wis. Refrigerator	343,873	June 15	1585	403, 404	35	1309
Walker, William C., assignor of two-thirds to S. J. Dibble and P. R. Lostutter, Patriot, Ind. Machine for making wire-and-picket fences	347,668	Aug. 17	1693	451	36	793
Walker, William E., G. E. Wilbur, Taunton, and B. W. Felton, Boston, Mass.; said Walker and Wilbur assignors of one-fourth to said Felton. Furnace-damper	344,509	June 29	2477	636, 637	35	1485
Walker, William F., Chicago, Ill. Safety-valve	347,913	Aug. 10	1021	272	36	661
Walker, William L., Brooks, Cal. Draft-pole for vehicles	336,180	Feb. 16	1569	413	34	732
Walker, William L., Brooks, Cal. Shaft for two-wheeled vehicles	346,624	Aug. 3	222	61	36	503
Walker, William V., Moravia, N. Y. Harrow	352,017	Nov. 2	418	113	37	536
Walker, William W., Tuebrook, county of Lancaster, England. Tobacco-pouch	347,669	Aug. 17	1694	451	36	794
Walker, Zechariah, and J. M. Smith, Trenton, N. J. Adjustable flower-stand	341,191	May 4	303	86	35	560
Wall, Charles P. (See Cawley and Wall.)						
Wall, Charles W. (See Schumacher, Joseph G., assignor.)						
Wall, Edward B. (See Harrington, Samuel H., assignor.)						
Wall, Enos A. (See Dunne, Daniel, assignor.)						
Wall, Enos A., Bullion, Idaho Ter. Pulverizing-mill	337,901	Mar. 16	1369	355	34	1185
Wall, John C., assignor of one-half to J. F. Wall, Amsterdam, N. Y. Automatic grinder for woolen and cotton cards	347,847	Aug. 24	1945	516	36	849
Wall, John F. (See Wall, John C., assignor.)						
Wall, Joseph, Bootle, county of Lancaster, England. Night signaling apparatus	335,489	Feb. 2	557	146	34	541
Wall, Stephen A. (See Hardy and Wall.)						
Wallace, Albert E., assignor to Pope Manufacturing Company, Hartford, Conn. Wheel for velocipedes	334,829	Jan. 26	1872	498	34	368
Wallace, Alexander. (See Duncan, Robert D., assignor.)						
Wallace, Alexander. (See Duncan and Wallace.)						
Wallace, Frank A. (See Hall, Frederick J., assignor.)						
Wallace, George W., Canandaigua, N. Y. Stove-hood	346,694	Aug. 3	307	84	36	521
Wallace, Hamilton, White Haven, Pa. Perforating-machine	348,434	Aug. 31	2783	748	36	1013
Wallace, Hugh, Richmond, Ohio. Car-coupling	340,261	Apr. 20	1677	426	35	311
Wallace, John C., Corsicana, Tex. Guard for gin-saws	350,026	Sept. 28	2046	528	36	1452
Wallace, Levi D., East Springfield, Ohio. Feed-ra k	344,426	June 29	2361	608	35	1465
Wallace Manufacturing Company. (See Wallace, William W., assignor.)						
Wallace, Oren E., Columbus, Ohio, assignor to Merino Shoe Company, Kennebunk, Me. Process of and apparatus for making felt boots, shoes, and stockings	342,943	June 1	243	62	35	1050
Wallace, Robert, Wallingford, Conn. Salt or pepper dredge	352,376	Nov. 9	932	250	37	639
Wallace, Sanford D. (See Carter and Magill, assignors.)						
Wallace & Sons. (See Bryant, Edson L., assignor.)						
Wallace, Thomas, and O. A. En Holm, New York, N. Y. Microphone	353,337	Nov. 30	2247	601	37	911
Wallace, William V., Boston, Mass. Air-moistening apparatus for factories	335,403	Feb. 2	441	113, 114	34	520
Wallace, William W., assignor to Wallace Manufacturing Company, Frankfort, Ind. Pug-mill	338,121	Mar. 16	1679	436	34	1242
Wallenbeck, Edward. (See Wallenbeck, George and E.)						
Wallenbeck, George and E., Willow Creek, N. Y. Windmill	353,721	Dec. 7	103	28	37	1025
Walling, Ella, Washington, D. C. Fire-place or stove-fender	344,294	June 22	2177	558	35	1423
Wallinger, Karl, New York, N. Y. Bracelet-clasp	354,278	Dec. 14	934	246	37	1182
Wallis, Joseph E. (See Tull, Kuehn, and Beers, assignors.)						
Wallis, Reve P., Oakland, Cal. Flexible lead-pencil	337,466	Mar. 9	818	.....	34	1080
Walls, Frank T. (See Foreman and Walls.)						
Walls, James T., Butler, Mo. Filter	342,151	May 18	1617	433	35	825
Walls, M. Clinton, Clayton, Ind. Extension-ladder	353,722	Dec. 7	105	28	37	1025
Walmsley, Robinson, Fall River, Mass. Spinning-machine	334,830	Jan. 26	1873	499	34	369
Walp, James, Lehighton, Pa. Steam-generator	353,996	Dec. 7	502	136	37	1097
Walrath, Austin, Nevada City, Cal. Paving, roofing, and building compound	342,852	June 1	105	.....	35	1025
Walrath, Jesse, assignor to J. I. Case Thrashing Machine Company, Racine, Wis. Furnace-grate	347,214	Aug. 10	1022	272	36	661
Walsh, Edward, Jr., St. Louis, Mo. Rolling plate-glass	346,695	Aug. 3	308	84, 85	36	521
Walsh, George, and J. Boothroyd, Philadelphia, Pa. Mechanical movement	351,228	Oct. 19	1603	421	37	306
Walsh, James, Jr., Philadelphia, Pa. Valve	334,314	Jan. 12	1170	313	34	225
Walsh, James, Jr., Philadelphia, Pa. Stop valve	334,315	Jan. 12	1171	314	34	225
Walsh, James M., and C. G. Smith, Taylorsville, Cal. Adjustable connection for brake-beams	346,333	July 27	2182	560	36	417
Walsh, John, New York, N. Y. Beer-faucet	352,964	Nov. 23	1710	459	37	802
Walsh, John D., Covington, Ky. Extension book-case	348,252	Aug. 31	2538	681	36	963
Walsh, Ralph, Washington, D. C. Capsule-filling machine	346,964	Aug. 10	664	177	36	596
Walsh, Richard, and S. J. Martin, Detroit, Mich. Cut-off or waste valve	335,404	Feb. 2	443	114	34	520
Walsh, Thomas P., Springfield, Mass. Head-staying device for casks	355,039	Dec. 28	2013	530	37	1401
Walsh, Thomas P., Springfield, Mass. Attaching heads to barrels	355,040	Dec. 28	2014	530	37	1401
Walsh, William. (See Serson, James, assignor.)						
Walsworth, Newel J., Syracuse, N. Y. Folding settee	342,886	June 1	157	40	35	1034
Walter, Adolph, Fremont, Ohio. Buggy-top joint	345,398	July 13	833	209	36	155
Walter, Adolph, Fremont, Ohio. Die for forging shifting-rails	353,100	Nov. 23	1918	514	37	841
Walter, Anton W., Canton, Ohio. Metal roofing	345,089	July 6	404	102	36	74
Walter, Charles, *et al.* (See Phelps, Ira M., assignor.)						
Walter, Charles, Brooklyn, N. Y. Hand-truck	345,090	July 6	405	102	36	74
Walter Electric Company. (See Walter, Hugo, assignor.)						
Walter, George F., Caledonia, Iowa. Clevis	342,887	June 1	158	40	35	1034

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Walter, Hamilton F., York, Pa. Shaft-tug	347,670	Aug. 17	1695	451	36	794
Walter, Henry E. (See Batchelor and Walter.)						
Walter, Henry E., Clifton, assignor of one-half to C. Batchelor, New York, N. Y. Dynamo-electric machine	351,544	Oct. 26	2089	542	37	402
Walter, Hugo, Cincinnati, Ohio. Electric motor	351,229	Oct. 19	1605	421	37	307
Walter, Hugo, assignor to Walter Electric Company, Cincinnati, Ohio. Galvanic battery	342,407	May 25	2004	529	35	902
Walter, Isaac W., Newberry, S. C. Churn	339,505	Apr. 6	561	135	35	104
Walter, John. (See Cusack, William H., assignor.)						
Walter, John M., *et al.* (See Acheson, Nathan B., assignor.)						
Walter, John T., Easton, Pa. Eccentric for operating screens of middlings-purifiers	347,848	Aug. 24	1946	517	36	850
Walter, Robert F., Peoria, Ill. Barber's pole	334,912	Jan. 26	1976	526	34	388
Walter, Willie C., assignor of two-thirds to G. B. Adams, Richmond, Va. Bed-clothes securer	333,905	Jan. 5	558	150	34	104
Walter, Willie C., assignor of two-thirds to G. B. McAdams, Richmond, Va. Fire-alarm indicator	334,399	Jan. 12	1280	345, 346	34	244
Walter, Willie C., West Point, assignor of one-half to G. B. McAdams and R. Hill, Richmond, Va. Cut-out for electric-arc lamps	354,847	Dec. 21	1736	430	37	1339
Walter, William P., Newton, Kans. Flue thimble and stopper	348,435	Aug. 31	2784	748	36	1013
Walters, Alfred, assignor of one-half to P. Collins, Averit, La. Churn	347,849	Aug. 24	1947	517	36	850
Walters, Daniel, Dayton, Ohio. Pressing and dampening machine	336,786	Oct. 12	966	259	37	183
Walters, Eugene A., and H. L. Ayres, Walworth, Wis. Clevis	340,838	Apr. 27	2179	653	35	463
Walters, George W., Deer Lodge, Mont. Ter. Gate	351,141	Oct. 19	1491	390	37	285
Walters, James P., Rosedale, Ind. Governor-valve	342,275	May 18	1787	473	35	856
Walther, Annie, and M. Supple, Fond du Lac, Wis. Garment-fastening	340,644	Apr. 27	2220	582	35	417
Walther, Charles W., Seymour, Conn. Charging-spoon for brazing tubes	351,545	Oct. 26	2090	543	37	402
Walther, Charles W., Seymour, Conn. Preparing solder for brazing	351,546	Oct. 26	2091	.....	37	402
Walther, Henry, assignor to himself and L. Joyner, Clinton, Ind. Lifting-jack	335,859	Feb. 9	1087	287	34	644
Walther, Hugo. (See Walther, Richard and H.)						
Walther, John, Brooklyn, N. Y., assignor to C. B. Cottrell, Stonington, Conn. Sheet-delivery apparatus for printing-machines	348,075	Aug. 24	2275	609	36	909
Walther, Richard and H., Werdau, Saxony, Germany. Electric-arc lamp	338,122	Mar. 16	1681	436, 437	34	1242
Waltjen, William H., and J. H. Keller, Baltimore, Md. Refrigerator	335,327	Feb. 2	337	88	34	502
Walton, Charles E., Tuscarawas, assignor of one-half to R. W. Walton, Urichsville, Ohio. Stanchion	344,553	June 29	2538	656	35	1496
Walton, Edward, Cartersville, Va. Tobacco-drier	340,468	Apr. 20	1958	503	35	364
Walton, Frederick, Heatham House, Twickenham, county of Middlesex, England. Manufacture of oxidized or solidified oil	354,755	Dec. 21	1620	429	37	1315
Walton, George J., Powhatan Point, Ohio. Car-coupling	349,543	Sept. 21	1380	358	36	1319
Walton, George L., Bougere, La. Car coupling	347,537	Aug. 17	1486	394	36	755
Walton, Isaac N. (See Holt and Walton.)						
Walton, James. (See Forstner, Benjamin, assignor.)						
Walton, John, Philipsburg, Pa. Coal-mining machine	355,284	Dec. 28	2368	622	37	1471
Walton, Richard, Altoona, assignor of one-half to H. Reed, Philadelphia, Pa. Balanced slide-valve	351,547	Oct. 26	2092	543	37	402
Walton, Rufus W. (See Walton, Charles E., assignor.)						
Walton, Thomas, Newton le Willows, county of Lancaster, England. Apparatus for manufacturing glass tumblers	346,181	July 27	1965	506, 507	36	376
Walton, Thomas H., Ashland, assignor of one-half to J. W. Coulston, Philadelphia, Pa. Mining-drill	333,798	Jan. 5	415	112	34	78
Walton, William, Brooklyn, N. Y. Apparatus for manufacturing heating-vapors	353,276	Nov. 23	2162	578	37	889
Waltz, George W., assignor of one-half to S. R. Berringer, Blissfield, Mich. Roofing	344,228	June 22	2084	533	35	1407
Walworth, Arthur C., Boston, Mass. Air-valve for radiators	345,747	July 20	1366	355	36	258
Walworth Manufacturing Company. (See Shaw, Harry M., assignor.)						
Walzer, Justin, Chaux-de-Fonds, Switzerland. Game attachment for watches	348,645	Sept. 7	154	43	36	1075
Wambold, Jacob W., *et al.* (See Hayes, Miles T., assignor.)						
Wandell, Wilber S., Vicksburg, Mich. Heater and condenser for steam force-pumps	347,215	Aug. 10	1023	252	36	661
Wands, John C., St. Louis, Mo. Apparatus for making gas	335,405	Feb. 2	444	114, 115	34	520
Wanenmacher, Conrad G., Buffalo, N. Y. Wrench and lock combined	344,427	June 29	2362	608	35	1465
Wang, Jens A., Alpena, Mich. Pantograph	350,027	Sept. 28	2046	528	36	1452
Wangsnes, Ole S. (See Goetzenberger and Wangsnes.)						
Wanner & Fevrot. (See Fevrot, Claude M., assignor.)						
Wanneveich, Frederic, Saint Denis, Seine, France. Pulverizing-mill	350,225	Oct. 5	183	52	37	37
Warburton, George, assignor of one-half to J. F. Reddy, Philadelphia, Pa. Cable railway	353,183	Nov. 23	2037	544, 545	37	865
Ward, Alexander F., Detroit, Mich. Hoop-coiling machine	349,243	Sept. 14	970	248	36	1230
Ward, Alexander F., Detroit, Mich. Feed-water heater	352,377	Nov. 9	933	250	37	639
Ward, Alexander F., and G. Mead, Detroit, Mich. Elevator	355,285	Dec. 28	2369	623	37	1472
Ward, Amelia H., Springfield, Mass. Book and music holder	340,839	Apr. 27	2481	653	35	463
Ward, Andrew D., Augusta, Me. Wrench	352,433	Nov. 9	1062	270	37	653
Ward, Anthony, Brooklyn, N. Y. Cap	338,003	Mar. 16	1523	394	34	1212
Ward, Anthony, Brooklyn, N. Y. Whale-shaped museum-building	339,828	Apr. 13	1058	262, 263	35	193
Ward, Anthony, Brooklyn, N. Y. Musical cigar show-box	342,986	June 1	290	76	35	1059
Ward, Anthony, assignor to A. G. Jennings & Sons, Brooklyn, N. Y. Knitting-machine	346,182	July 27	1967	507	36	377
Ward, Benjamin P. (See Clark, Henry D., assignor.)						
Ward, C. E. (See Maynard, John M., assignor.)						
Ward, Clarence, Haring, Mich. Saw-swage	352,670	Nov. 16	1318	355	37	719
Ward & Curley. (See McHugh, Timothy, assignor.)						
Ward, Cyrus J. (See Johnson, John H., assignor.)						
Ward, Edward F., Grand Rapids, Mich. Heating apparatus	348,602	Sept. 7	97	28	36	1065
Ward, James W. (See Hughes, Frank G., assignor.)						
Ward, James W., and G. P. Sylvester, Galt, Ontario, Canada. Syringe	334,316	Jan. 12	1171	314	34	225
Ward, John D., Rochester, N. Y. Thermometer	336,181	Feb. 16	1571	413	34	733
Ward, John F., Jersey City, N. J. Splice for metal beams or rails	335,165	Feb. 2	93	25	34	457
Ward, John H. R., Stoughton, Mass., and W. J. Jenks, New York, N. Y., assignors to New England Wiring Company, Boston, Mass. Electric lighting system	342,549	May 25	2205	584	35	938

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ward, Juliett T. (See Mack and Ward.)						
Ward, La Fayette, deceased. (See Mack and Ward, executors.)						
Ward, Matthew P., assignor of part to D. C. Haas and W. H. Montelius, Mount Carmel, Pa. Try-square	351,820	Nov. 2	126	35	37	482
Ward, Moses N., assignor of one-half to Z. Ward, Vicksburg, Mich. Bee-hive	334,914	Jan. 26	1978	527	34	388
Ward, Philip R., Quincy Ill. Saw-swaging device	350,853	Oct. 12	1068	285 / 286	37	201
Ward, Robert, Lawrence, Mass. Parasol-holder for children's carriages	336,363	Feb. 16	1841	483	34	781
Ward, Seth, Princeton, Ind. Back-band hook	337,215	Mar. 2	442	115	34	1008
Ward, Thomas H, Tipton, county of Stafford, England. Balanced valve	333,799	Jan. 5	415	112 / 113	34	78
Ward, Thomas H., Tipton, county of Stafford, England. Differential pulley-block	336,364	Feb. 16	1842	483 / 484	34	781
Ward, Thomas H., Tipton, county of Stafford, England. Valve for steam-engines	338,004	Mar. 16	1523	394 / 395	34	1212
Ward, Thomas H., Tipton, county of Stafford, England. Weighing and indicating apparatus	342,550	May 25	2206	584 / 585 / 586	35	938
Ward, Thomas M., *et al.* (See Rogers and Roan, assignors.)						
Ward, Wallace. (See Spencer, Henry P., assignor.)						
Ward, William E., Port Chester, N. Y. Bolt-blank machine	341,970	May 18	1367	365	35	778
Ward, William E, Port Chester, N. Y. Bolt-blank machine	341,971	May 18	1369	365 / 366	35	779
Ward, William E., Port Chester, N. Y. Nut-tapping machine	341,972	May 18	1371	366	35	779
Ward, William E., Port Chester, N. Y. Machine for forming nut-blanks	353,901	Dec. 7	361	96	37	1073
Ward, William E., Port Chester, N. Y. Bolt-dressing machine	353,902	Dec. 7	363	97	37	1073
Ward, William H. (See Pearson, Fred S., assignor.)						
Ward, William J., Pittsburg, Pa. Furnace for burning natural gas	342,487	May 25	2114	558 / 559	35	922
Ward, Zenas. (See Ward, Moses N., assignor.)						
Warden, Henry, Philadelphia, Pa. Punching-machine table	336,677	Feb. 23	2284	597	34	866
Warden, Henry, Philadelphia, Pa. Surface-condenser	352,378	Nov. 9	936	250	37	640
Warden, Henry, Philadelphia, Pa. Feed-water heater	352,379	Nov. 9	937	251	37	640
Warden, Henry, Philadelphia, Pa. Tube-sheet for steam-boilers, &c	352,380	Nov. 9	938	251	37	640
Wardwell, Claison S., Stamford, Conn. Pulley	334,998	Jan. 26	2085	557	34	407
Wardwell, Frank A., Methuen, Mass. Cane-gun	349,864	Sept. 28	1830	473	36	1412
Wardwell, S. W., Jr. (See Lewis, Everitt C., assignor.)						
Wardwell, Simon W., Jr., *et al.* (See Booth, John, assignor.)						
Wardwell, Simon W., Jr., Woonsocket, R. I. Table extension-leaf	340,176	Apr. 20	1548	391	35	288
Wardwell, William S., Rutland, Vt., assignor to G. Frost, G. H. Phelps, and G. A. Frost, West Newton, Mass. Garter. (Reissue)	10,783	Nov. 16	1631	438	37	780
Ware, Theodore E., Clifton, Bristol, county of Gloucester, England. Bicycle-bell	334,495	Jan. 19	1423	383	34	278
Ware, Walter F., Camden, N. J. Nursing-bottle	347,018	Aug. 10	742	197	36	610
Wareing, Henry B. (See Schallehn, Henry, assignor.)						
Warfield, Oliver D. (See Stevens and Warfield.)						
Waring, Charles W., Wrightsville, Ark. Traction-wheel	345,342	July 13	754	190	36	142
Waring, Clara K., Middletown, assignor to J. C. Battersby, New York, N. Y. Portable folding wardrobe	347,308	Aug. 10	1157	310	36	686
Waring, George E., Jr., Newport, R. I., assignor to Drainage Construction Company, Boston, Mass. Siphon and outlet or weir chamber for flush-tanks	336,182	Feb. 16	1572	415	34	733
Waring, John T., Yonkers, N. Y. Preparation of animal fiber for felting	339,034	Mar. 30	2967	.....	34	1486
Waring, John T., Yonkers, N. Y. Apparatus for manufacturing napped or filled yarns or threads	347,538	Aug. 17	1487	394 / 395	36	755
Waring, John T., Yonkers, N. Y. Fulling or felting hat-bodies, &c	355,041	Dec. 28	2015	531	37	1401
Waring, John T., Yonkers, N. Y. Machine for fulling hat-bodies, &c	355,042	Dec. 28	2017	531	37	1401
Wark, David, Mount Vernon, N. Y. Movement-cure apparatus	349,019	Sept. 14	663	171	36	1172
Warner, Adam N., and T. J. Deakin, Williamsport, Pa. Railway-tie	342,987	June 1	291	76	35	1059
Warner, Alexander, New York, N. Y. Metal can, &c	337,539	Mar. 9	909	232	34	1095
Warner, Benjamin D., and A. Pelisse, Newark, N. J. Automatic cut-off for gas-burners	344,510	June 29	2478	637	35	1485
Warner Bros. (See Tallman, John C., assignor.)						
Warner, Charles D., Ansonia, Conn. Electric-clock system	335,860	Feb. 9	1089	287 / 288	34	644
Warner, Ernest P., assignor to Western Electric Company, Chicago, Ill. Individual electric signal	339,718	Apr. 13	915	225	35	167
Warner, Ernest P., assignor to Western Electric Company, Chicago, Ill. Armature for dynamo-electric machines	346,965	Aug. 10	665	177	36	596
Warner, G. Wilber, Freeport, Ill. Anti-friction roller and wheel	348,802	Sept. 7	953	96	36	1113
Warner, George W., Freeport, Ill. Spring-hinge	345,748	July 20	1367	356	36	258
Warner, Henry, *et al.* (See Rogers, William, assignor.)						
Warner, Henry K., St. Paul, Minn., assignor of one-half to F. H. Harvey, Hudson, Wis. Automatic weighing-scale	353,388	Nov. 30	2321	621	37	925
Warner, John P., and F. Cook, Taylorville, Ill. Hay-stacker	336,771	Feb. 23	2399	629	34	889
Warner, John P., Philadelphia, Pa., assignor of part to J. F. Dezendorf, Norfolk, Va., E. A. Adams and T. E. Jacobs, Washington, D. C. Feed-water purifier and heater	346,247	July 27	2065	530	36	396
Warner, Leonard K., Claremont, N. H. Ladder	337,640	Mar. 9	1030	264	34	1118
Warner, Lorenzo D., assignor of one-half to C. Sage, Elkhart, Ind. Nut-lock	355,286	Dec. 28	2371	623	37	1472
Warner, Peter W., assignor to A. W. C. Curry Comb Company, Hastings, Nebr. Currycomb	346,625	Aug. 3	224	61	36	504
Warner, Samuel G. (See Hough, Benjamin B., assignor.)						
Warner, William A., Syracuse, N. Y. Manufacture of spoons	337,099	Mar. 2	288	76	34	980
Warner, William L., New Haven, Conn. Pipe-coupling	351,414	Oct. 26	1901	495	37	364
Warren, Andrew, *et al.* (See Phillips, Elwood C., assignor.)						
Warren, B. Howard, Quincy, assignor to Neverslip Horseshoe Company, Boston, Mass. Horseshoe-calk	335,259	Feb. 2	246	65	34	484
Warren, Charles F. (See Southland and Warren.)						
Warren, Charles H., *et al.* (See Baldwin, Chester M., assignor.)						
Warren & Company, S. D. (See Howe, Robert L., assignor.)						
Warren, Cyrus M., Brookline, Mass. Roofing and paving material	345,399	July 13	834	.....	36	155
Warren, Cyrus M., Brookline, Mass. Roof, roofing fabric, and mechanism for manufacturing the same	351,948	Nov. 2	318	89	37	517
Warren, David H., assignor of one-half to J. Baylis, Montreal, Quebec, Canada. Apparatus for indicating the load on railway-cars	336,457	Feb. 16	1972	517	34	804
Warren Featherbone Company. (See Holden, George R., assignor.)						
Warren, Felix P., Mulberry, Tenn. Cultivator	340,744	Apr. 27	2359	621	35	440

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Warren, George H., and E. C. Richmond, Shelburne Falls, Mass. Shingling-bracket	348,705	Sept. 7	238	63	36	1091
Warren, Henry H., Côté St. Paul, Quebec, Canada. Die for making hammers	348,362	Aug. 31	2674	720	36	992
Warren, Ira B., and C. M. Potter, Wauconia, Iowa. Drag-saw	338,005	Mar. 16	1525	395	34	1212
Warren, John, Boston, assignor to H. Barrows, trustee, Reading, Mass. Hot-air register	351,230	Oct. 19	1607	421	37	307
Warren, John, assignor of two-thirds to E. Burritt, Easton's Corners, and P. W. D. Brodrick, Brockville, Ontario, Canada. Car-coupling link	342,656	May 25	2353	621	35	966
Warren, John R., assignor of one-half to J. H. Williams, Plainwell, Mich. Spring bed-bottom	337,902	Mar. 16	1370	355	34	1185
Warren, Orris H., Syracuse, N. Y. Oil-can	333,575	Jan. 5	107	30	34	23
Warren, Orris H., Syracuse, N. Y. Telelain or shaft-oiler	352,434	Nov. 9	1003	271	37	654
Warren, T. A., *et al.* (See Taliaferro, Eilbeck H., assignor.)						
Warren, Winslow. (See Parsons, Francis W., assignor.)						
Warrick, Silas E., Macon, Ill. Tile-ditching machine	336,183	Feb. 16	1574	414	34	733
Warrington & Co., W. A. (See Lloyd, Cyrus W., assignor.)						
Warrington, Jesse, assignor of one-half to Nordyke & Marmon Company, Indianapolis, Ind. Roll-grinding machine	349,544	Sept. 21	1382	358	36	1319
Warrior Mower Company. (See Crowley, George G., assignor.)						
Warstler, Levi, and A. C. Pontius, Louisville, Ohio. Pavement	333,576	Jan. 5	109	30	34	23
Warth, Albin, Stapleton, N. Y. Lubricator	345,558	July 13	1085	277, 278	36	201
Warth, Albin, Stapleton, N. Y. Steam pumping-engine	348,076	Aug. 24	2277	610	36	910
Warwick, George T., Springfield, Mass. Vehicle-wheel	350,176	Oct. 5	112	32	37	24
Warwick, John, Beloit, Wis. Windmill	343,213	June 8	637	158, 159	35	1131
Warwick Machine Company. (See Gillespie, James E., assignor.)						
Warwick, William R. (See Hall, George F., assignor.)						
Wash, Benjamin S., assignor of one-half to J. M. Wash, St. Louis, Mo. Buckle	335,490	Feb. 2	559	147	34	541
Wash, John M. (See Wash, Benjamin S., assignor.)						
Washburn, Albert L., assignor to W. H. Wilkinson, Boston, Mass. Micrometer-calipers	350,513	Oct. 12	582	161	37	113
Washburn, Benjamin D., Boston, Mass. Blind-adjusting device	335,861	Feb. 9	1091	288	34	644
Washburn, Freeman C., Wellsborough, Pa. Cartridge-loading implement	345,343	July 13	755	190	36	142
Washburn, George A., assignor of one-fourth to R. W. Clark, Medina, Ohio. Rotary engine	351,231	Oct. 19	1608	422	37	307
Washburn & Moen Manufacturing Company. (See Bates, Albert J., assignor.)						
Washburn & Moen Manufacturing Company. (See Curtis, John D., assignor.)						
Washburn & Moen Manufacturing Company. (See Lenox, Edwin S., assignor.)						
Washburn, Nathan, Allston, Mass. Car-wheel	351,232	Oct. 19	1610	422	37	308
Washburn, William H. (See Kirchner and Washburn.)						
Wassell, Ann L. (See Wassell, Edwin D., assignor.)						
Wassell, Edwin D., assignor to A. I. Wassell, Pittsburg, Pa. Roll for rerolling old rails	336,272	Feb. 16	1714	447	34	756
Wasserman, Adolph. (See McClellan, Oscar D., assignor.)						
Wassung, William, assignor of one-half to P. Walch, Springfield, Mass. Cigar-bundling press	353,521	Nov. 30	2521	672	37	962
Waste, Alphonso D., Galesburg, Ill. File-box	337,903	Mar. 16	1371	355	34	1185
Waterberry, William W., Watertown, Wis. Draft-coupling	334,999	Jan. 26	2087	557	34	407
Waterbury Clock Company. (See Northrop, Homer F., assignor.)						
Waterbury Clock Company. (See Stahlberg, Charles, assignor.)						
Waterbury Farrel Foundry and Machine Company. (See Lamb, George B., assignor.)						
Waterbury Manufacturing Company. (See Brooks, William B., assignor.)						
Waterbury Watch Company. (See Eisen, Hermann J., assignor.)						
Waterbury Watch Company. (See Hart, George E., assignor.)						
Waterbury Watch Company. (See Meerlender, Paul H., assignor.)						
Waterhouse, Addison G., Hartford, Conn. Electric-arc lamp	336,503	Feb. 16	2022	531	34	814
Waterhouse, Addison G., New York, N. Y., assignor, by mesne assignments, to Schuyler Electric Light Company of New York. Electric-arc lamp	336,184	Feb. 16	1575	414	34	734
Waterhouse, Addison G., assignor to Waterhouse Electric and Manufacturing Company, Hartford, Conn. Electric-arc lamp	345,937	July 20	1629	420	36	305
Waterhouse, Ai. (See Waterhouse, Mark A., assignor.)						
Waterhouse Electric and Manufacturing Company. (See Waterhouse, Addison G., assignor.)						
Waterhouse, Frank G., Sacramento, Cal. Electric lamp	334,317	Jan. 12	1172	314	34	225
Waterhouse, George C., assignor to J. S. Fite and J. F. Perrin, New Albany, Ind. Shutter-fastener	340,262	Apr. 20	1678	426	35	312
Waterhouse, Mark A., Boston, Mass., assignor to A. Waterhouse, Durham, Me. Corset	339,719	Apr. 13	921	225	35	168
Waterhouse, Richard E., Warwick, R. I. Let-off mechanism for looms	334,063	Jan. 12	788	216	34	155
Waterman, Henry, Bartlett, Ill. Clothes-drier	351,300	Oct. 19	1702	446	37	323
Waterman, Jasper A., and J. W. Chapman, Reading, Mich. Machine for cutting sheet-staves	340,745	Apr. 27	2360	621	35	440
Waterman, John S., Ithaca, N. Y. Key-seat-milling machine	347,539	Aug. 17	1489	395	36	755
Waterman, Lewis E., Moline, Ill. Corn-planter	336,772	Feb. 23	2400	629, 630, 631	34	889
Waterman, William H., Providence, R. I. Sewing-machine	336,607	Feb. 23	2171	568	34	846
Waters, Elisha, Troy, N. Y. Tool-holder	338,322	Mar. 23	1948	512	34	1300
Waters, Edward G., and R. G. Sweeny, Terre Haute, Ind. Electrical switch	346,183	July 27	1968	507	36	377
Waters, Frank J., Providence, R. I. Oscillating steam-engine	340,689	Apr. 27	2276	600, 601	35	426
Waters, Frank M., assignor to J. H. Thomas, Springfield, Ohio. Clutch mechanism	351,009	Oct. 19	1314	345	37	253
Waters, Isaac L., Sutton, Mass. Breech-loading fire-arm	349,244	Sept. 14	973	248	36	1230
Waters, James, Minneapolis, Minn. Double-acting force-pump	340,020	Apr. 13	1321	330, 331	35	242
Waters, Samuel H. (See Waters, Wordsworth F. and S. H.)						
Waters, Wordsworth F., Johnson, and S. H. Waters, Lyndon, Vt. Butter-worker	349,326	Sept. 21	1062	273	36	1257
Watkins, Charles B. (See Palmer, George W., assignor.)						
Watkins, Edgar W., Falls Church, Va. Steamer	346,334	July 27	2184	560	36	418
Watkins, Frank M., assignor of one-half to J. T. Weighell, Cincinnati, Ohio. Starching-machine	351,674	Oct. 26	2280	590	37	436
Watkins, H. T. (See Ross, James B., assignor.)						
Watkins, Henry W., Cleveland, Ohio, assignor to Voltaic Electric Manufacturing Company. Electric belt	351,233	Oct. 19	1610	422	37	308
Watkins, Thomas P., New Bedford, Mass. Easel-shelf bracket	334,065	Jan. 12	792	217	34	155
Watkins, William W., *et al.* (See Tyler, George, assignor.)						
Watkinson, George, assignor to L. Candee & Co., New Haven, Conn. Rubber boot or shoe	339,953	Apr. 13	1224	304	35	225
Watmough, John G. (See Rau, Eugene, assignor.)						
Watrous, Charles R., Ledyard, Conn. Nut-cracker	343,351	June 8	862	217	35	1170

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Watrous, Joseph. (See Stiff and Watrous.)						
Watson, Algeraus C., London, Ohio. Adjustable chair	349,129	Sept. 14	817	207	36	1200
Watson, Benjamin F. and M. M., Bridgeport, Ill. Stock-chute	350,787	Oct. 12	967	259	37	183
Watson, Benjamin J., *et al.* (See Watson, Robert S., assignor.)						
Watson, Charles, San Francisco, Cal. Piston-rod and valve-stem packing	341,973	May 18	1375	366	35	779
Watson, Clarence L., *et al.* (See Costello, John, assignor.)						
Watson, Edward C. (See Weideman, Uriah M., assignor.)						
Watson, Elias M., Beloit, Wis. Pipe lifting machine	333,577	Jan. 5	110	30	34	23
Watson, Elijah W., McLean, N. Y. Calculating-machine	334,064	Jan. 12	789	216, 217	34	155
Watson, Frank, Scarsdale, N. Y. Automatic signal-lantern for use on railways and steam and sailing vessels	349,828	Sept. 28	1785	461	36	1403
Watson, Henry H., Waltham, Mass. Car wheel and axle	342,657	May 25	2353	621	35	966
Watson, John D., and J. A. Wilcox, Wyatt, W. Va. Apparatus for boring cylinders	349,963	Sept. 28	1959	506	36	1437
Watson, John E., Louisville, Ky. Regulator for dynamo-electric machines	336,608	Feb. 23	2172	568	34	846
Watson, John R., Sacramento, Cal. Clinching-punch	337,036	Mar. 2	208	55	34	964
Watson, Joseph, Petaluma, Cal. Fumigator	352,282	Nov. 9	812	217	37	615
Watson, Lewis F., *et al.* (See Burnley, William, assignor.)						
Watson, Lewis H., Chicago, Ill. Ironing-machine	353,769	Dec. 7	159	44, 45	37	1036
Watson, Mark M. (See Watson, Benjamin F. and M. M.)						
Watson, Martin V. B. (See Henrie, George V., assignor.)						
Watson, Robert S., assignor of two-thirds to B. J. Watson and M. Garland, Bay City, Mich. Boiler for house-warming apparatus	344,699	June 29	2717	706	35	1532
Watson, Sam, Straughn, Ind. Fence-machine	338,893	Mar. 30	2763	728	34	1449
Watson, Thomas A., Everett, assignor to American Bell Telephone Company, Boston, Mass. Telephone	348,077	Aug. 24	2379	610	36	910
Watson, Walter H., Sharon, Mass. Stiffener for boots or shoes	340,177	Apr. 20	1549	391	35	289
Watson, William, assignor of one-half to G. M. Irving, Victoria, British Columbia, Canada. Heel-die	349,071	Sept. 14	736	187	36	1185
Watson, William R. (See Hipp, Preston O., assignor.)						
Watson, William S., Matteawan, N. Y. Speculum	351,548	Oct. 26	2093	543	37	402
Watt, William R., Somerville, Tenn. Spring-balance	338,894	Mar. 30	2765	728	34	1449
Watters, John S. (See Street and Watters.)						
Wattles, Joseph W., Canton, Mass. Spinning-frame ring and holder	335,406	Feb. 2	446	116	34	521
Wattles, Joseph W., Canton, Mass. Duplex race-ring holder	335,728	Feb. 9	905	239	34	610
Wattles, Joseph W., Canton, Mass. Mechanism for supporting and lubricating the spindles of ring-spinning frames	335,980	Feb. 9	1257	334	34	672
Watts, David H. (See Sharpless, William C., assignor.)						
Watts, John, Bristol, county of Bristol, England. Metallic piston and valve	353,522	Nov. 30	2523	673	37	963
Watts, Thomas, *et al.* (See Skinner, Prentice B., assignor.)						
Watzlawik, Fritz. (See Kohn and Watzlawik.)						
Waugh, Henry H., assignor of one-half to C. D. Reed, Whitman, Mass. Manufacture of boots or shoes	352,899	Nov. 16	1616	434	37	776
Wawrinsky, Thure E., Stockholm, Sweden. Making forks	334,551	Jan. 19	1503	402	34	291
Way, Frank K. (See Way and Clarke.)						
Way, George W. (See Thomas and Way.)						
Way, Thomas R. and F. K., and J. H. Clarke, Springfield, Ohio. Can-opener	337,719	Mar. 9	1127	290	34	1134
Way, William O., Newington, Conn. Burnishing-machine	341,524	May 11	765	206	35	655
Wayland, James, Newark, N. J., assignor to Ansonia Brass and Copper Company, and W. A. Hull, New York, N. Y. Wick for lamp-burners	345,091	July 6	406	102	36	74
Wayne, Michael J., *et al.* (See Cotter, Edward J., assignor.)						
Wayne, William J., Decatur, Ill. Phaeton-spring	338,452	Mar. 23	2132	557	34	1333
Wayne, William J., Decatur, Ill. Road-cart	352,593	Nov. 16	1206	327	37	699
Weaber, William F. (See Fried and Weaber.)						
Wealand, Henry K., Durlach, assignor of one-half to W. Romig, Lincoln, Pa. Bag-holder	347,077	Aug. 10	838	223	36	627
Weatherhead, Albert J. (See Collins and Weatherhead.)						
Weatherhead, Albert J., *et al.* (See Collins, George E., assignor.)						
Weatherhead, Albert J., assignor to Cleveland Faucet Company, Cleveland, Ohio. Drain-tube for faucets	346,520	Aug. 3	92	24	36	478
Weatherhead, Albert J. and E. H., Cleveland, Ohio. Force and drain faucet	353,723	Dec. 7	106	28	37	1026
Weatherhead, Edward H. (See Collins and Weatherhead.)						
Weatherhead, Edward H. (See Weatherhead, Albert J. and E. H.)						
Weathers, James, Indianapolis, Ind. Combined anvil, vise, and drill	334,626	Jan. 19	1605	427, 428	34	310
Weathers, James, Indianapolis, Ind. Lifting-jack	334,627	Jan. 19	1606	428	34	311
Weathers, James, Indianapolis, Ind. Sash-balance	334,628	Jan. 19	1607	428	34	311
Weaver, Benjamin, Pittsburg, Pa. Wire-rod-rolling mill	351,675	Oct. 26	2282	590, 591	37	437
Weaver, Cromwell P., assignor of one-half to J. L. Carre, Philadelphia, Pa. Gate-latch	349,469	Sept. 21	1282	333	36	1299
Weaver, Daniel. (See Altick, James O., assignor.)						
Weaver, Edward P., assignor of one-half to T. Thompson and R. E. Bodine, Shelbina, Mo. Device for moving cars	336,609	Feb. 23	2175	568	34	846
Weaver, Enos B. (See Weaver, Jacob H. and E. B.)						
Weaver, George A., Newport, R. I. Finger-bar for mowing-machines	343,618	June 15	1245	313	35	1247
Weaver, George T. (See Huntley, Charles, assignor.)						
Weaver, George W., Ilion, N. Y. Producing copies in imitation of type-writing	353,338	Nov. 30	2249	602	37	911
Weaver, Henry M., Mansfield, Ohio. Self-binding harvester	338,808	Mar. 30	2634	693, 694, 695	34	1426
Weaver, Henry M., Mansfield, Ohio. Self-binding harvester	338,809	Mar. 30	2638	695	34	1427
Weaver, Henry M., Mansfield, Ohio. Grate	347,401	Aug. 17	1292	344, 345	36	719
Weaver, Jacob H., East Lampeter, Pa. Thill-coupling	343,874	June 15	1587	404	35	1309
Weaver, Jacob H. and E. B., East Lampeter, Pa. Thill-coupling	340,746	Apr. 27	2361	622	35	441
Weaver, John W. (See Hill, Louis C., assignor.)						
Weaver, Samuel J. (See O'Brien and Weaver.)						
Weaver, Theophilus, Harrisburg, Pa. Hand corn-sheller	349,327	Sept. 21	1063	273	36	1257
Weaver, William, Westport, Conn. Mechanical movement	342,409	May 25	2008	530	35	902
Weaver, William, Greenwich, assignor of one-half to A. G. Story, Little Falls, N.Y. Loom	342,408	May 25	2005	529	35	902
Webb, Benjamin T., Beaufort, N. C. Steam-engine	339,506	Apr. 6	563	136	35	104
Webb, Cyrus O., Moravia, N. Y. Machine for pearling barley, wheat, &c.	347,540	Aug. 17	1493	395	36	756
Webb, Edward. (See Briggs and Webb.)						
Webb, Edward E., Fitchburg, Mass. Spirit-level	354,076	Dec. 7	613	168, 169	37	1118

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Webb, Elmore J., Lamonte, Mo. Fly-screen	340,840	Apr. 27	2482	653	35	463
Webb, Harry C., and J. A. Kellogg, Nashville, Tenn.; said Webb assignor to said Kellogg. Car-coupling	348,363	Aug. 31	2675	721	36	992
Webb, John P., Wakenda, Mo. Corn-planter	334,318	Jan. 12	1174	314	34	226
Webb, John T., Courtney, Tex. Cane-mill	335,862	Feb. 9	1092	288	34	644
Webb, Joseph, Beaver, Pa. Manufacture of fancy glassware	345,265	July 6	645	163	36	117
Webb, Rodolphus L., New Britain, Conn. Graduating dials	338,123	Mar. 16	1681	437	34	1242
Webb, Samuel J., Minden, assignor of one-half to R. N. McKellar, Shreveport, La. Baling-press	353,101	Nov. 23	1919	514	37	841
Webb, Samuel J., Minden, assignor of one-half to R. N. McKellar, Shreveport, La. Baling-press	353,102	Nov. 23	1920	515	37	842
Webb, William, Philadelphia, Pa. Card-steadying pin for prisms of Jacquard mechanisms	339,238	Apr. 6	176	46	35	34
Webb, William J., Harbor au Bouche, Nova Scotia, Canada. Lamp-chimney cleaner	347,671	Aug. 17	1695	452	36	794
Webber, Charles C., Holyoke, Mass., assignor to himself and T. Campbell, Chicago, Ill. Cloth-doubling and rolling-up machine	345,344	July 13	756	190	36	142
Webber, Edward B., Collierville, Tenn. Muzzle	345,749	July 20	1367	356	36	259
Webber, Moses H., *et al.* (See Saunders, Charles R. P., assignor.)						
Webber, William H. Y. (See Somerville and Webber.)						
Webber, William O., Lawrence, Mass. Centrifugal pump	337,216	Mar. 2	442	116	34	1008
Weber, Adam, New York, N. Y. Limekiln	355,043	Dec. 28	2020	{531, 532}	{37, 37}	1402
Weber, Adolph, assignor of one-half to H. W. Rood, Detroit, Mich. Core-box	336,458	Feb. 16	1973	517	34	805
Weber, August, New York, N. Y. Dental-engine hand-piece	351,821	Nov. 2	127	35	37	482
Weber, August, New York, N. Y. Dental engine	354,819	Dec. 21	1705	451	37	1332
Weber, Caspar, Philadelphia, Pa. Bedstead for invalids and others	342,551	May 25	2209	587	35	939
Weber, Charles, assignor to J. F. Pond, Cleveland, Ohio. Forge	336,074	Feb. 9	1394	368	34	696
Weber, Emmet C., Owatonna, Minn. Washing-machine	344,700	June 29	2719	{706, 707}	{35, 35}	1532
Weber, John H., Detroit, Mich. Churn-closing device	338,006	Mar. 16	1525	396	34	1213
Weber, Louis, Brooklyn, N. Y. Curtain-fixture	336,610	Feb. 23	2177	{568, 569}	{34, 34}	846
Weber, Moses H., Earl, Pa. Sulky-plow	344,070	June 22	1864	479	35	1367
Weber, Otto E., Burlington, Iowa. Thimble	353,389	Nov. 30	2323	621	37	923
Weber, Theodor R. A., New York, N. Y. Railway-signal	347,541	Aug. 17	1493	396	36	756
Weber, Theodor R. A., New York, assignor to himself, J. H. Pendleton, Brooklyn, R. I. Sloan, C. and A. H. Tiers, New York, N. Y. Tubular iron railing	340,263	Apr. 20	1679	427	35	312
Weber, Theodore A., New York, N. Y. Shuttle-motion for looms	339,239	Apr. 6	177	46	35	34
Webster, Andrew G., Boston, Mass. Leather-splitting machine	347,402	Aug. 17	1294	345	36	720
Webster & Comstock Manufacturing Company. (See Chivill, John, assignor.)						
Webster, Daniel W., Christiana, Pa. Liquid-motor	339,240	Apr. 6	179	47	35	34
Webster, Daniel W., and R. J. Smith, Osceola, Iowa. Broadcast-sceder	335,661	Feb. 9	802	{213, 214}	{34, 34}	591
Webster, David F. (See Rowlett, Webster, and Pfeiffer.)						
Webster, John. (See Waldman, Simon L., assignor.)						
Webster, John F., assignor to Champion Bar and Knife Company, Springfield, Ohio. Tempering-machine	335,551	Feb. 2	644	{168, 169}	{34, 34}	555
Webster, John F., assignor to Champion Bar and Knife Company, Springfield, Ohio. Machine for finishing harvester-fingers	337,802	Mar. 9	1227	319	34	1152
Webster, Joseph W., Little Rock, S. C. Shovel-plow	348,436	Aug. 31	2785	748	36	1013
Webster Manufacturing Company. (See Wolff, Hermann, assignor.)						
Webster, Warren. (See Herrmann, Henry O., assignor.)						
Webster, William, Armley, Leeds, county of York, England. Over-edge sewing-machine	346,248	July 27	2067	531	36	397
Webster, William, Philadelphia, Pa. Hook	352,381	Nov. 9	939	251	37	641
Webster, William A., Manchester, N. H. Umbrella	341,192	May 4	304	86	35	561
Webster, William S., assignor of one-half to Peters & Calhoun Company, Newark, N. J. Harness-saddle	337,217	Mar. 2	444	116	34	1008
Webster, William S., Newark, N. J., assignor of one-half to Peters & Calhoun Company. Saddle-tree	347,672	Aug. 17	1696	452	36	794
Weck, Friedrich, Lilleshall, county of Salop, England. Dry center-valve for gas-purifiers	345,559	July 13	1088	278	36	201
Weckman, John, Canton, Ohio. Harrow	346,521	Aug. 3	93	25	36	478
Wedd, Benjamin G., Henrietta, N. Y. Hanger for sliding doors	349,829	Sept. 28	1787	463	36	1403
Weddel, John W., assignor of one-half to H. M. Pettengill, Toledo, Ohio. Fabric-turfing implement	334,915	Jan. 26	1980	{527, 528}	{34, 34}	388
Wedermann, Albert, Vienna, Austria-Hungary. Sewing-machine	340,178	Apr. 20	1550	391	35	289
Weed, George P. (See Merredith, John, assignor.)						
Weeden, Frank E. (See O'Connell and Weeden.)						
Weeden, Henry C., Boston, Mass. Portable fire-work stand	334,496	Jan. 19	1424	383	34	278
Weeden, Henry C., Boston, Mass. Chair	338,895	Mar. 30	2766	728	34	1449
Weeden, Henry C., Boston, Mass. Flushing device for water-closet tanks	343,214	June 8	639	159	35	1132
Weeden, Henry C., Boston, Mass. Ball-cock	348,364	Aug. 31	2677	721	36	992
Weeden, Henry C., Boston, Mass. Chair-bed	352,723	Nov. 16	1389	376	37	733
Weedon, Walter C., Kansas City, Mo. Ear-tag for marking animals	347,850	Aug. 24	1948	517	36	850
Weekes, Charles, Dublin, Ireland. Combined cork-extractor and lemon-squeezer	346,249	July 27	2069	532	36	397
Weeks, Horace, Boston, Mass. Making cut nails	335,260	Feb. 2	247	65	34	485
Weeks, Horace, Boston, Mass., assignor to Corrugated Wire Fastening Company. Nailing-machine	341,193	May 4	305	87	35	561
Weeks, Horace, Boston, and E. Woodward, Somerville, Mass.; said Woodward assignor to said Weeks. Nailing-machine	335,261	Feb. 2	248	65, 66	34	485
Weeks, James L. (See Quigley, Andrew P., assignor.)						
Weeks, John, New York, and H. Traver, Brooklyn, assignors to R. Dudgeon, Oyster Bay, N. Y. Hydraulic jack	334,206	Jan. 12	1014	270	34	196
Weeks, Stephen P. (See Barber and Weeks.)						
Weems, David G., Baltimore, Md. Ore-separator	344,022	June 22	1788	461	35	1354
Wegmann, Friedrich, Zurich, Switzerland. Driving-belt	338,896	Mar. 30	2766	729	34	1450
Wegmann, Friedrich, Zurich, Switzerland. Roller grinding-mill	339,241	Apr. 6	180	47	35	34
Wehmeyer, Edward, Brunswick, Mo. Shutter-fastener	345,750	July 20	1370	356	36	259
Wehmeyer, George W., and B. C. Alford, Goshen, Ind. Churn	341,525	May 11	767	206	35	655
Wehrle, Andrew, Middle Bass Island, Ohio. Treating wine	343,973	June 15	1718	439	35	1335
Wehrle, Joseph H., Newark, N. J. Electric switch-board	353,184	Nov. 23	2039	545	37	865
Weibach, Carl, Pittsburg, Pa. Pyrotechnic match	340,747	Apr. 27	2362	622	35	441
Weichert, Hermann, Hoboken, N. J. Machine for cutting holes in wood or other materials	349,772	Sept. 28	1705	440	36	1386
Weichhart, John, San Francisco, Cal. Gopher-trap	345,345	July 13	760	190	36	143
Weickum, Georg, Vienna, Austria-Hungary. Mechanism for converting motion by helical surfaces	346,335	July 27	2184	560	36	418

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Pags.
Weideman, Uriah M., assignor to E. C. Watson, Brooklyn, N. Y. Bee-hive	336,185	Feb. 16	1576	414	34	734
Weidemann, Otto. (See Priester and Weidemann.)						
Weiderman, Charles H., assignor of one-half to R. Smith, Chicago, Ill. Filter	347,403	Aug. 17	1295	345	36	720
Weighell, John T. (See Watkins, Frank M., assignor.)						
Weightman, David B., Grand Rapids, Mich. Inhaler	353,613	Nov. 30	2657	711	37	988
Weightman, David B., assignor of one-half to Perkins & Mason, Grand Rapids, Mich. Floating minnow-basket	354,958	Dec. 28	1903	502	37	1382
Weihe, Julius T., Herford, Prussia, Germany. Box-fastener	339,507	Apr. 6	564	136	35	104
Weil, Leopold, New York, N. Y. Alarm for detecting water-overflow	336,773	Feb. 23	2404	632	34	890
Weimer, John G., New York, N. Y. Coat	351,549	Oct. 26	2094	543	37	402
Weimer, Peter L., Lebanon, Pa. Rotary blower	345,751	July 20	1370	357	36	259
Weimer, Peter L., Lebanon, Pa. Compound air-compressor	345,752	July 20	1372	357	36	259
Weimer, Peter L., Lebanon, Pa. Cinder-car for blast-furnaces	353,009	Nov. 23	1777	478	37	815
Weimer, Peter L., Lebanon, Pa. Valve for pumps	353,997	Dec. 7	503	136	37	1098
Weimer, Peter L., Lebanon, Pa. Blowing-engine	354,279	Dec. 14	935	246, 247	37	1182
Weimer, Peter L., Lebanon, Pa. Blowing-engine	354,453	Dec. 14	1162	310, 311	37	1226
Weinberg, Arthur. (See Hoffmann and Weinberg.)						
Weinberg, Harry I. (See Weinberg, Solomon, assignor.)						
Weinberg, Phillip, and L. Clark, Jr., New York, N. Y. Fur skirt	353,103	Nov. 23	1922	515	37	842
Weinberg, Solomon, Newark, N. J., assignor to H. I. Weinberg, Rochester, N. Y. Automatic damper-regulator	335,662	Feb. 9	803	214	34	591
Weinedel, Charles. (See Stitzel and Weinedel.)						
Weiner, Isidore H., Houston, Tex. Reporter's desk	348,706	Sept. 7	240	63	36	1091
Weinman, Christian. (See Murphy and Weinman.)						
Weinmann, August A., Dallas, Tex. Combination-plow	347,144	Aug. 10	928	247, 248	36	644
Weir, Daniel P., Salem, Mass. Water-motor	338,572	Mar. 23	2285	599	34	1359
Weir, Daniel P., Salem, Mass. Valve	348,303	Aug. 31	2607	701, 702	36	978
Weir, Frederic C., Cincinnati, Ohio. Automatic continuous rail-frog	348,078	Aug. 24	2280	611	36	910
Weir, Frederic C., Cincinnati, Ohio. Head-chair for railway-switches	351,234	Oct. 19	1612	423	37	308
Weir, Frederic C., Cincinnati, Ohio. Switch-stand	351,235	Oct. 19	1612	423	37	308
Weir, Worthington T., Chicago, Ill. Key-board for musical instruments	350,788	Oct. 12	968	259	37	183
Weir, Worthington T., Chicago, Ill. Key-board for musical instruments	352,965	Nov. 23	1711	459, 460	37	802
Weise, Carl, Dermbach, Saxe-Weimar, Germany. Roofing-tile	345,400	July 13	834	209	36	155
Weis, Joseph, Jersey City, N. J. Electric motor	335,863	Feb. 9	1093	288	34	645
Weisell, Nelson E., Warren, Ohio. Fence	338,573	Mar. 23	2287	600	34	1359
Weiser, John W., Chicago, Ill. Wringer	335,981	Feb. 9	1258	334	34	672
Weiser, John W., Chicago, Ill. Wheel-hub	349,190	Sept. 14	896	230	36	1216
Weisgerber, William F., and I. C. Himmer, assignors to Standard Electric Clock Company, New York, N. Y. Electric winding device for clocks	350,177	Oct. 5	114	32	37	24
Weiss, Carolina. (See Weiss, Frederick W., assignor.)						
Weiss, Charles W., Brooklyn, assignor to Kruse Check and Adding Machine Company, New York, N. Y. Electro-magnetic adding-machine	348,437	Aug. 31	2786	749, 750	36	1013
Weiss, Charles W., Brooklyn, assignor of one-half to C Kruse, New York, N. Y. Atmospheric engine	351,081	Oct. 19	1405	369	37	269
Weiss, Frederick W., assignor to C. Weiss, Mount Vernon, N. Y. Tool-holder	338,652	Mar. 23	2397	631	34	1378
Weiss, John C., Sheldon, Mo. Combined corn-planter and cultivator	353,835	Dec. 7	258	69	37	1053
Weiss, Louis T., Brooklyn, assignor to Kruse Check and Adding Machine Company, New York, N. Y. Machine for delivering and adding checks	348,369	Aug. 31	2687	723, 724	36	994
Weiss, Otto P. (See Byers, Joseph W., assignor.)						
Weiss, Rudolph, Nottingham, England, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Machine for removing bobbins from carriages of lace-machines, inserting them therein, and threading the carriages	354,280	Dec. 14	937	247, 248	37	1183
Weissenborn, Edward, Jersey City, N. J. Calipers or dividers	341,080	May 4	143	43	35	531
Weissenborn, Edward, Jersey City, N. J. Compass attachment for pencils	341,081	May 4	144	43	35	532
Weiss, Albert R., Brooklyn, N. Y. Atmospheric engine	343,875	June 15	1588	404	35	1309
Weitmyer, John H., Harrisburg, Pa. Boiler-flue cleaner	347,145	Aug. 10	929	248	36	644
Weitmyer, John H., Harrisburg, Pa. Furnace	353,474	Nov. 30	2451	654	37	949
Weitz, Conrad, Buffalo, N. Y. Refrigerator and table combined	346,966	Aug. 10	667	178	36	596
Weitz, Jacob, and H. Klassert, Buffalo, N. Y. Refrigerator	348,803	Sept. 7	354	96	36	1113
Weitzel, George, Toledo, Ohio. Cash drawer and register	345,092	July 6	407	103	36	74
Weitzel, Henry, Ithaca, Wis. Hoop-splitting machine	353,000	Jan. 26	2067	557	34	407
Weitzel, Jacob F., assignor to C. F. Muth, Cincinnati, Ohio. Bellows	334,319	Jan. 12	1175	315	34	226
Welch, E. B. (See Sickels, Gerard, assignor.)						
Welch, Henry S. (See Byrne, James H., assignor.)						
Welch, Horace H. (See Parsons and Welch.)						
Welch, James F., Brooklyn, N. Y. Circular sawing machine	334,141	Jan. 12	895	245, 246	34	174
Welch, Loren G., Groton, Vt. Flooring-clamp	341,708	May 11	1030	273	35	707
Welch, S. Frank, Mount Pleasant, Iowa. Excavator	334,497	Jan. 19	1425	383, 384	34	278
Welch, Thomas, and T. R. Crooks, Philadelphia, Pa. Water-heating apparatus for boilers	338,453	Mar. 23	2132	558	34	1333
Welch, William, Moss Point, Miss. Center-board for vessels	336,365	Feb. 16	1844	484	34	781
Weld, Frank A. (See Hazeltine and Weld.)						
Weld, George A., Winchester, Mass. Shoe	343,410	June 8	951	238	35	1187
Weldon, James H. (See Reynolds and Weldon.)						
Weldon, Leonard, Amsterdam, N. Y. Dyeing apparatus	354,281	Dec. 14	944	249	37	1184
Weldon, Leonard, assignor of one-half to Greene Knitting Company, Amsterdam, N. Y. Dyeing apparatus	347,404	Aug. 17	1296	345	36	720
Welds, Benjamin A., Jackson, Mich. Fence-making machine	352,212	Nov. 9	720	193	37	598
Welisch, Herman, Cochise County, Ariz. Ter. Vehicle-brake	354,282	Dec. 14	946	249	37	1184
Welk, Gustav, Seward, Nebr. Device for transmitting power	339,356	Apr. 6	347	84	35	65
Wellard, Andrew, Brooklyn, N. Y. Lock	343,290	June 8	754	187, 188	35	1152
Weller, Chester A., Croton Landing, assignor of one half to Elger & Elger, New York, N. Y. Screw-cutting machine	348,365	Aug. 31	2679	721, 722	36	992
Weller, Chester A., Croton Landing, assignor to C. C. Elger, Brooklyn, and W. D. Elger, New York, N. Y. Clamping device	351,550	Oct. 26	2095	544	37	403
Weller, Michael I. (See Dibble, Seymour H., assignor.)						
Weller, Michael S., Charlestown, W. Va. Wrench	340,393	Apr. 20	1858	477	35	346

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Weller, Michael S., Charlestown, W. Va. Plumb-level	340,841	Apr. 27	2482	654	35	464
Weller, Michael S., Charlestown, W. Va. Ice-creeper	351,415	Oct. 26	1902	495	37	364
Weller, Russell, Buffalo, N. Y. Cutter for butter, lard, &c	353,614	Nov. 30	2657	711	37	988
Welles, Richard J., Athens, Pa. Harness-pad tree	348,253	Aug. 31	2539	682	36	964
Wellesley, Charles. (See Wellesley, Edwin P. and C.)						
Wellesley, Edwin P. and C., Colon, Mich. Windmill	337,641	Mar. 9	1031	265	34	1118
Wellhouse, George, Akron, Ohio. Fire-lining	350,331	Oct. 5	312	89	37	63
Wellhouse, George, assignor to Taplin, Rice & Co., Akron, Ohio. Heating-stove	349,545	Sept. 21	1384	359	36	1319
Welling, John E. (See Saunders and Welling.)						
Wellington, Arthur M., New York, N. Y. Anti-friction journal-box bearing	342,488	May 25	2116	559	35	922
Wellington, Frederick, Saginaw, Mich. Blacking-box holder	349,328	Sept. 21	1065	273	36	1258
Wellington, Henry, Brooklyn, N. Y. Lamp	341,194	May 4	306	87, 88	35	561
Wellington, Henry, Brooklyn, N. Y. Torch	343,682	June 15	1333	333	35	1262
Wellman, Alexander R., assignor to O. A. Miller, Brockton, Mass. Boot-tree	347,309	Aug. 10	1158	310	36	686
Wellman, Henry F., Englewood, assignor to Schneidewend & Lee Company, Chicago, Ill. Machine for shaving printers' leads	348,804	Sept. 7	356	96, 97	36	1114
Wellman, Samuel T., Cleveland, Ohio. Drawing disks of metal into tubular forms	348,079	Aug. 24	2283	611	36	911
Wells, A. W. (See Ward, Henry C., assignor.)						
Wells, Clarence L., assignor of one-half to R. E. Letton, Quincy, Ill. Incubator	351,729	Oct. 26	2352	612	37	450
Wells, Clinton W., Lucas, Iowa. Wash-board	336,186	Feb. 16	1577	414	34	734
Wells, Edgar J., assignor of one-half to F. Ives, Ticonderoga, N. Y. Device for oiling loose pulleys	349,546	Sept. 21	1385	359	36	1319
Wells, Erastus W., *et al.* (See Rowe, Holmes, and Wells.)						
Wells, Frank A. (See Harvey and Wells.)						
Wells, Frank A., Chicago, Ill. Water-closet	351,236	Oct. 19	1613	423	37	308
Wells, Frank R. (See Munz and Wells.)						
Wells, George, Annapolis, Md. Signal-lantern	338,574	Mar. 23	2288	600	34	1359
Wells, George L. (See Stearns and Wells.)						
Wells, George M., assignor to Solidity Iron Last Company, New York, N. Y. Last	344,229	June 22	20*5	533	35	1407
Wells, George M., assignor to Solidity Iron Last Company, New York, N. Y. Shoe-maker's jack	344,230	June 22	2086	533	35	1407
Wells, George W., Southbridge, Mass. Eyeglass-frame	343,876	June 15	1589	404	35	1310
Wells, Harlan P. (See Sibley and Wells.)						
Wells, Henry P., Brooklyn, assignor to T. J. Conroy, New York, N. Y. Fishing-fly book	335,491	Feb. 2	559	147	34	541
Wells, John H., New York, N. Y. Knife for cutter-heads	339,606	Apr. 6	744	183	35	131
Wells, John L., New York, N. Y. Air-heater	344,295	June 22	2178	559	35	1424
Wells, Joseph L., Philadelphia, Pa. Spring	336,774	Feb. 23	2406	632, 633	34	890
Wells, Joseph L., Philadelphia, Pa., assignor to Weston and Wells Manufacturing Company, Camden, N. J. Hair-roll	337,642	Mar 9	1032	265	34	1119
Wells, Joseph L., Philadelphia, Pa., assignor to Weston & Wells Manufacturing Company, Camden, N. J. Braided wire tubular spring	339,954	Apr. 13	1225	304	35	225
Wells, Joseph L., Philadelphia, Pa., assignor to Weston & Wells Manufacturing Company, Camden, N. J. Wire-braiding machine	341,974	May 18	1376	367	35	779
Wells, Levi B., Helena, Mont. Ter. Screened chute or water-way	340,264	Apr. 20	1680	427	35	312
Wells & Richardson Company. (See Boynton and Van Patten, assignors.)						
Wells, Willet C., Tiffin, Ohio. Well-drill	336,187	Feb. 16	1578	415	34	734
Wells, Willet C., Tiffin, Ohio. Rock-drill and well-boring machine. (Reissue)	10,731	June 1	555	140	35	1108
Wells, Willet C., Tiffin, Ohio. Tube-clamp for oil-wells, &c	352,724	Nov. 16	1390	377	37	734
Wells, William W., assignor to himself, H. E. Tidmarsh, and J. Smith, Sandy Hill, N. Y. Friction-pulley	349,547	Sept. 21	1387	359	36	1320
Welsh, Lee L., Brownwood, Tex. Wagon-standard	353,836	Dec. 7	260	70	37	1054
Welsh, William H., York, Pa. Medical spoon	343,510	June 8	1087	272	35	1210
Welton, Frank T., assignor of one-half to L. Kraus, Birmingham, Conn. Rubber shoe and leggin	342,152	May 18	1618	433	35	826
Welty, George, Gratiot, Wis. Plow-drag attachment	344,296	June 22	2179	559	35	1424
Wemple, Andrew, Chicago, Ill., assignor to F. Schumacher, Akron, Ohio. Grain-cutting machinery	339,720	Apr. 13	922	225, 226	35	168
Wendelken, J. M. (See Harrell, Joseph J., assignor.)						
Wendell, Henry A., Philadelphia, Pa. Car-axle box	352,171	Nov. 9	671	178, 179, 180	37	589
Wendell, Horace S. (See Trout, Silas E., assignor.)						
Wendling, Friedrich, Munich, Bavaria, Germany. Mixed paint	346,336	July 27	2186	.....	36	418
Wendt, Arthur F., New York, N. Y. Extracting copper from pyrites	345,401	July 13	836	.....	36	156
Wendt, Charles. (See Hartmann, Emil, assignor.)						
Wendt, William F. (See Osgood, J. Lester, assignor.)						
Wenger, Julius, Bridgeport, Conn., assignor to Blün & Henius Manufacturing Company. Machine for feeding and setting studs	350,709	Oct. 12	858	231, 232	37	163
Wenham, Francis H., The Beacon, Goldsworth, Woking, county of Surrey, England. Gas-lamp	353,650	Nov. 30	2727	727	37	999
Wenk, Theodore, Brooklyn, N. Y., and E. J. Brooks, East Orange, N. J., assignors to E. J. Brooks & Co., New York, N. Y. Lead and wire seal	340,394	Apr. 20	1859	477	35	346
Wentworth, Barton M., Berwick, Me. Sleigh-runner	346,337	July 27	2186	561	36	418
Wentworth, George R. (See Blackmer, Francis A., assignor.)						
Wentz, Rufus J., Stevens, N C. Seed-planter	344,887	July 6	135	33	36	24
Wenzel, Philipp. (See Hochstadt, Wenzel, and Heinebach.)						
Wenzel, Philipp, Mentz, Germany. Enameled slate	333,578	Jan. 5	110	30	34	23
Werle, Louis, Warren, Pa. Attachment for tugs or traces	353,185	Nov. 23	2041	545	37	866
Werner, August, Leadville, Colo. Slag-cart	343,783	June 15	1475	370	35	1288
Werner, August, Leadville, Colo. Slag-cart	354,670	Dec. 21	1501	397	37	1292
Wernet, Henry, Canton, Ohio. Steam-kettle	335,663	Feb. 9	805	215	34	592
Wernicke, Eugenia, Berlin, Germany. Hand-weaving apparatus	334,320	Jan. 12	1177	315	34	226
Wertz, Daniel, assignor to J. W. Truxel, Sedalia, Mo. Bustle	341,062	May 4	145	43, 44	35	532
Werum, Phillip, Stryker, Ohio. Rope-clamp	340,645	Apr. 27	2221	582	35	417
Wescott, Earl A., and E. R. Bristol, Minneapolis, Minn. Car-brake	340,748	Apr. 27	2363	622	35	441
Wescott, Edwin J. (See Mason, Wescott, and Stevens.)						
Wesel, Ferdinand. (See Seger, Henry, assignor.)						
Wesler, Henry H., Newark, N. J. Shutter-worker	349,865	Sept. 28	1831	473	36	1412
Wessel, Heinrich, Hamburg, Germany. Barrel	351,551	Oct. 26	2097	544	37	403
Wessels, Edward J., Roselle, N. J. Electric railway-car illumination	348,603	Sept. 7	98	28	36	1065
Wesson, Abner, Memphis, Tenn. Stock-muzzle	348,438	Aug. 31	2792	750	36	1014
Wesson, Daniel B., Springfield, Mass. Reloading cartridge-pack	354,454	Dec. 14	1164	311	37	1226
Wesson, Isaac A., Wingo, Ky. Seed-planter	345,198	July 6	548	140	36	100

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
West, Arkansas, *et al.* (See Looney, John J., assignor.)						
West, Charles F., Philadelphia, Pa. Ice-creeper	346,338	July 27	2187	561	36	418
West, E. S. (See Wheeler, Jesse, assignor.)						
West, Ella E., New York, N. Y., assignor of one-half to J. P. Lindsay, West Derby, Vt. Garment-supporter	342,489	May 25	2117	559	35	922
West, Francis H., Milwaukee, Wis. Steam-trap	333,579	Jan. 5	112	31	34	24
West Haven Buckle Company. (See Hyde, James C., assignor.)						
West Haven Buckle Company. (See Kelsey, Jarvis E., assignor.)						
West, Henry F. (See Taylor, William W., assignor.)						
West, James J. (See Yaggy, Levi W., assignor.)						
West, James W., Bruce, Ill. Harrow	349,548	Sept. 21	1388	359	36	1320
West, Jonathan B., Rochester, assignor to L. N. Asiel & Co., and B. Galland, New York, N. Y. Holder for embroidery	340,265	Apr. 20	1681	428	35	312
West, Leander, Bakersville, Pa. Pipe-coupling	349,549	Sept. 21	1389	360	36	1320
West, M. Calvin. (See Yale, Charles O., assignor.)						
West, Marshall O., *et al.* (See Ingersoll, Simon, assignor.)						
West, Redfield B., Guilford, Conn. Preparing paper for photographic printing	341,083	May 4	146	.....	35	532
West, Redfield B., Guilford, Conn. Photographic printing	345,753	July 20	1374	.....	36	260
West, Redfield B., Guilford, Conn. Photographic printing	345,938	July 20	1631	.....	36	306
West, Thomas D., Cleveland, Ohio. Testing-machine	340,842	Apr. 27	2483	654	35	464
West, W. Scott, New York, N. Y. Elevated filter-bed	334,629	Jan. 19	1607	428, 429	34	311
Westaway, Walter C., Beloit, Wis. Windmill	355,236	Dec. 28	2305	607	37	1459
Westberg, Charles A., Chicago, Ill. Safety attachment for elevators	339,035	Mar. 30	2968	785	34	1486
Westbrook, Abraham D., Trenton, N. J. Belting	351,301	Oct. 19	1703	446	37	324
Westbrook, Frank A., and W. S. Cook, Port Jervis, N. Y. Car-coupling	342,658	May 25	2355	622	35	966
Westbrook, Frank A., and W. S. Cook, Port Jervis, N. Y. Car-coupling	346,791	Aug. 3	417	115	36	542
Westcott, Charles H. and F., Seneca Falls, N. Y. Fire-extinguisher	347,216	Aug. 10	1024	273	36	661
Westcott, Frank. (See Westcott, Charles H. and F.)						
Westcott, John H., Oneida, N. Y. Lathe-chuck	335,982	Feb. 9	1261	334	34	673
Westcott, John H., Oneida, N. Y. Lathe-chuck	343,411	June 8	953	238	35	1188
Westcott, John M. (See Conner and Westcott.)						
Westenhaver, Edward, assignor of one-half to F. M. Sturgis, Shelbyville, Ill. Oven for heating flat-irons	347,542	Aug. 17	1495	396	36	756
Westerbeck, Frederick, St. Louis, Mo. Shipping-can	351,010	Oct. 19	1315	345	37	253
Westerfield, Granville G., Shelbyville, Ind. Machine for gathering corn	351,302	Oct. 19	1704	446, 447	37	324
Westerlin, John M., Lake View, and A. Campbell, Chicago, Ill. Dash-pot	345,939	July 20	1632	420	36	306
Western Electric Company. (See Duplain, Francis P., assignor.)						
Western Electric Company. (See Haskins, Charles D., assignor.)						
Western Electric Company. (See Patterson, William R., assignor.)						
Western Electric Company. (See Scribner, Charles E., assignor.)						
Western Electric Company. (See Warner, Ernest P., assignor.)						
Western Union Telegraph Company. (See Field, Stephen D., assignor.)						
Western Union Telegraph Company of New York. (See Freir, Samuel P., assignor.)						
Western Union Telegraph Company of New York. (See Scott, D. Bryce, assignor.)						
Westervelt, Henry R., Taughannock Falls, N. Y. Station-indicator	348,366	Aug. 31	2683	722	36	993
Westgate, Ida H., assignor of one-half to H. Grant, Worcester, Mass. Dress-skirt	343,974	June 15	1719	439	35	1335
Westgate, Ida H., assignor of one-half to H. Grant, Worcester, Mass. Protector and stiffener	345,199	July 6	550	141	36	100
Westgate, Joseph D., assignor of three-fourths to F. N. Eddy, A. Elcock, and W. E. Hadwen, Worcester, Mass. Apparatus for measuring liquids and discharging the same into bottles	340,646	Apr. 27	2221	583	35	417
Westin, John F. (See Eklund and Westin.)						
Westinghouse, George. (See Reimmann and Ott, assignors.)						
Westinghouse, George, Jr. (See Brown, Arthur G., assignor.)						
Westinghouse, George, Jr. (See Byllesby, Henry M., assignor.)						
Westinghouse, George, Jr. (See Gaulard and Gibbs, assignors.)						
Westinghouse, George, Jr. (See Stanley, William, Jr., assignor.)						
Westinghouse, George, Jr. (See Verner, Morris S., assignor.)						
Westinghouse, George, Jr., Pittsburg, Pa. Conveying and supplying gas	333,800	Jan. 5	417	113	34	78
Westinghouse, George, Jr., Pittsburg, Pa. Preventing leakage in gas-mains	340,266	Apr. 20	1682	428	35	313
Westinghouse, George, Jr., Pittsburg, Pa. Pipe-joint for gas-mains	340,267	Apr. 20	1683	429	35	313
Westinghouse, George, Jr., Pittsburg, Pa. Pipe-joint for gas-mains	340,268	Apr. 20	1684	429	35	313
Westinghouse, George, Jr., Pittsburg, Pa. Pressure-regulator and cut-off	341,295	May 4	465	126	35	589
Westinghouse, George, Jr., Pittsburg, Pa. System of electrical distribution	342,552	May 25	2210	587	35	939
Westinghouse, George, Jr., Pittsburg, Pa. Induction-coil	342,553	May 25	2211	587, 588	35	939
Westinghouse, George, Jr., Pittsburg, Pa. Pipe-joint for gas-mains	342,659	May 25	2358	622	35	967
Westinghouse, George, Jr., Pittsburg, Pa. Detecting and carrying off leakage from gas-mains	344,701	June 29	2720	707	35	1532
Westinghouse, George, Jr., Pittsburg, Pa. Car-brake	345,093	July 6	409	104	36	74
Westinghouse, George, Jr., Pittsburg, Pa. Automatic brake-regulator	345,820	July 20	1468	379, 380	36	276
Westinghouse, George, Jr., Pittsburg, Pa. Proportional meter	347,673	Aug. 17	1697	452, 453	36	794
Westinghouse, George, Jr., Pittsburg, Pa. Telegraphic relay	352,725	Nov. 16	1391	377	37	734
Westinghouse, George, Jr., and F. Moore, Pittsburg, Pa. Dynamometer	349,130	Sept. 14	818	207, 208	36	1206
Westinghouse, George, Jr., and F. Moore, Pittsburg, Pa. Pressure-regulator and cut-off	352,382	Nov. 9	940	252	37	641
Westinghouse, George, Jr., and F. Moore, Pittsburg, Pa. Thermostat	353,186	Nov. 23	2043	546	37	866
Westinghouse, H. Herman, assignor to Westinghouse Machine Company, Pittsburg, Pa. Steam-engine	340,021	Apr. 13	1323	331	35	242
Westinghouse, H. Herman, assignor to Westinghouse Machine Company, Pittsburg, Pa. Steam-engine	340,022	Apr. 13	1326	331	35	242
Westinghouse Machine Company. (See Westinghouse, H. Herman, assignor.)						
Westlake, William, Brooklyn, N. Y. Platform for stoves. (Reissue)	10,734	June 8	1157	291	35	1224
Westlake, William, Brooklyn, N. Y. Car-lamp	354,455	Dec. 14	1166	312	37	1227
Westling, Adolph, Ortonville, Minn. Plow	338,897	Mar. 30	2767	729	34	1450
Weston and Wells Manufacturing Company. (See Wells, Joseph L., assignor.)						
Weston, David M. (See Foster, Charles H. W., assignor.)						
Weston, David M., Boston, Mass. Centrifugal machine	351,416	Oct. 26	1903	495	37	365
Weston, David M., Boston, Mass. Centrifugally-acting drying-machine for cloth, &c	353,390	Nov. 30	2323	621	37	925

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Weston, Edward, Newark, N. J. Testing incandescent electric lamps	334,147	Jan. 12	908	249	34	177
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Incandescent	334,142	Jan. 12	899	.....	34	175
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Switch or circuit controller	334,143	Jan. 12	900	246	34	175
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Electric-arc lamp	334,144	Jan. 12	901	247, 248	34	175
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Electrical indicator	334,145	Jan. 12	904	248	34	176
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Apparatus for treating carbons	334,146	Jan. 12	906	248	34	176
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Dynamo-electric machine	340,395	Apr. 20	1861	478	35	346
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Incandescent lamp	340,396	Apr. 20	1862	478	35	347
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Manufacture of carbon conductors for incandescent electric lights	340,397	Apr. 20	1863	478	35	347
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Rheostat	340,398	Apr. 20	1864	479	35	347
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Electrical indicator	340,399	Apr. 20	1865	479	35	347
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Incandescent-lamp holder	340,400	Apr. 20	1866	479	35	347
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Electrical switch	340,401	Apr. 20	1867	479	35	348
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Making incandescents	340,402	Apr. 20	1868	480	35	348
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Electric-current indicator	340,403	Apr. 20	1869	480	35	348
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. System for electric lighting	340,404	Apr. 20	1870	480	35	348
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Safety-strip for electric circuits	348,646	Sept. 7	154	43	36	1075
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Holder for incandescent lamps	348,647	Sept. 7	156	43	36	1076
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Ampère-meter	348,648	Sept. 7	157	43	36	1076
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Electric lighting system	348,649	Sept. 7	159	44	36	1076
Weston, James W., New York, N. Y. Fastener for barrel-heads, &c	333,704	Jan. 5	284	77	34	54
Weston, Thomas A., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Hoisting-machine	333,906	Jan. 5	558	150, 151	34	104
Weston, Walter C., *et al.* (See Smith, Daniel J., assignor.)						
Weston & Wells Manufacturing Company. (See Wells, Joseph L., assignor.)						
Westover, Charles H. and G. D., Cadillac, Mich. Car-coupling	337,540	Mar. 9	910	232	34	1096
Westover, George D. (See Westover, Charles H. and G. D.)						
Westphal, Otto, assignor to Schäffer & Budenberg, Buckau, near Magdeburg, Germany. Injector	345,200	July 6	551	141	36	100
Westwood, Felix, Wheeling, W. Va. Coat and hat rack	350,789	Oct. 12	970	260	37	184
Wetherby, Isaac A., Iowa City, Iowa. Revolving photographic background and foreground	337,304	Mar. 16	1371	356	34	1186
Wetherby, John A. (See Wetherby, Stephen D., assignor.)						
Wetherby, Stephen D., Bolivar, assignor to himself and J. A. Wetherby, Wellsville, N. Y. Vegetable-cutter	347,146	Aug. 10	931	248	36	644
Wethered, James S., San Francisco, Cal., assignor of one-half to I. D. Guyer, Chicago, Ill. Gas-burner	353,187	Nov. 23	2045	546	37	866
Wetherell, George F., and R. B. Jones, assignors of one-third to R. Richards, Chicago, Ill. Wood-planing or other machine	341,975	May 18	1377	367	35	780
Wetherill, Cotesworth P., Woodville, Miss. Screw-propeller	350,278	Oct. 5	243	71	37	51
Wetherill, John P., Bethlehem, Pa. Apparatus for filtering and separating metals	334,207	Jan. 12	1015	270, 271	34	196
Wetherill, John P., Bethlehem, Pa. Filtering and separating metals	334,208	Jan. 12	1017	271	34	197
Wetherill, Robert, Chester, Pa. Gripping device for wire-cable railways	340,405	Apr. 20	1871	481	35	349
Wetherwax, Charles, *et al.* (See Hyman, Samuel, assignor.)						
Wetherwax, Charles, *et al.* (See Tompkins, John D., assignor.)						
Wetmore, Jean A., Brooklyn, N. Y. Propelling cars by gas-motors	348,080	Aug. 24	2284	612	36	911
Wetmore, Lafayette, New Bremen, N. Y. Sheaf table and stand for thrashers	345,346	July 13	760	191	36	143
Wetmore, Sylvester J., Lowville, N. Y. Railway-gate	349,020	Sept. 14	664	171	36	1172
Wetmore, William H., Raleigh, N. C. Boot or shoe	336,775	Feb. 23	2408	633	34	891
Wetmore, William W., assignor to Winchester Repeating Arms Company, New Haven, Conn. Sight for fire-arms	338,898	Mar. 30	2768	729	34	1450
Wetsell, Horace A., Tracy, Minn. Thrashing-machine	336,366	Feb. 16	1846	484	34	782
Wetter, Joseph. (See Reinhardt, James H., assignor.)						
Wetzig, Charles. (See Stambaugh, Charles W., assignor.)						
Weyburn Company, L. A. (See Weyburn, Lewis A., assignor.)						
Weyburn, Elbert D., assignor to himself and Union Bag Machine Company, Chicago, Ill. Cording and boning attachment for sewing-machines	338,454	Mar. 23	2133	558	34	1333
Weyburn, Lewis A., assignor to L. A. Weyburn Company, Rockford, Ill. Harrow	352,383	Nov. 9	942	252	37	641
Weyburn, Lewis A., assignor to L. A. Weyburn Company, Rockford, Ill. Device for welding plowshares and landsides	355,110	Dec. 28	2115	556	37	1421
Weygant, Charles H., Newburg, N. Y. Hose-reel	344,554	June 29	2539	656	35	1496
Weymouth, George F., Dresden, assignor to H. Holt, Wilton, Me. Hay-knife. (Reissue)	10,715	Apr. 20	2062	531	35	384
Weymouth, Sandford K., Gardiner, Me. Combination-lock	336,188	Feb. 16	1579	415	34	735
Wezel, Julius, Reudnitz, near Leipsic, Germany. Artificial lithographic stone	333,801	Jan. 5	418	.....	34	79
Whalen, Timothy, Rochester, N. Y. Wagon-railway	353,391	Nov. 30	2324	622	37	925
Whaley, Thomas, assignor of one-half to J. E. McGrew and G. D. Johnstone, Aspen, Colo. Line-spacing device for type-writing machines	345,347	July 13	761	191	36	143
Whallon, Clement V. (See Bartmes, Whallon, and Frick.)						
Wharmby, Thomas W., Cleveland, Ohio. Ruling-machine	341,195	May 4	311	88	35	562
Wharry, James, *et al.* (See Rogers, Newton, assignor.)						
Wharry, John R., Moundsville, W. Va. Wagon-bed stay	342,660	May 25	2359	623	35	967
Wharry, John R., assignor of one-half to W. S. Freed, Moundsville, W. Va. Vegetable-slicer	340,843	Apr. 27	2485	654	35	464

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Wharton & Co., William, Jr. (See Samuel, Edward, assignor.)						
Wharton & Co., William, Jr. (See Samuel and Angerer, assignors.)						
Wharton & Co., William, Jr. (See Wharton and Samuel, assignors.)						
Wharton & Co., William, Jr. (See Wharton, William, Jr., assignor.)						
Wharton, John C. (See Morrison and Wharton.)						
Wharton Railroad Switch Company. (See Johnston, Edward H., assignor.)						
Wharton Railroad Switch Company. (See Wootten, John E., assignor.)						
Wharton, S. P. (See Patterson, James S., assignor.)						
Wharton, William, Jr., assignor to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Railway-switch	334,916	Jan. 26	1982	528	34	389
Wharton, William, Jr., and E. Samuel, assignors to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Switch for cable or other conduit railways	339,955	Apr. 13	1225	305	35	225
Wheater, George W., Ogdensburg, N. Y. Vertical-draft attachment	333,104	Nov. 23	1922	515	37	842
Wheatley, Harry D., Centreville, Ohio. Spring-clasp	343,877	June 15	1591	405	35	1310
Wheaton, Abram W., assignor of one-half to M. Wheaton, Newark, N. J. Stair-rod securer	349,550	Sept. 21	1390	360	36	1320
Wheaton, Frank, New York, N. Y., assignor to Wheaton Sub-Electric Conduit Company. Underground conduit for electric wires	346,250	July 27	2070	532	36	397
Wheaton, Matthias. (See Wheaton, Abram W., assignor.)						
Wheaton Sub-Electric Conduit Company. (See Wheaton, Frank, assignor.)						
Wheeler, Albion, Ridgeway, Iowa. Draft-equalizer	333,705	Jan. 5	286	78	34	54
Wheeler, Alden D., Boston, Mass., assignor to American Automatic Fire Alarm Association, Portland, Me. Automatic fire-alarm system	348,707	Sept. 7	241	64	36	1091
Wheeler, Brayton, Saginaw, Mich. Clamp for holding well tubes and poles	342,888	June 1	158	41	35	1035
Wheeler, Charles W., Newark, N. J. Making waistbands for garments	353,392	Nov. 30	2326	622	37	926
Wheeler, Clarence L., assignor of two-thirds to C. C. Gordorn and A. A. Bates, Sharon Valley, Conn. Padlock	339,956	Apr. 13	1227	305	35	225
Wheeler, Clark W., assignor of two-thirds to H. F. Hoehn and D. Toner, Kenosha, Wis. Buckle	340,469	Apr. 20	1959	503	35	364
Wheeler, David C. (See Wheeler, Dwight and D. C.)						
Wheeler, Dwight and D. C., assignors of one-third to J. A. Crofut Bridgeport, Conn. Tool-handle	348,145	Aug. 24	2365	634	36	926
Wheeler, E. A. (See Wood, Hermon G., assignor.)						
Wheeler, Edgar L., Marlborough, Mass Nail-driving machine	334,552	Jan. 19	1504	403	34	291
Wheeler, Edward H., Waterbury, Conn. Spring-balance lamp	343,093	June 1	454	115 116	35	1089
Wheeler, Edward H., Waterbury, Conn. Tape-measure	348,805	Sept. 7	358	97	36	1114
Wheeler, Elbridge, assignor to himself, W. B. Gay, and G. W. Gogin, trustees, Boston, Mass. Guide for molds for compound ingots	354,284	Dec. 14	947	250	37	1185
Wheeler, Emory A., Chicago, Ill. Can-opener	347,674	Aug. 17	1700	453	36	795
Wheeler, Eugene M., and S. Z. Hall, Little Rock, Ark. Cotton-gin	343,934	June 15	1659	436	35	1325
Wheeler, Ferdinand, Pine Grove, Pa. Hinge	344,149	June 22	1973	504	35	1386
Wheeler, Frank L., Westfield, Mass. Double-acting pump	336,459	Feb. 16	1974	517	34	805
Wheeler, Frank W., Richford, Vt. Nail	335,983	Feb. 9	1262	335	34	673
Wheeler, Frederick G., New York, N. Y. Heating water in steam-generators	352,283	Nov. 9	813	217 218	37	615
Wheeler, Hiland H., Lincoln, Nebr. Copy-holder	343,935	June 15	1660	426	35	1325
Wheeler, James, Ilfracombe, county of Devon, England. Combined paper-knife, clip, and book-rest	341,976	May 18	1378	367 368	35	780
Wheeler, Jesse, assignor of one-half to E. S. West, Brownsville, Mo. Wheel-plow	335,492	Feb. 2	561	147	34	541
Wheeler, John C., and M. Cokely, Flushing, N. Y. Pulley-pattern-molding press	342,239	May 18	1728	459	35	846
Wheeler, John W. (See Duryee, Albertus R., assignor.)						
Wheeler, Lambert, assignor to L. Wheeler, Allentown, N. Y. Rope-jar	335,493	Feb. 2	562	147	34	541
Wheeler, Lizzie. (See Wheeler, Lambert, assignor.)						
Wheeler, Marshal. (See Lyman and Wheeler.)						
Wheeler, Marshal, Washington, D. C. Auxiliary governing-spring for time-pieces	336,460	Feb. 16	1975	518	34	805
Wheeler, Marshal, Washington, D. C. Breech-loading ordnance	343,556	June 8	1148	290	35	1222
Wheeler, Mary A., Rochester, N. Y. Alloy	354,995	Dec. 28	1949		37	1390
Wheeler, Merritt P., Winnebago Agency, Nebr. Nut-lock	343,285	June 8	744	185	35	1150
Wheeler, Paris H., Washington, D. C. Photographic-plate holder	346,392	July 27	2265	580	36	433
Wheeler, Philip H., assignor to Columbus Watch Company, Columbus, Ohio. Watch-regulator	354,283	Dec. 14	946	249	37	1184
Wheeler, Richmond W., and S. Q. Duntley, assignors to Bushnell Pump Company, Bushnell, Ill. Pump-bucket	333,802	Jan. 5	418	113	34	79
Wheeler, Robert, Okalona, Miss. Wheel-harrow	339,957	Apr. 13	1229	306	35	225
Wheeler, Samuel L. (See Barnard, Henry A., assignor.)						
Wheeler, Schuyler S. (See Curtis and Wheeler.)						
Wheeler, Schuyler S., New York, N. Y. System of electrical distribution	335,099	Jan. 26	2237	594	34	434
Wheeler, Schuyler S., assignor to Edison Electric Light Company, New York, N. Y. System of electrical distribution	335,048	Jan. 26	2164	575 576	34	420
Wheeler, Schuyler S., and C. G. Curtis, New York, N. Y., assignors to C. & C. Electric Motor Company. Dynamo-electric machine and electric motor	354,588	Dec. 21	1365	362	37	1268
Wheeler, Seth, Albany, N. Y. Toilet-paper fixture	341,109	May 11	1031	273	35	707
Wheeler, Thaddeus R., Canandaigua, N. Y. Wagon-brake	354,756	Dec. 21	1622	429	37	1315
Wheeler, Thomas W., assignor of one-half to A. Murray, Washington, D. C. Process of and apparatus for distilling wood	353,998	Dec. 7	505	136	37	1098
Wheeler, William H., *et al.* (See Jarman, George R., assignor.)						
Wheeler, William H., Beloit, Wis. Windmill	335,864	Feb. 9	1094	289 290	34	645
Wheeler, William H., York, Pa. Governor	343,683	June 15	1335	333	35	1262
Wheeler, William H., York, Pa. Balanced slide-valve	348,254	Aug. 31	2540	682	36	964
Wheeler, William H., assignor of one-half to G. W. S. Loucks, York, Pa. Pump-piston	349,830	Sept. 28	1788	462	36	1404
Wheeler & Wilson Manufacturing Company. (See Bayley, Charles H., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Beers, Philo M., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Dial, Wilbur F., assignor.)						
Wheelock, Aaron L., Buffalo, N. Y. Nail-holder	337,905	Mar. 16	1372	356	34	1186
Wheelock, Charles B. (See Stetson, Amos H., assignor.) (Reissue.)						
Wheelock, Jerome, Worcester, Mass. Operating-lever for pumping machinery	349,551	Sept. 21	1391	360	36	1321
Wheelwright, Charles S., Providence, R. I. Digester or converter, &c	337,720	Mar. 9	1128	291	34	1134
Wheelwright, Charles S., Providence, R. I. Digester or converter	337,721	Mar. 9	1129	291	34	1134
Wheelwright, John T. (See Little, Arthur D., assignor.)						
Whelan, Robert, Chicago, Ill. Steam-boiler furnace	341,196	May 4	311	88	35	562
Whelan, Thomas P., assignor of two-thirds to W. Geariety and E. S. Henry, Cleveland, Ohio. Three-way split-switch	351,417	Oct. 26	1904	495	37	365

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Whelen, James N. (See Tevis, Edwin L., assignor.)						
Wheless, Malone, and J. D. Darden; said Wheless assignor to said Darden, Washington, D. C. Telephone-transmitter	352,900	Nov. 16	1617	435	37	776
Wherry, David G., Alexandria, Nebr. Rotary steam-engine	335,001	Jan. 26	2089	558	34	408
Wherry, John, Jr., Putnam, Ill. Automatic grain-weighing apparatus	337,906	Mar. 16	1373	356, 357	34	1186
Wherry, John R., and H. H. Rottaken, Little Rock, Ark. Fare-box	351,011	Oct. 19	1316	345	37	253
Whidden, Joseph E., South Abington, Mass. Key-fastener	342,554	May 25	2212	588	35	939
Whidden, Joseph E., South Abington, Mass. Window-fastener	344,888	July 6	135	34	36	24
Whipple, Alphonzo, *et al.* (See Eastin, Arthur L., assignor.)						
Whipple, Effinger E., Eaton Rapids, Mich. Running-gear for wagons	340,647	Apr. 27	2223	583	35	417
Whipple, Effinger E., Eaton Rapids, Mich. Cultivator	343,936	June 15	1662	426	35	1325
Whipple, Fenner E. (See Stafford and Whipple.)						
Whipple, Henry J. P., Cleveland, Ohio. Door-bell	349,552	Sept. 21	1392	361	36	1321
Whipple, John H. (See Bachand, Levi N., assignor.)						
Whipple, Leander E., Hartford, Conn. Tool for uniting wires	347,675	Aug. 17	1701	453	36	795
Whitaker, Aquilla B., *et al.* (See Gorrell, Charles L., assignor.)						
Whitaker, Channing, *et al.* (See Lawrence, Alvin, assignor.)						
Whitaker, Charles, St. Louis, Mo. Fastening screen-cloth to doors	353,724	Dec. 7	107	29	37	1026
Whitaker, David W., assignor of one-half to J. E. Lyon, Durham, N. C. Printer's galley	335,494	Feb. 2	563	148	34	542
Whitaker, David W., assignor of one-half to J. E. Lyon, Durham, N. C. Printer's galley	337,218	Mar. 2	445	116	34	1008
Whitaker, Edwin V., Gloversville, N. Y. Glove	348,806	Sept. 7	361	97	36	1114
Whitaker, Edwin V., Gloversville, N. Y. Glove	348,807	Sept. 7	361	97	36	1114
Whitaker, John H., Davenport, Iowa. Harness	336,367	Feb. 16	1847	484	34	782
Whitaker, John H., Davenport, Iowa. Tubular sawing-machine	342,661	May 25	2360	623	35	967
Whitaker, John H., Davenport, Iowa. Harness	350,854	Oct. 12	1070	286	37	202
Whitaker, Octavian M., *et al.* (See Gorrell, Charles L., assignor.)						
Whitaker, William W., assignor to J. McKee, Gloversville, N. Y. Glove and making the same	348,439	Aug. 31	2793	750, 751	36	1014
Whitall, Tatum & Co. (See Tatum, Charles A., assignor.)						
Whitbread, John H. (See Evans, Edward, assignor.)						
Whitby, Joseph, Yeovil, county of Somerset, England. Making button-holes in leather gloves	335,865	Feb. 9	1096	290	34	645
Whitcher, Frank W., *et al.* (See Stetson, Charles T., assignor.)						
Whitcher, Oscar W., *et al.* (See Stetson, Charles T., assignor.)						
Whitcomb, Edward A., and J. J. Riddle, assignors of part to M. E. King, Cincinnati, Ohio. Flux for welding	341,784	May 11	1119	.....	35	724
Whitcomb, Edward A., and J. J. Riddle, assignors of nine-sixteenths to M. E. King, Cincinnati, Ohio. Welding-flux	341,785	May 11	1120	.....	35	724
Whitcomb, George D., Chicago, Ill. Mining-machine	335,328	Feb. 2	337	88, 89	34	502
Whitcomb, Orson D., Rodman, N. Y. Trestle	342,153	May 18	1620	434	35	826
Whitcomb, William H. (See Gould and Cook, assignors.)						
White, Albert, Lowell, Mass. Lamp-chimney cleaner	341,296	May 4	467	126	35	590
White, Benjamin P., East Lyme, Mo. Churn	349,376	Sept. 21	1152	298	36	1274
White, Charles, Washington, D. C. Hot-air furnace	340,844	Apr. 27	2486	655	35	464
White, Charles, assignor to B. B. and H. W. Friedenwald, Baltimore, Md. Fluid-ejector	346,792	Aug. 3	418	115	36	542
White, Charles, assignor to B. B. and H. W. Friedenwald, Baltimore, Md. Fluid-ejector	346,878	Aug. 3	541	147	36	565
White, Charles, assignor to B. B. and H. W. Friedenwald, Baltimore, Md. Fluid-ejector	346,967	Aug. 10	668	178	36	596
White, Charles, assignor to B. B. and H. W. Friedenwald, Baltimore, Md. Fluid-ejector. (Reissue)	10,786	Nov. 30	2733	728	37	1000
White, Charles E. (See Atkinson and White.)						
White, Charles E., and J. Morphy, assignors to Deere & Mansur Company, Moline, Ill. Corn and seed planter	343,286	June 8	744	185, 186	35	1150
White, Charles H., New York, N. Y. Latch-lock for car-doors	352,213	Nov. 9	792	193	37	598
White, Charles P., Taunton, Mass. Fire-grate	342,410	May 25	2010	530	35	903
White, Charles P., assignor to White, Walker & Company, Taunton, Mass. Stove	348,808	Sept. 7	362	98	36	1115
White, Charles V., Leavenworth, Kans. Shutter-fastener	345,348	July 13	763	191	36	143
White, Corbin & Company. (See Woodford, Edwin H., assignor.)						
White Dental Manufacturing Company, S. S. (See Browne, Arthur W., assignor.)						
White Dental Manufacturing Company, S. S. (See Elliott, Walter S., assignor.)						
White Dental Manufacturing Company, S. S. (See Eschauzier, Francis, assignor.)						
White Dental Manufacturing Company, S. S. (See Gilbert, William H., assignor.)						
White Dental Manufacturing Company, S. S. (See Johnston and Browne, assignors.)						
White Dental Manufacturing Company, S. S. (See Miller, William B., assignor.)						
White Dental Manufacturing Company, S. S. (See Richmond, Cassius M., assignor.)						
White Dental Manufacturing Company, S. S. (See Starr, Eli T., assignor.)						
White Dental Manufacturing Company, S. S. (See White, James W., assignor.)						
White Dental Manufacturing Company, S. S. (See Williams, James L., assignor.)						
White, Edward H., Meriden, Conn. Apparatus for bending and voicing musical reeds	336,368	Feb. 16	1848	485	34	782
White, Ferdinand R., San Francisco, Cal. Envelope	341,297	May 4	468	126	35	590
White, Florence D. (See White, James T., assignor.)						
White, Frank C., Woodbury, N. J. Bottle-stopper	337,541	Mar. 9	911	233	34	1096
White, Frederick, Westborough, Mass., assignor to Boston Wheel Company, Bangor, Me. Tricycle	336,968	Mar. 2	110	30, 31	34	946
White, Frederick A., Rochester, N. Y. Hay-carrier	334,917	Jan. 26	1983	528	34	389
White, Frederick S., Cleveland, Ohio. Grinding apparatus	335,984	Feb. 9	1262	335	34	673
White, George, assignor to A. N. Burdick Manufacturing Company, New York, N. Y. Compound for perfecting the combustion of coal or other fuel	347,078	Aug. 10	839	.....	36	627
White, George A., Boston, Mass. Knitting-machine	336,611	Feb. 23	2180	569, 570	34	847
White, George F., Middletown, N. Y. Car-coupling	349,866	Sept. 28	1832	473	36	1413
White, George S., Danbury, Conn. Holder for lamp-burners	346,968	Aug. 10	669	178	36	597
White, George S., Danbury, Conn. Toaster and broiler	353,339	Nov. 30	2251	602	37	911
White, George W., Belle Mina, Ala. Nut-lock	333,580	Jan. 5	114	31	34	24
White, Henry P., assignor of one-half to C. S. Maynard, Paw Paw, Mich. Combined roller and pulverizer	343,619	June 15	1246	313	35	1247
White, Heman M., New York, N. Y. Sheet-tobacco	347,906	Aug. 24	2032	537	36	864
White, Hugh. (See Berray, Shepard, and White.)						
White, Isaac G., Adams, Ind. Wire fence	349,377	Sept. 21	1153	299	36	1274
White, James E., Malden, Mass. Door-securer	350,332	Oct. 5	312	89	37	63
White, James T., San Francisco, Cal. Anatomical chart	342,154	May 18	1621	434	35	826
White, James T., assignor to F. D. White, San Francisco, Cal. Anatomical chart. (Reissue)	10,790	Dec. 14	1275	340	37	1246
White, James W., Beverly, Mass. Pattern and work holding device	343,215	June 8	640	159	35	1132

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
White, James W., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Artificial tooth	339,958	Apr. 13	1229	306	35	226
White, John A. (See Cushman, Abe L., assignor.)						
White, John D., Worthington, Iowa. Draft-equalizer	344,702	June 29	2721	707	35	1533
White, John E., Syracuse, N. Y. Circuit-closing thermometer	347,851	Aug. 24	1949	518	36	850
White, John M., Terra Haute, Ind. Car-coupling	345,560	July 13	1090	278	36	202
White, John W. (See Farmer and White.)						
White, John W., *et al.* (See Shaw, Henry F., assignor.)						
White, John W., Elkhart, Ind. Gate	337,907	Mar. 16	1374	357	34	1186
White, Joseph A., and J. W. Gray, Hartford, Conn.; said White assignor to said Gray. Sprinkler	347,405	Aug. 17	1297	346	36	721
White, Joseph B., Brooklyn, N. Y. Stop for expansion-joints	337,037	Mar. 2	210	55	34	964
White, Joseph P. (See Harden and White.)						
White, Joseph W., assignor of one-half to W. S. Tyler, Cleveland, Ohio. Tension-regulating rolls for wire-looms	348,081	Aug. 24	2286	612 / 613	36	911
White, Leonard A., Taunton, Mass. Stove-caster	343,511	June 8	1087	273	35	1211
White, Leonard A., Taunton, Mass. Stove	350,333	Oct. 5	313	89	37	64
White, Leonard A., Taunton, Mass. Horse-blanket holder	354,365	Dec. 14	1052	281	37	1206
White, Lewis B., Norfolk, Va. Plow	339,508	Apr. 6	565	136 / 137	35	104
White, Lewis B., New York, N. Y., assignor to L. Abbett, Jersey City, N. J. Grip for cable railways	349,867	Sept. 28	1833	474	36	1413
White, Lewis B., New York, N. Y., assignor to L. Abbett, Jersey City, N. J. Conduit for cable railways	349,868	Sept. 28	1834	474	36	1413
White, Lewis B., New York, N. Y., assignor to L. Abbett, Jersey City, N. J. Cable-grip	350,028	Sept. 28	2047	528	36	1453
White, Lewis B., New York, N. Y., assignor to L. Abbett, Jersey City, N. J. Track-gripping device for railway-cars	350,090	Sept. 28	2136	552	36	1470
White, Lewis B., New York, N. Y., assignor to L. Abbett, Jersey City, N. J. Cable-railway car	350,091	Sept. 28	2137	553	36	1470
White, Lewis B., New York, N. Y., assignor to L. Abbett, Jersey City, N. J. Hydrocarbon-burner	353,105	Nov. 23	1923	516	37	843
White, Lewis B., D. Jackson, and M. Van Buren, New York, N. Y., assignors to L. Abbett, Jersey City, N. J. Device for regulating and enriching illuminating-gas	341,197	May 4	313	89	35	562
White, Louis H., St. Augustine, Fla., assignor to S. M. Bixby, New York, N. Y. Handled blacking-box	353,725	Dec. 7	108	29	37	1026
White, Louis L., Portland, Oreg. Music-leaf turner	340,749	Apr. 27	2364	623	35	441
White, Maurice W., assignor of one-half to G. W. Ross, Somerville, Mass. Violin	350,962	Oct. 19	1214	322	37	235
White, Maurice W., assignor of one-half to G. W. Ross, Somerville, Mass. Stringed musical instrument	353,277	Nov. 23	2163	579	37	889
White, Nicholas, Chicago, Ill. Lever and fulcrum	336,189	Feb. 16	1581	415	34	735
White, Patrick F., Western Port, Md. Car-wheel lubricator	336,461	Feb. 16	1977	518	34	805
White, Patrick J., St. Louis, Mo. Valve	340,470	Apr. 20	1960	503	35	364
White, Peter, St. Louis, Mo. Stop-box	346,969	Aug. 10	670	178	36	597
White, Peter, St. Louis, Mo. Tank-valve	354,285	Dec. 14	948	250	37	1185
White, Reynolds T., Boston, Mass. Machine for mortising, boring, molding, rosette-cutting, &c.	345,010	July 6	308	77, 78	36	56
White, Rollin, Lowell, Mass. Die for drawing shells or hollow articles	346,522	Aug. 3	94	25	36	478
White, Rollin, Lowell, Mass. Punch and die for trimming shells	348,440	Aug. 31	2795	751	36	1015
White, Rollin, Lowell, Mass. Device for trimming cartridge-shells	348,441	Aug. 31	2796	751	36	1015
White, Rollin, Lowell, Mass. Device for drawing metal	353,188	Nov. 23	2046	546	37	866
White, Rollin, Lowell, Mass. Socket for punches	353,189	Nov. 23	2048	546	37	867
White, Rollin, Lowell, Mass. Machine for drawing cartridge-shells	353,190	Nov. 23	2049	547	37	867
White, Rollin, Lowell, Mass. Device for regulating the movement of oscillating shafts	353,191	Nov. 23	2051	547	37	868
White, Rollin, Lowell, Mass. Socket for punches	353,192	Nov. 23	2053	547	37	868
White, Samuel O., Windsor Locks, Conn. Chuck	347,676	Aug. 17	1702	453	36	795
White Sewing Machine Company. (See Whitney, Ruel W., assignor.)						
White, Solomon, Toledo, Ohio. Sun-shield for horses	338,899	Mar. 30	2770	729	34	1450
White, Thomas, New York, N. Y. Stocking-supporter	341,710	May 11	1032	273	35	708
White, Thomas F. (See Barber and White.)						
White, Thomas H. (See Holden, Brooke, and White.)						
White, Thomas H., Salford, Manchester, county of Lancaster, assignor to J. Holroyd, Manchester, England. Steam-boiler feeder	343,878	June 15	1592	405	35	1310
White, Thomas H., Salford, Manchester, county of Lancaster, assignor to J. Holroyd, Manchester, England. Injector	349,191	Sept. 14	898	231	36	1216
White, Thomas M. (See Gregory, Albert M., assignor.)						
White, Thomas S., Benton, Ill. Door	347,852	Aug. 24	1951	518	36	850
White, Walker & Company. (See White, Charles P., assignor.)						
White, Wells H., Troy, Ohio. Rein-holder	344,297	June 22	2180	559	35	1424
White, William, Jr., Pittsburg, Pa. Packing	337,100	Mar. 2	290	77	34	980
White, William A., Staatsburg, N. Y. Trellis for garden-crops	334,918	Jan. 26	1984	529	34	389
White, William R., Neoga, Ill. Gate-actuating mechanism	349,869	Sept. 28	1835	474	36	1413
Whited, Charles W., assignor of one half to W. H. Pettibone, Battle Creek, Mich. Automatic railway-track key	336,190	Feb. 16	1582	416	34	735
Whited, Charles W., assignor of one-half to W. H. Pettibone, Battle Creek, Mich. Electric time register and alarm	338,323	Mar. 23	1949	513	34	1301
Whited, Willis, Lachine, Quebec, Canada. Punching-machine	335,866	Feb. 9	1097	290	34	646
Whitefield, Lillian, Reading, Mass. Compound for transferring designs to surfaces from perforated patterns	351,949	Nov. 2	320	.....	37	517
Whitehead, Benjamin S., Newark, N. J. Bicycle	341,526	May 11	768	207	35	656
Whitehead, Lewis, Chicago, Ill. Merchandise-receptacle	338,810	Mar. 30	2639	695	34	1427
Whitehead, Henry W. (See Smith and Whitehead.)						
Whitehead, Henry W. (See Speight and Whitehead.)						
Whitehead, John D., Northumberland, Pa. Car-coupling	345,349	July 13	764	192	36	143
Whitehead, Stanley E. (See Freeman and Whitehead.)						
Whitehead, William, and F. W. Maguire, Philadelphia, Pa. Clutch for machinery	336,273	Feb. 16	1714	447	34	757
Whitehead, William C. (See Godman, Solomon C., assignor.)						
Whitehurst, Esir D., Glen Rose, Tex. Planter	346,793	Aug. 3	419	116	36	542
Whitehurst, Robert W., assignor of one-half to M. L. Wrenn, Norfolk, Va. Dry-goods display-rack	339,081	Mar. 30	3030	800	34	1495
Whitehill, Robert. (See Dixon, Charles A., assignor.)						
Whiteley, James H., Arlington, assignor of one-fourth to T. Mackenzie, Jr., Baltimore, Md. Draw-iron for street-cars	342,662	May 25	2361	623	35	967
Whiteley, Joseph, Salford, county of Lancaster, England. Tread, step, mat, matting, &c.	344,703	June 29	2722	707 / 708	35	1533

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Whiteley, Joseph, Salford, county of Lancaster, England. Tread, step, or mat	344,704	June 29	2723	708	35	1533
Whiteley, William N. (See Dicus, James A., assignor.)						
Whiteley, William N. (See Garvin and Clokey, assignors.)						
Whiteley, William N., Springfield, Ohio. Drive-chain	333,803	Jan. 5	420	113	34	79
Whiteley, William N., Springfield, Ohio. Drive-chain	333,804	Jan. 5	421	114	34	79
Whiteley, William N., Springfield, Ohio. Main wheel for harvesters	338,376	Mar. 23	2029	532	34	1314
Whiteley, William N., Springfield, Ohio. Grain-wheel adjuster for harvesters	342,663	May 25	2362	624	35	967
Whiteley, William N., Springfield, Ohio. Knotter for grain-binders	346,393	July 27	2266	589 / 581	36	433
Whiteley, William N., Springfield, Ohio. Harvester	347,677	Aug. 17	1702	454	36	795
Whiteley, William N., Springfield, Ohio. Ejector for automatic grain-binders	348,255	Aug. 31	2541	682	36	964
Whiteley, William N., Springfield, Ohio. Harvester-frame	348,304	Aug. 31	2609	702	36	978
Whiteley, William N., Springfield, Ohio. Grain-binder	350,404	Oct. 5	394	113	37	79
Whiteley, William N., Springfield, Ohio. Harvesting-machine	351,891	Nov. 2	228	64 65	37	500
Whiteley, William N., and W. Bayley, Springfield, Ohio. Harvester	345,094	July 6	410	104 / 105	36	75
Whiteley, William N., and W. Bayley, Springfield, Ohio; said Bayley assignor to said Whiteley. Harvester and binder	337,220	Mar. 2	449	117	34	1009
Whiteley, William N., and W. Bayley, Springfield, Ohio; said Bayley assignor to said Whiteley. Automatic binder	354,286	Dec. 14	949	250	37	1185
Whiteley, William N., W. Bayley, and S. Dyer, Springfield, Ohio. Knotting device for grain-binders	333,907	Jan. 5	560	151 / 152	34	105
Whiteman, Owen L., assignor to himself and C. B. Hosford, Haydenville, Mass. Valve	351,142	Oct. 19	1493	391	37	286
Whiteside, Marcellus S., Mexico, Mo. Remedy for hog-cholera	340,648	Apr. 27	2226	.....	35	417
Whitin, Arthur F., *et al.* (See Whitney, Daniel D., assignor.)						
Whitin Machine Works. (See Clark, George H., assignor.)						
Whitin Machine Works. (See Taft, Gustavus E., assignor.)						
Whiting, D. J. (See Lockwood, Samuel T., assignor.)						
Whiting, Harold, Cambridge, Mass. Electrical device for synchronizing clock-pendulums	346,970	Aug. 10	671	179	36	597
Whiting, Henry B., assignor to A. D. and G. W. Hendrick, New Haven, Conn. Lime-holder	338,212	Mar. 16	1796	468	34	1265
Whiting, Henry W., assignor of two-thirds to A. E. Peterson and J. H. C. Whiting, Philadelphia, Pa. Apparatus for burning hydrocarbon oils. (Reissue)	10,699	Mar. 9	1241	322	34	1156
Whiting, James H., Flint, Mich. Wagon	339,959	Apr. 13	1231	306	35	226
Whiting, James H., Flint, Mich. Running-gear for wagons	345,201	July 6	552	141	36	101
Whiting, John H. C., *et al.* (See Whiting, Henry W., assignor.) (Reissue.)						
Whiting, Lewis D., assignor of one-half to E. L. Frost, Southington, Conn. Sled	336,274	Feb. 16	1715	447 / 448	34	757
Whiting, William F., Norwood, R. I. Watch chain swivel	337,908	Mar. 16	1375	357	34	1186
Whiting, William H. H., Chelsea, Mass. Apparatus for washing photographic negatives	335,002	Jan. 26	2091	558	34	408
Whiting, William M., Elizabeth, N. J. Grain-binder elevator	337,643	Mar. 9	1632	265	34	1119
Whiting, William M., New York, N. Y. Cord-alarm for grain-binders	341,298	May 4	469	126	35	590
Whitinsville Spinning Ring Company. (See Trowbridge, Charles E., assignor.)						
Whitlatch, James M., Verona, Pa. Machine for preparing roofing-sheets	341,527	May 11	770	207	35	656
Whitlock, Horace B., *et al.* (See Wiser, David, assignor.)						
Whitlock, James G., Richmond, Va. Stove-door handle	338,455	Mar. 23	2136	558	34	1333
Whitlock, James G., Richmond, Va. Stove-door handle	338,456	Mar. 23	2138	559	34	1334
Whitlock, James G., Richmond, Va. Sad-iron	338,457	Mar. 23	2139	559	34	1334
Whitlock, James G., Richmond, Va. Fitting for steam and other valves	342,853	June 1	105	27	35	1025
Whitlock, James H., Bremond, Tex. Sash-holder	335,262	Feb. 2	251	66	34	485
Whitman, Emma J., Oakland, Cal. Combined press-board and sleeve-pressing frame	347,853	Aug. 24	1952	518	36	851
Whitman, Gilbert P., Manchester, N. H. Expanding compression-roll for slashers, &c.	342,889	June 1	159	41	35	1035
Whitman, Ira A., *et al.* (See Eirick, Luther M., assignor.)						
Whitman, James E., and E. M. Brown, Spring Valley, Minn. Ink-well cover	334,148	Jan. 12	909	249	34	177
Whitman, Orrin M., Boston, Mass. Refrigerator	337,909	Mar. 16	1376	357	34	1187
Whitmarsh, Henry C., Brooklyn, assignor of one-half to C. C. Carpenter, New York, N. Y. Suspenders	346,626	Aug. 3	225	61	36	504
Whitmarsh, Samuel P., Palmyra, Mich. Apparatus for heating buildings	346,794	Aug. 3	421	116	36	542
Whitmore, Charles J., De Witt, N. Y. Sliding-door lock	352,018	Nov. 2	419	113	37	536
Whitmore, Edwin W., Worcester, Mass. Boot-free	338,575	Mar. 23	2289	600	34	1339
Whitmore, Samuel K., assignor of one-third to S. Gibbs, Knox, Pa. Sucker-rod for oil-wells	338,653	Mar. 23	2398	631	34	1379
Whitmore, William R., Newburyport, Mass. Printer's quoin	334,500	Jan. 19	1431	385	34	279
Whitner Automatic Safety Brake Company. (See Whitner, Hiram K., assignor.)						
Whitner, Hiram K., New York, N. Y. Automatic brake for railway-cars	338,213	Mar. 16	1796	469	34	1265
Whitner, Hiram K., New York, N. Y. Brake	338,900	Mar. 30	2771	730	34	1450
Whitner, Hiram K., New York, N. Y. Railway-brake	340,531	Apr. 20	2049	527	35	381
Whitner, Hiram K., New York, N. Y., assignor to Whitner Automatic Safety Brake Company, New Haven, Conn. Automatic brake for railway-cars	354,077	Dec. 7	614	169	37	1119
Whitney, Amos. (See Costain, Richard J., assignor.)						
Whitney, Arthur E., Winchester, Mass. Cylinder for hide-working machines	341,977	May 18	1379	368	35	780
Whitney, Baxter D., Winchendon, Mass. Gearing	342,664	May 25	2362	624	35	968
Whitney, Baxter D., Winchendon, Mass. Gearing	343,094	June 1	456	116	35	1089
Whitney, Baxter D., Winchendon, Mass. Gearing	343,352	June 8	863	217	35	1171
Whitney, Baxter D., Winchendon, Mass. Gearing	343,937	June 15	1663	427	35	1325
Whitney, Baxter D., Winchendon, Mass. Machine for smoothing wood surfaces	351,676	Oct. 26	2285	591 / 592	37	437
Whitney, Charles, Sycamore, Ill. Harvesting-machine	334,498	Jan. 19	1427	384	34	278
Whitney, Charles, Sycamore, Ill. Grain-binder	334,499	Jan. 19	1429	385	34	278
Whitney, Charles A., Waltham, Mass. Furniture-caster	351,418	Oct. 26	1906	496	37	365
Whitney & Co., E. (See Lenau, Louis, assignor.)						
Whitney, Daniel D., Cornwall, N. Y., assignor to A. F. Whitin, Whitinsville, Mass., and W. H. Vail, Cornwall-on-the-Hudson, N. Y. Thill-coupling	340,964	Sept. 28	1960	506	36	1437
Whitney, Daniel D., Cornwall, N. Y., assignor to A. F. Whitin, Whitinsville, Mass., and W. H. Vail, Cornwall-on-the-Hudson, N. Y. Lock for wagon end-gates	340,965	Sept. 28	1961	507	36	1437
Whitney, Daniel D., Cornwall, N. Y., assignor to A. F. Whitin, Whitinsville, Mass., and W. H. Vail, Cornwall, N. Y. Wagon-seat lock	352,384	Nov. 9	942	252	37	641
Whitney, Edwin H. (See Grater, Whitney, and Manton.)						
Whitney, Edwin H., assignor to American Ship-Windlass Company, Providence, R. I. Locking-gear for windlasses	344,023	June 22	1790	461	35	1354
Whitney, Edwin H., assignor to American Ship Windlass Company, Providence, R. I. Windlass-beam	348,370	Aug. 31	2696	724	36	995
Whitney, Edwin R., assignor to Forsaith Electrical Machine Company, Manchester, N. H. Safety cut-out for electric circuits	350,648	Oct. 12	782	213	37	149
Whitney, Eli, and W. C. Scharf, New Haven, Conn.; said Scharf assignor to said Whitney. Magazine fire-arm	354,757	Dec. 21	1623	429 / 430	37	1315

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Whitney, Erastus P., New York, N. Y. Button and fastening	338,377	Mar. 23	2030	533	34	1314
Whitney, Erastus P., New York, N. Y. Button and fastening	346,523	Aug. 3	95	25	36	478
Whitney, Francis A. (See Gane, George A., assignor.)						
Whitney, Frank E., Melrose, Mass. Manufacture of twist-drills	341,084	May 4	147	44	35	532
Whitney, Howard C., Albany, N. Y. Combined blotting-pad and memorandum-book	337,101	Mar. 2	290	77	34	980
Whitney, James A., Brooklyn, N. Y. Apparatus for making plumbers' traps	335,407	Feb. 2	447	116	34	521
Whitney, Joel F., and M. R. Hubbell, Wolcott, Vt. Barbed fence	344,428	June 29	2363	608	35	1465
Whitney, John R., Radnor, Pa. Process of and mold for casting	352,792	Nov. 16	1476	398	37	750
Whitney, John R., Radnor, Pa. Chill for casting car-wheels	352,793	Nov. 16	1477	399	37	750
Whitney, John R., Radnor, Pa. Core for casting	354,287	Dec. 14	950	251	37	1185
Whitney, Josiah D., Brattleborough, Vt. Manufacture of reeds for musical instruments	338,007	Mar. 16	1526	396	34	1213
Whitney, Moses W., Bristol, R. I. Method of and apparatus for forming bottoms of rubber shoes	337,467	Mar. 9	818	207	34	1080
Whitney Organ Company. (See Votey, Edwin S., assignor.)						
Whitney, Ruel W., assignor to White Sewing Machine Company, Cleveland, Ohio. Tension-release for sewing-machines	344,429	June 29	2364	609	35	1465
Whitney, Ruel W., assignor to White Sewing Machine Company, Cleveland, Ohio. Combined brake and belt-shifter	346,696	Aug. 3	309	85	36	522
Whitney, Ruel W., assignor to White Sewing Machine Company, Cleveland, Ohio. Trimmer for sewing-machines	350,514	Oct. 12	583	162	37	113
Whitney, Samuel C., Cleveland, assignor of one-third to J. H. Davidson, and A. N. McConnell, Poland, Ohio. Burglar-alarm for window-sashes	345,350	July 13	765	192	36	144
Whiton, Lucius E., West Stafford, Conn. Bicycle-tire	345,351	July 13	766	192	36	144
Whiton, Lucius E., West Stafford, Conn. Copying-book	354,959	Dec. 28	1903	502	37	1382
Whiton, Walter F., Bangor, Me. Spoke-socket	339,721	Apr. 13	924	226	35	169
Whitson, Edwin, Woodstock, Ill. Locking device for milk-cans	339,829	Apr. 13	1059	263	35	194
Whittaker, Henry B., Philadelphia, Pa. Piston water-meter	336,678	Feb. 23	2285	597	34	866
Whittaker, Henry B., Philadelphia, Pa. Grip for cable-motor cars	341,528	May 11	773	207 / 208	35	656
Whittaker, Lee, Allegheny City, Pa. Gas-furnace for melting glass, iron, &c	342,944	June 1	244	62	35	1050
Whittaker, Rolan W. (See Platt, John A., assignor.)						
Whittaker, William H., Seneca, Ill. Band-tightener	338,811	Mar. 30	2639	696	34	1428
Whittet, Charles D., *et al.* (See Zanger, Theodor, assignor.)						
Whittic, John W., Syracuse, N. Y. Overdraw-check for bridles	333,581	Jan. 5	115	31	34	24
Whittier, Charles R., Yonkers, N. Y. Hydraulic engine	341,198	May 4	314	89	35	563
Whittier, Charles R., Yonkers, N. Y. Safety attachment for elevator-cars	354,366	Dec. 14	1053	281	37	1206
Whittingham, Charles, Toledo, Ohio. Scaffold-clamp	351,143	Oct. 19	1194	391	37	286
Whittington, Rees L., Bedford, Iowa. Fence	353,903	Dec. 7	367	98	37	1074
Whittlesey, Charles E., New Haven, Conn. Fastening for knob-spindles	350,609	Oct. 12	719	195	37	138
Whittlesey, Elbert A. (See Tisdel, Abner G., assignor.)						
Whittelsey, Frank C., Providence, R. I. Surface-gage	348,442	Aug. 31	2798	751	36	1015
Whitty, Frank L., Allegheny, Pa. Rolls for forming table-knives	346,138	July 27	1913	494	36	367
Whitworth, Thomas S. (See Higgins and Whitworth.)						
Whitzel, Russel B., Columbus, Ohio. Roller for skates	338,576	Mar. 23	2291	600	34	1360
Whytal, Frank G., assignor to F. W. Devoe & Co., New York, N. Y. Tack-puller	347,019	Aug. 10	743	198	36	610
Whorf, Charles A., *et al.* (See Whorf, Charles F., assignor.)						
Whorf, Charles F., assignor of two-thirds to C. A. and F. E. Whorf, St. Louis, Mo. Stove	351,892	Nov. 2	230	65	37	500
Whorf, Fred E., *et al.* (See Whorf, Charles F., assignor.)						
Whyte, George, Northview, Elgin, Scotland. Candle attachment	350,710	Oct. 12	863	232	37	165
Whyte, George W., Ann Arbor, Mich., assignor, by mesne assignments, to said Whyte and J. Cahill, Joliet, Ill. Coating metal for wire-drawing	340,023	Apr. 13	1327	.....	35	243
Wiard, George, assignor to Wiard Plow Company, Batavia, N. Y. Plow	346,879	Aug. 3	542	147	36	566
Wiard Plow Company. (See Wiard, George, assignor.)						
Wiborg, Charles J., Osco, Ill. Automatic grain-weigher	342,411	May 25	2012	531	35	903
Wichard, Frank. (See Koch, Julius J., assignor.)						
Wick, Foster, Coultersville, Pa. Thill-coupling	346,420	July 27	2305	594	36	440
Wick, Ole E., Humboldt Park, Ill. Bread-cutter	344,298	June 22	2180	559	35	1424
Wicke, Wilhelm. (See Gobeillé and Wicke.)						
Wicke, William, New York, N. Y. Log-dressing machine	347,854	Aug. 24	1953	518	36	851
Wicker, Albert G., Cincinnati, Ohio. Rocking furniture	348,809	Sept. 7	363	98	36	1115
Wicker, John C., Danville, Ill. Corn-slicer	335,664	Feb. 9	806	215	34	592
Wickers, Barney C. (See Wickers, Lewis F. and B. C.)						
Wickers, Lewis F. and B. C., Lebanon, Ind. Tile-kiln	335,665	Feb. 9	807	215	34	592
Wickers, William H., Mount Comfort, Ind. Brick-kiln	347,907	Aug. 24	2032	537	36	864
Wickersham, Charles H., Pottstown, Pa. Electric water-level indicator	350,279	Oct. 5	244	71	37	51
Wickerson, William, Worcester, Mass. Machine for slitting and preparing soles for turned shoes	342,890	June 1	161	41, 42	35	1035
Wickes, James H., New York, N. Y. Stock-car	336,776	Feb. 23	2409	633	34	891
Wickizer, Samuel, assignor to W. C. Eickemeyer, F. Hassler, J. F. Hughes, and H. Ernest, Pierre, Dak. Ter. Ground-screw for boring wells	334,919	Jan. 26	1985	529	34	389
Wicks, Albert, Somerville, Mass. Jack for boots or shoes	342,155	May 18	1622	434 / 435	35	827
Wicks, Pierson J., Green Point, N. Y. Railway-signal	350,790	Oct. 12	971	260	37	184
Wicks, Thomas. (See Frank, William A., assignor.)						
Wicks, Thomas. (See Frank and Wicks.)						
Wicks, William A., *et al.* (See Pillings, George T., assignor.)						
Wicks, William A., Baltimore, Md. Apparatus for preserving fruits	342,412	May 25	2013	531	35	903
Wicks, William A., Baltimore, Md. Preserving fruits, vegetables, &c	342,413	May 25	2015	531	35	904
Wicksteed, Charles, Kettering, county of Northampton, England. Tube-expander	346,251	July 27	2071	532	36	397
Widdows, Frederick, Washington, D. C. Musical bell for church and other chimes	352,794	Nov. 16	1480	399	37	750
Widmer, Charles, New York, N. Y. Shuttle-motion for looms	345,011	July 6	311	78	36	57
Widney, Charles W. (See Gerbing, Lorenzo F., assignor.)						
Wiechmann, Ferdinand G., New York, N. Y. Sugar refining and filtering, clarifying, and purifying sugar-liquors, &c	343,287	June 8	749	.....	35	1151
Wieck, John A. (See La Banister, William, assignor.)						
Wiedemann, William, Lawrence, Kans. Curtain-fastener	347,543	Aug. 17	1496	396	36	757
Wiedhoft, Alfred H., Lake View, Ill. Seed-dropper	351,950	Nov. 2	321	89	37	517
Wiedling, Hermann, Baltimore, Md., assignor of twenty-four one-hundredths to Wiedling Motor Company, New York, N. Y. Railway system	338,681	Mar. 23	2440	643 / 644 / 645	34	1385
Wiedling, Hermann, assignor to Wiedling Motor Company, New York, N. Y. Valve-gear for engines	341,085	May 4	148	44, 45	35	532
Wiedling, Hermann, assignor to Wiedling Motor Company, New York, N. Y. Pipe-coupling	347,855	Aug. 24	1954	519	36	851

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Wiedling, Hermann, assignor to Wiedling Motor Company, New York, N. Y. Differential valve	347,856	Aug. 24	1955	519	36	851
Wiedling Motor Company. (See Wiedling, Hermann, assignor.)						
Wiegand, S. Lloyd, Philadelphia, Pa., assignor to Economy Kindling Wood Stove Company. Portable furnace	334,400	Jan. 12	1284	346	34	245
Wiegard, August, and G. Erhard, New York, N. Y. Coat-rack	345,012	July 6	312	78	36	57
Wienberg, Fred, assignor of one-half to E. M. Brannick, Chicago, Ill. Two-wheeled vehicle	342,156	May 18	1624	435	35	827
Wierman, Nicholas A., Aspers, Pa. Egg-preserving crate	343,784	June 15	1476	370	35	1288
Wiese, Peter. (See Hagge and Sankey, assignors.)						
Wiesebrock, Frederick W., New York, N. Y. Grain-drier	333,908	Jan. 5	562	152	34	105
Wiesebrock, Friederick W., New York, N. Y. Apparatus for packing dried brewers' grain, &c	346,003	July 20	1725	444 445	36	322
Wiesebrock, Robert, New York, N. Y. Grain-drier	348,650	Sept. 7	161	44	36	1076
Wiesendanger, Emil U., Comanche, Tex. Coffee-mill attachment	349,021	Sept. 14	666	171	36	1173
Wiesner, Eberhard, Baltimore, Md. Roller for forming tapered tubes	352,172	Nov. 9	674	180	37	589
Wiesner, Eberhard, Baltimore, Md. Flower-pot machine	352,173	Nov. 9	675	180	37	589
Wiester, William H. (See Howse, Henry L., assignor.)						
Wiestner, John H., Philadelphia, Pa. Spring-clip for vehicles	343,879	June 15	1593	405	35	1310
Wiggers, Albert, West Hoboken, N. J. Sash-lifter	337,038	Mar. 2	211	56	34	964
Wiggin, E. R., *et al.* (See Beale, Alfred, assignor.)						
Wiggin, Edwin R., *et al.* (See Beale, Alfred M. A., assignor.)						
Wiggins, Frank, Richmond, Ind. Sweat-pad attachment	343,880	June 15	1594	405	35	1310
Wiggins, William B., Robbinsville, N. C. Animal-trap	340,269	Apr. 20	1685	430	35	313
Wight, George R., New York, N. Y. Mucilage-bottle	335,329	Feb. 2	341	89	34	502
Wightman, Andrew, Peekskill, N. Y. Metallic roofing	349,966	Sept. 28	1962	507	36	1437
Wightman, Merle J. (See Lemp and Wightman.)						
Wightman, Merle J., Hartford, Conn., assignor to Schuyler Electric Light Company of New York. Switch and holder for incandescent lamps	336,191	Feb. 16	1585	416	34	736
Wightman, Merle J., Hartford, Conn., assignor to Schuyler Electric Light Company. Regulator for electric circuits	345,561	July 13	1091	279	36	202
Wightman, Merle J., Hartford, Conn., assignor to Schuyler Electric Light Company. Electric-current regulator	348,876	Sept. 7	452	120	36	1131
Wightman, Merle J., and H. Lemp, Hartford, Conn., assignors to Schuyler Electric Light Company. Switch-socket for incandescent lamps	348,875	Sept. 7	451	120	36	1131
Wightman, Olin C., assignor of one-half to A. Dennison, Mohawk, N. Y. Check-hook for harness	345,013	July 6	313	79	36	57
Wiglesworth, William. (See Manring and Gibbons, assignors.)						
Wigmore, William H., Philadelphia, Pa. Surgical instrument	344,150	June 22	1974	504	35	1387
Wilber, James G., Starke, Fla. Clamp	353,726	Dec. 7	108	29	37	1036
Wilber, John D., Chicago, Ill. Mower	346,007	July 20	1731	446	36	323
Wilbraham, Charles A., Poquonock, Conn. Former for sheet-metal vessels	352,019	Nov. 2	420	114	37	536
Wilbur, Alfred, Allegheny City, Pa. Pipe-coupling	339,036	Mar. 30	2969	786	34	1486
Wilbur, Alfred, Allegheny City, Pa. Pipe-coupling	344,760	June 29	2801	725	35	1545
Wilbur, George E. (See Walker, Wilbur, and Felton.)						
Wilbur, George H., trustee. (See Bailey, William H., assignor.)						
Wilbur, James F., Richford, N. Y. Water-tank	340,532	Apr. 20	2051	527	35	381
Wilbur, Miles, Palmyra, Wis. Churn	346,697	Aug. 3	310	86	36	522
Wilcke, Heinrich, Berlin, Germany. Furnace	345,014	July 6	314	79	36	57
Wilcomb, Charles A. (See Newcomb, Wyman J., assignor.)						
Wilcomb, Frank, San Francisco, Cal. Operating the needles and transfer-points in latch-needle knitting-machines for shaping fabrics	350,791	Oct. 12	973	260	37	184
Wilcomb, Frank, San Francisco, Cal. Needle-operating cam for knitting-machines	350,792	Oct. 12	974	261	37	185
Wilcomb, Frank, San Francisco, Cal. Knitting-machine	350,793	Oct. 12	975	261	37	185
Wilcomb, Frank, San Francisco, Cal. Movable cam for straight-knitting machines	350,794	Oct. 12	976	261	37	185
Wilcomb, Frank, San Francisco, Cal. Straight-knitting machine	350,795	Oct. 12	977	262 263 264 265	37	185
Wilcomb, Frank, assignor to San Francisco Pioneer Woolen Factory, San Francisco, Cal. Knitted stocking	344,466	June 29	2405	620	35	1472
Wilcox, Albert J. and E. B., Maple Rapids, Mich. Combined pitchfork and rake	339,630	Apr. 13	1060	263	35	194
Wilcox, Charles B., administrator. (See Burk, Leander.)						
Wilcox, Charles D. (See Faries and Wilcox.)						
Wilcox, Charles M. (See Middaugh and Wilcox.)						
Wilcox, Clark, Apponaug, R. I. Railway-rail joint	348,484	Aug. 31	2856	768	36	1026
Wilcox, Daniel L., Pawtucket, R. I., assignor to D. L. Wilcox Manufacturing Company. Desk	346,795	Aug. 3	422	116	36	542
Wilcox, Eliza B. (See Wilcox, Albert J. and E. B.)						
Wilcox, Harvey, Los Gatos, Cal. Fruit-jar	335,330	Feb. 2	342	89	34	502
Wilcox, Harvey, Elizabeth, N. J. Tool for expanding horseshoes	337,221	Mar. 2	450	117	34	1009
Wilcox, Harlow M., assignor to M. J. Wilcox, Wausau, Wis., and C. S. Martin, Osage City, Kans. Set-works for saw-mills	347,908	Aug. 24	2033	538	36	864
Wilcox, Hiram L., Lincoln, Nebr. Compound for tanning	353,341	Nov. 30	2253	.....	37	911
Wilcox, Jacob, Plain City, Ohio. Wrench	339,607	Apr. 6	745	183	35	131
Wilcox, Jacob, Plain City, Ohio. Tension device for wire fences	352,845	Nov. 16	1544	417	37	762
Wilcox, Jasper A. (See Watson and Wilcox.)						
Wilcox, Joseph R., San Francisco, Cal. Water-level indicator	337,910	Mar. 16	1377	358	34	1187
Wilcox, Lewis T., *et al.* (See Richter, Peter J., assignor.)						
Wilcox Manufacturing Company. (See Doan, Israel, assignor.)						
Wilcox Manufacturing Company. (See Richards, Marcius C., assignor.)						
Wilcox Manufacturing Company, D. L. (See Wilcox, Daniel L., assignor.)						
Wilcox, Marilla J., *et al.* (See Wilcox, Harlow M., assignor.)						
Wilcox, Ralph. (See Gilbert and Wilcox.)						
Wilcox, Reuben G., assignor of one-half to J. W. Davis, Rapids, Ohio. Toe-weight	342,665	May 25	2364	625	35	968
Wilcox, S. Rollin, Bennington, Vt. Digital forceps	338,324	Mar. 23	1951	513	34	1301
Wilcox, Samuel S., and G. W. Bunnell, Birmingham, Conn. Oil-burner	340,179	Apr. 20	1551	392	35	289
Wilcox, Stephen, Brooklyn, N. Y. Gas-engine	343,744	June 15	1433	357	35	1279
Wilcox, Stephen, Brooklyn, N. Y. Gas-engine	343,745	June 15	1433	358	35	1280
Wilcox, Stephen, Brooklyn, N. Y. Air and gas engine. (Reissue)	10,750	July 27	2365	606 607	36	450
Wilcox, Stephen C., assignor of one-third to Walker & Rhemberg, Dubuque, Iowa. Lamp-wick	346,569	Aug. 3	149	41	36	489
Wilcox, Stephen C., assignor of one-third to Walker & Rhemberg, Dubuque, Iowa. Lamp-wick tube	346,570	Aug. 3	150	41	36	489

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgn.	Official Gazette. Vol.	Official Gazette. Page.
Wilcox, Theodore B., Newark, N. J., assignor to F. E. Gilbert, New York, N. Y. Inhaler	351,677	Oct. 26	2287	592	37	438
Wilcox, William B., assignor of one-half to W. H. Cosper, Chicago, Ill. Hose-reel carriage	353,340	Nov. 30	2252	602	37	911
Wilcox, William R., Nashua, N. H. Eaves-trough support	334,831	Jan. 26	1874	499	34	369
Wild, Hermann, Brooklyn, N. Y. Baker's oven	345,095	July 6	413	105, 106	36	75
Wild, William H., Valatie, N. Y. Pitman-head	353,240	Nov. 23	2109	565	37	879
Wilde, Thomas B., Philadelphia, Pa. Lap-feeding device for carding-machines	345,940	July 20	1635	420, 421	36	306
Wilder, Charles W., Fitchburg, Mass. Wood-turning lathe	345,466	July 13	930	234, 235	36	173
Wilder, Chauncy G. (See Pollard, Isaac G., assignor.)						
Wilder, Jones W., Parkville, N. Y. Sealing jars, &c	351,823	Nov. 2	130	36	37	483
Wilder, Julius P., and A. D. Arkland, Willis, Kans. Stock-feeder	348,305	Aug. 31	2610	702, 703	36	979
Wilder, Monroe, Buffalo, N. Y. Gate for railway-crossings	351,552	Oct. 26	2097	544	37	403
Wilder, Moses G., Philadelphia, Pa. Yoke for supporting gas or fluid regulators	351,822	Nov. 2	129	36	37	482
Wilder, Moses G., Philadelphia, Pa. Volumetric gas-regulator	352,174	Nov. 9	677	180	37	589
Wilder, Moses G., Philadelphia, Pa. Volumetric regulator	352,594	Nov. 16	1207	327	37	699
Wilder, Moses G., Philadelphia, Pa. Gas-regulator	352,940	Nov. 23	1678	450	37	796
Wilder, Moses G., Philadelphia, Pa. Gas-regulator	353,342	Nov. 30	2253	602	37	911
Wilder, William H., assignor to American Oil Stove Company, Gardner, Mass. Wick-tube for oil-burners	354,367	Dec. 14	1054	282	37	1206
Wildermuth, La Fayette, Lancaster, Ohio. Punching-machine	340,072	Sept. 14	736	188	36	1185
Wiles, Thomas S., Albany, N. Y. Seamless felted fabric for filters	339,732	Apr. 13	926	226	35	169
Wiley, Jesse G., Lockhart, Tex. Cotton-gin feeder	344,299	June 22	2181	560	35	1425
Wiley, Philip W., Raleigh, N. C. Machine for attaching labels to packages	335,166	Feb. 2	94	25, 26	34	457
Wiley, Thomas. (See Keller and Wiley.)						
Wilhelm, Albert, Pleasant Hill, Tex. Plow	338,325	Mar. 23	1952	513	34	1301
Wilhelm, John, Wooster, Ohio. Cream-tempering vat	351,012	Oct. 19	1317	346	37	254
Wilhelm, John J., Cedar Grove, Ind. Calk-plate for horseshoes	351,013	Oct. 19	1318	346	37	254
Wilhelm, Peter, and M. N. Demmer, Portland, Oreg. Car-axle	335,003	Jan. 26	2093	558	34	408
Wilhite, Edmond S., *et al.* (See Stone, James R., assignor.)						
Wilhite, Thomas J., *et al.* (See Stone, James R., assignor.)						
Wilkes, Samuel W. (See Powers and Wilkes.)						
Wilkeson, William. (See Howell, William H., assignor.) (Reissue.)						
Wilkin, Alfred, Toledo, Ohio. Self-acting water-elevator	341,617	May 11	902	240	35	681
Wilkin, George. (See Horton, Emmet, assignor.)						
Wilkin, Theodore S., Milwaukee, Wis. Smoke-consuming furnace	334,066	Jan. 12	792	218	34	155
Wilkin, Theodore S., Milwaukee, Wis. Gang-saw mill	335,167	Feb. 2	99	26	34	458
Wilkin, Theodore S., Milwaukee, Wis. Saw-mill set-works	335,168	Feb. 2	102	27	34	459
Wilkin, William M., Erie, Pa. Gang-saw mill	336,192	Feb. 16	1586	416	34	736
Wilkin, William M., Erie, Pa. Combined edger and cant sawing machine	336,193	Feb. 16	1588	416, 417	34	736
Wilkin, William M., Erie, Pa. Saw-mill dog	336,194	Feb. 16	1589	417	34	737
Wilkin, William M., Erie, Pa. Reciprocating-saw mill	338,124	Mar. 16	1682	437	34	1242
Wilkin, William M., Erie, Pa. Saw-sash for reciprocating-saw mills	338,125	Mar. 16	1683	437	34	1243
Wilkins, Alexander G., Meadville, Pa. Button-fastener	345,562	July 13	1094	279	36	202
Wilkins, Alexander G., Meadville, Pa., and M. J. Bartlett, Chardon, assignors to Railway Speed Recorder Company, Kent, Ohio. Button-setting machine	334,321	Jan. 12	1179	315, 316, 317	34	227
Wilkins, James S., Jr., Keene, N. H. Joint for vehicle-tops	352,637	Nov. 16	1269	342	37	709
Wilkins, Joseph, Baltimore, Md. Amalgamator	336,970	Mar. 2	115	32	34	946
Wilkins, Joseph, Baltimore, Md. Amalgamator	345,096	July 6	414	106	36	75
Wilkinson, Asa W., assignor of one-half to E. S. T. Kennedy, New York, N. Y. Process of and apparatus for manufacturing heating-gas	348,178	Aug. 24	2425	649, 650	36	937
Wilkinson, Charles B. (See Segal, Adolph, assignor.)						
Wilkinson, Henry F. (See Halley, William, and Bissett.)						
Wilkinson, Horatio S., Jefferson Parish, assignor of one-half to P. K. Thompson, New Orleans, La. Harvester	337,542	Mar. 9	912	233, 234	34	1096
Wilkinson, Jasper, and F. Curtin, Kentuck, Ala. Cotton-cultivator	337,222	Mar. 2	452	118	34	1010
Wilkinson, John W., *et al.* (See Spilman, Baldwin D., assignor.)						
Wilkinson, Richard B., Tonganoxie, Kans. Washing-machine	351,237	Oct. 19	1615	423, 424	37	309
Wilkinson, William H. (See Washburn, Albert L., assignor.)						
Wilkinson, William H., Boston, Mass. Micrometer-calipers	350,516	Oct. 12	585	162	37	114
Will, F. J., *et al.* (See Carey, John E., assignor.)						
Will & Finck. (See Finck, Julius, assignor.)						
Will, Frederick, Rochester, N. Y. Stove	341,363	May 4	550	152	35	604
Will, Herman, *et al.* (See Palm, Peter, assignor.)						
Willans, Peter W., Thames Ditton, county of Surrey, England. Motive-power engine	338,378	Mar. 23	2031	533	34	1314
Willans, Peter W., Thames Ditton, county of Surrey, England. Fluid-pressure engine and pump	339,249	Apr. 6	182	47, 48	35	35
Willard, Charles P. (See Hoskins, Edwin J., assignor.)						
Willard, George, Chicago, Ill. Steam-plow	336,969	Mar. 2	113	31	34	946
Willard, Rodney S., St. Albans, Vt. Stocking-supporter	344,889	July 6	136	34	36	24
Willcox, Charles H. (See Borton and Willcox.) (Reissue.)						
Willcox, Charles H., New York, N. Y. Trimming attachment for sewing-machines	348,485	Aug. 31	2857	769	36	1026
Willcox, Charles H., New York, N. Y. Machine for clipping lace, &c	353,615	Nov. 30	2658	711, 712, 713, 714, 715	37	988
Willcox, Charles H., New York, N. Y., and J. E. A. Gibbs, Raphine, Va., assignors to Willcox & Gibbs Sewing Machine Company, of New York. Sewing-machine	354,589	Dec. 21	1367	362, 363, 364	37	1269
Willcox, Charles H., New York, N. Y., and J. E. A. Gibbs, Raphine, Va., assignors to Willcox & Gibbs Sewing Machine Company, of New York. Feed mechanism for sewing-machines	354,590	Dec. 21	1377	365	37	1270
Willcox, E. S., *et al.* (See Virgil, Almon K., assignor.)						
Willcox, George M., *et al.* (See Virgil, Almon K., assignor.)						
Willcox & Gibbs Sewing Machine Company. (See Borton and Willcox, assignors.) (Reissue.)						
Willcox & Gibbs Sewing Machine Company. (See Noble, George H., assignor.)						
Willcox & Gibbs Sewing Machine Company. (See Range, James, assignor.)						
Willcox & Gibbs Sewing Machine Company. (See Weiss, Rudolph, assignor.)						
Willcox & Gibbs Sewing Machine Company. (See Willcox and Gibbs, assignors.)						
Willcox, Susan P., Fairhaven, Mass. Cuff-fastener	354,288	Dec. 14	951	251	37	1185

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Willcoxson, Coulmon W., assignor of one-half to S. R. Hamilton, Farmersville, Tex. Harvester-truck	333,909	Jan. 5	563	152, 153	34	105
Willer, Henry E., Milwaukee, Wis. Holding-spring for sashes and screens	346,524	Aug. 3	97	26	36	478
Willet, Richard H., Washington, D. C. Stair-carpet fastener	349,329	Sept. 21	1066	273, 274	36	1258
Willets, John P., Jersey City, N. J., and E. R. Crolius, New York, N. Y. Electric connection for chandeliers	348,708	Sept. 7	242	64	36	1092
Willett, George E., Englewood, Ill. Machine for combing and mixing bristles, &c	350,649	Oct. 12	783	213, 214	37	149
Willey, Edward S. (See Cox and Willey.)						
Willey, George W., Athol, Mass. Making sewed boots or shoes	354,289	Dec. 14	952	251	37	1186
Willgansz, Christian, Little Stony, Cal. Grading-level	334,149	Jan. 12	910	249	34	177
Williams, Aaron. (See Williams, George W., assignor.)						
Williams, Abell P., Statesville, Tenn. Foot-rasp for horses	353,999	Dec. 7	507	137	37	1099
Williams, Alfred R. (See House, Isaac M., assignor.)						
Williams, Benezette, Chicago, Ill. Underground electric cable	350,515	Oct. 12	584	162	37	114
Williams, Benezette, Chicago, Ill. Underground electrical conduit	354,290	Dec. 14	953	251, 252	37	1186
Williams, Benjamin F., Springville, N. Y. Stock-car	352,020	Nov. 2	421	114	37	536
Williams, Benjamin I., Lansing, Mich. Clothes-tongs	342,414	May 25	2016	532	35	904
Williams Car Coupler Company. (See Williams, John H., assignor.)						
Williams, Cassius M. C. (See Williams, Oliver P. and C. M. C.)						
Williams, Charles A., Warren, Ind. Corn-sheller	349,553	Sept. 21	1393	361	36	1321
Williams, Charles D., Philadelphia, Pa. Show-window	349,290	Sept. 14	1021	261	36	1241
Williams, Charles E., *et al.* (See Castle, Samuel D., assignor.)						
Williams, Charles H., Cleveland, Ohio. Blank for turn-buckles	338,813	Mar. 30	2642	696	34	1428
Williams, Charles L. (See Williams, Irvin A. and C. L.) (Reissue.)						
Williams, Charles W., Cave City, Ky. Railway-telegraph	343,095	June 1	457	117	35	1089
Williams, Chester L., New York, N. Y. Clothes-line frame	352,021	Nov. 2	423	114	37	537
Williams, Clarence A., Webster City, Iowa. Miter-box	352,846	Nov. 16	1545	417	37	762
Williams, David F., Plattsburg, N. Y. Machine for forging horseshoe-nails	333,984	Jan. 5	666	182, 183	34	125
Williams, Ebenezer, assignor of one-half to J. E. Williams, Minersville, Ohio. Axle-coupling	354,820	Dec. 21	1706	451	37	1332
Williams, Edward, Dubuque, Iowa. Windmill	348,256	Aug. 31	2542	682	36	964
Williams, Edward, Jr., and R. M. Lashell, Centralia, Pa. Truss	340,750	Apr. 27	2363	623	35	442
Williams, Edward W., San Francisco, Cal. Mantel-grate	353,043	Nov. 23	1835	493	37	824
Williams, Edwin F., Chicago, Ill. Cut-off regulator	347,979	Aug. 24	2141	570	36	883
Williams, Edwin F., Chicago, Ill. Valve	350,650	Oct. 12	786	214	37	150
Williams, Elkanah G., Pitt, Ohio. Railway-gate	348,810	Sept. 7	364	98	36	1115
Williams, Fitzallan B., Chicago, Ill. Attachment for wardrobe-bedsteads	347,079	Aug. 10	840	223	36	627
Williams, Fitzallan B., assignor of one-fourth to W. A. Williams, Chicago, Ill. Wardrobe-bedstead	347,217	Aug. 10	1026	273, 274	36	662
Williams, Francis O., Cohocton, N. Y. Potato-digger	352,966	Nov. 23	1714	460	37	802
Williams, Francis O., and J. C. Mattice, Cohocton, N. Y. Potato-digger	338,812	Mar. 30	2640	696	34	1428
Williams, Frank J., Macy, Ind. Animal-trap	351,678	Oct. 26	2289	593	37	438
Williams, Frank M. (See Gable and Williams.)						
Williams, George B., Las Vegas, N. Mex. Ter. Seal-lock	335,867	Feb. 9	1098	290	34	646
Williams, George J., Birmingham, and F. R. Silk, Sparkbrook, county of Warwick, England. Manufacture of screw-hooks	337,722	Mar. 9	1130	291	34	1135
Williams, George L., Edwardsville, Ill. Blind-slat adjuster	343,881	June 15	1594	406	35	1311
Williams, George M., Newark, Del. Drill-tube for seeding-machines	334,683	Jan. 19	1684	449	34	325
Williams, George M., assignor of one-half to E. R. Wilson, Newark, Del. Lawn-mower	346,004	July 20	1727	445	36	323
Williams, George M., assignor to W. L. Nassau Manufacturing Company, Newark, Del. Device for forming mower-knives	340,024	Apr. 13	1328	332	35	243
Williams, George M., assignor to W. L. Nassau Manufacturing Company, Newark, Del. Pawl-and-ratchet mechanism	348,083	Aug. 24	2288	613	36	911
Williams, George M., assignor to W. L. Nassau Manufacturing Company, Newark, Del. Pawl-and-ratchet mechanism	351,238	Oct. 19	1616	424	37	309
Williams, George W. (See Long, George S., assignor.)						
Williams, George W., Topsham, Me. Oil-cloth-printing machine	349,417	Sept. 21	1205	312, 313	36	1284
Williams, George W., assignor to A. Williams, Chicago, Ill. Copying-press	338,625	Mar. 23	2362	622	34	1372
Williams, Glennie A., Kansas City, Mo. Dough-raiser	354,960	Dec. 28	1904	502	37	1382
Williams, Henry, 2 Duke Street, London Bridge, county of Surrey, England. Bedstead or cot	336,679	Feb. 23	2288	597, 598	34	867
Williams, Herbert C., *et al.* (See Court, Charles, assignor.)						
Williams, Horace, J. L. and L. R. Alberger, Buffalo, N. Y. Manufacture of salt	351,082	Oct. 19	1408	369, 370	37	269
Williams, Hugh. (See Andrew and Williams.)						
Williams, Irvin A. and C. L., Utica, N. Y. Locomotive head-light with signal attachment (Reissue)	10,751	July 27	2370	607, 608	36	451
Williams, J. Newton, New York, N. Y. Combined pocket match-safe and cigar-cutter	346,005	July 20	1728	445	36	323
Williams, Jacob, J. Reynolds, and J. Bell, Dublin, Ind.; said Bell assignor to said Williams and Reynolds. Fence-machine	342,240	May 18	1730	459	35	846
Williams, James A., Boston, Mass. Brush	345,941	July 20	1637	421	36	306
Williams, James B., San Francisco, Cal. Composition of matter for insulating material	335,495	Feb. 2	564	.....	34	542
Williams, James B., and J. P. Smith, Glastonbury, Conn. Thill-coupling	351,083	Oct. 19	1412	371	37	270
Williams, James C., Erie, Pa. Lathe-chuck	355,237	Dec. 28	2306	607	37	1459
Williams, James H. (See Bergan, John A., assignor.)						
Williams, James L., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Artificial denture	347,544	Aug. 17	1497	397	36	757
Williams, James W., Louisville, Ky. Hand-rubber	349,554	Sept. 21	1394	361	36	1321
Williams, James W., and I. H. Eddy, Louisville, Ky. Wash-board	335,868	Feb. 9	1100	291	34	646
Williams, James W., and I. H. Eddy, Louisville, Ky. Wash-board	335,869	Feb. 9	1101	291	34	646
Williams, John D., Denton, Ky. Miner's squib-box, &c	346,834	Aug. 3	474	131	36	553
Williams, John. (See Beaudin, Elia, assignor.)						
Williams, John D., and G. P. Raidabaugh, assignors of one-half to Grove, Grier & Co., (limited,) Danville, Pa. Rolls for reworking old rails	341,529	May 11	774	208	35	657
Williams, John D., and G. P. Raidabaugh, assignors of one-half to Grove, Grier & Co., (limited,) Danville, Pa. Rolls for reworking old rails	341,530	May 11	775	208	35	657
Williams, John E. (See Williams, Ebenezer, assignor.)						
Williams, John F., and B. F. Dewert, assignors of one-third to A. Van Hall, Montrose, Mo. Car-coupling	342,276	May 18	1788	473	35	856

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Williams, John H. (See Warren, John R., assignor.)						
Williams, John H., Rockville, Mo. Ironing-board	338,126	Mar. 16	1684	438	34	1243
Williams, John H., Brattleborough, Vt., assignor to Williams Car Coupler Company, Concord, N. H. Car coupling	334,501	Jan. 19	1431	385	34	279
Williams, John J., Vernon, Mich. Wagon-jack	338,626	Mar. 23	2363	622	34	1372
Williams, John R. (See Rowden, George, assignor.)						
Williams, John R., Newark, N. J. Combined cigar-rolling table and wrapper-cutter	335,263	Feb. 2	251	66	34	485
Williams, John R., Newark, N. J. Machine for cutting cigar-wrappers	340,180	Apr. 20	1552	392	35	289
Williams, John R., Newark, N. J. Cigar-machine	346,627	Aug. 3	226	62, 63	36	504
Williams, John R., Newark, N. J. Cigar-bunching machine	346,628	Aug. 3	230	63	36	505
Williams, John R., Newark, N. J. Cigar-machine	353,907	Dec. 7	371	99	37	1074
Williams, John R., Kansas City, Mo. Wheeled dirt-scraper	336,195	Feb. 16	1591	418	34	737
Williams, John R., St. Louis, Mo. Adjustable shovel-block for plows	342,058	May 18	1490	398	35	800
Williams, John R., Chicago, Ill., assignor to Niles Tool Works, Hamilton, Ohio. Car-wheel lathe	334,832	Jan. 26	1875	499	34	369
Williams, John T., Mount Vernon, N. Y. Electro-magnetic transmitter	342,666	May 25	2465	625	35	968
Williams, John W., Hubbard, Tex. Corn and cotton planter	352,595	Nov. 16	1209	328	37	699
Williams, Katie A., Providence, R. I. Hair-curling device	352,022	Nov. 2	424	115	37	537
Williams, L. Chester, and J. A. Wiselogel, Albion, Mich. Harvester-platform	353,106	Nov. 23	1924	516	37	843
Williams, Malcolm B., Kalamazoo, Mich. Windmill	344,761	June 29	2801	736	35	1545
Williams, Matthew C., Adams, Mass. Take-up and let-off mechanism for looms	351,726	Oct. 26	2348	611	37	449
Williams, Morgan, and S. W. Vaughen, Johnstown, Pa. Joint for the bricks of ladle-rods	349,265	Sept. 14	997	254	36	1236
Williams, Oliver P. and C. M. C., Connor's Station, Kans. Mail-crane attachment	341,618	May 11	903	240	35	682
Williams, Orlando E., and J. R. Brewster, Windsor, assignors of one-third to D. L. Spaulding, Windsor County, Vt. Gage for saws	353,242	Nov. 23	2111	565	37	879
Williams, Owen, Woonsocket, R. I. Lubricator	334,323	Jan. 12	1184	318	34	228
Williams, Owen L. (See Baruch and Williams.)						
Williams, Percy G. (See Roovers and Williams.)						
Williams, Philo B., Butler, Ind. Log-bunk for saw-mills	351,144	Oct. 19	1495	391	37	286
Williams, Richard S., New York, N. Y. Dental plugger	336,777	Feb. 23	2411	634	34	891
Williams, Robert B., Janesville, Wis. Carriage-spring	336,971	Mar. 2	116	32	34	947
Williams, Robert E., and W. A. Trammell, Dallas, Tex.; said Trammell assignor to said Williams. Lamp	340,965	Apr. 27	2649	698	35	494
Williams, Robert F. H., Camden, N. J. Combined ruler and book-holder	339,248	Apr. 6	197	50	35	37
Williams, Robert N., assignor of one-half to F. T. Hathaway, West Troy, N. Y. Bell	347,452	Aug. 17	1370	364	36	732
Williams, Samuel B., Sailor's Rest, Tenn. Plow attachment. (Reissue)	10,719	May 4	650	176	35	624
Williams, Samuel T., Red Bank, N. J. Wheel	337,223	Mar. 2	453	118	34	1010
Williams, Samuel T., Red Bank, N. J. Tension-wheel	339,082	Mar. 30	3031	800	34	1495
Williams, Samuel T., Red Bank, assignor to Williams Tension Wheel Company, Newark, N. J. Flanging-machine	338,901	Mar. 30	2774	730, 731	34	1451
Williams, Stephen. (See St. John, John C., assignor.)						
Williams, Tallie G., Cedar Plains, Ala. Sash-balance	353,241	Nov. 23	2110	565	37	879
Williams Tension Wheel Company. (See Williams, Samuel T., assignor.)						
Williams Tension Wheel Company. (See Zieger, William, assignor.)						
Williams, Thomas, Toronto, Ontario, Canada. Mopping and scrubbing device	343,938	June 15	1665	427	35	1326
Williams, Thomas, Jr., 45 Myddelton Square, county of Middlesex, England. Combined meat-mincing and sausage-stuffing machine	345,408	Aug. 17	1301	347	36	721
Williams, Thomas B., Orange, Mass. Ice-tire for vehicle-wheels	334,322	Jan. 12	1183	318	34	227
Williams, Thomas B., Orange, Mass. Ice-tire for vehicle-wheels	349,773	Sept. 28	1709	440	36	1387
Williams, Thomas D., Bellevue Borough, G. M. Eitemiller and J. S. Lucock, Allegheny City, Pa. Railway-signal	353,393	Nov. 30	2328	622, 623	37	926
Williams, Thomas H., S. D. Tompkins, Jersey City, N. J., and J. N. Matlock, Brooklyn, N. Y. Radiator	343,512	June 8	1088	273	35	1211
Williams, Thomas J., Ozark, Mo. Car-coupling	350,178	Oct. 5	116	33	37	24
Williams, Virgil L., Cartersville, Ga. Washing-machine	346,629	Aug. 3	231	63	36	505
Williams, W. P., *et al.* (See Pfingst, Louis, assignor.)						
Williams, Waldo A. (See Williams, Fitzallan B., assignor.)						
Williams, Wilbur F. (See Lussier, Joseph, assignor.)						
Williams, William. (See Lauffer, Bilhimer, and Williams.)						
Williams, William E., Boonville, Mo. Car-coupling	347,409	Aug. 17	1303	347, 348	36	722
Williams, William F., and V. H. Klinefelter, assignors to Klinefelter Brothers, Baltimore, Md. Reverse-seamer for sewing-machines	341,364	May 4	551	152	35	604
Williams, William H., *et al.* (See Gates, Waldo L., assignor.)						
Williams, William P., Cleveland, Ohio. Lifting-jack	341,086	May 4	151	45	35	533
Williams, William P., Bartlett, Tex. Barrel-truck	345,467	July 13	934	235	36	173
Williams, William S., East Hartford, assignor to S. E. Elmore, Hartford, and E Brewer, East Hartford, Conn. Machine for grinding mowing-machine knives	353,908	Dec. 7	374	99, 100	37	1075
Williamson, Catharine A. (See Rawlings and Williamson.)						
Williamson, Catherine A., St. Louis, Mo., Gasoline-stove	348,082	Aug. 24	2287	613	36	911
Williamson, David, Hartford, Conn. Carbon-holder for arc lamps	347,218	Aug. 10	1027	274	36	662
Williamson, David, Hartford, Conn. Insulating-joint	354,291	Dec. 14	954	252	37	1186
Williamson, David, New York, N. Y. Armature for dynamo-electric machines	354,292	Dec. 14	956	252, 253	37	1186
Williamson, Elwood N., Lodge, Ill. Automatic grain-meter	342,854	June 1	106	27	35	1025
Williamson, Henry C., and F. Pries, Michigan City, Ind. Car-door	335,169	Feb. 2	101	27, 28	34	460
Williamson, John. (See Remmers and Williamson.)						
Williamson, John J., Boston, Mass. Lap-robe and splatter-dasher	346,006	July 20	1729	445, 446	36	323
Williamson, Marshall D., *et al.* (See Allgire, James R., assignor.)						
Williamson, S. Stuart. (See Smith and Williamson.)						
Williamson, William C., Blackville, S. C. Spoke-socket	345,015	July 6	314	79	36	58
Williamsport Kindling Wood Company. (See Shaw and Ellinger, assignors.)						
Willing, Rudolph, Baltimore, assignor one-half to M. Adams, Highlandtown, Md. Clay-tempering mill	342,277	May 18	1789	474	35	857
Willis, Ambrose, Troy, N. Y. Fly-escape for window and door screens	341,087	May 4	153	46	35	533
Willis, Charles F., assignor of one-half to A. H. Kirk, Fergus Falls, Minn. Automatic telephone-call	350,610	Oct. 12	719	195, 196	37	138
Willis, Eben, Colton, N. Y. Arch for boiling sap-sugar, &c	348,938	Sept. 7	544	143, 144	36	1147
Willis, Vincent, Camden-Town, county of Middlesex, England. Pneumatic action for organs	339,608	Apr. 6	746	184, 185	35	131
Willis, Vincent, 9 Rochester Terrace, Camden-Town, county of Middlesex, England. Device or means for making and breaking electric circuits	342,157	May 18	1625	435	35	827

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Williston, Benjamin F., assignor of one-half to S. A. Plummer, West Bay City, Mich. Piston-rod packing	333,582	Jan. 5	116	32	34	24
Willits, Warren J., and E. B. Linsley, assignors to Sheffield Velocipede Car Company, Three Rivers, Mich. Car-wheel	340,845	Apr. 27	2487	655	35	464
Wilkx, Enos B., Dows, Iowa. Carpet-stretcher	343,412	June 8	954	238	35	1188
Willman, Reinhold, *et al.* (See Shellabeyger, George H., assignor.)						
Willmarth, John T. (See Foster, John W., assignor.)						
Willoughby, John, Decatur, Ill., assignor to Monitor Works, Beloit, Wis. Machine for making spur-wheel fencing	343,288	June 8	750	186 / 187	35	1151
Willox, Peter. (See Simpson and Willox.)						
Willshaw, Alexander. (See Willshaw, Clement P. and A.)						
Willshaw, Clement P., Brooklyn, and A. Willshaw, New York, N. Y. Railway-signal	340,846	Apr. 27	2488	655	35	465
Wilson, Charles C. T., assignor o two-thirds to W. K. Carr, Altoona, Pa. Draw-bar pin and fastener	343,653	June 15	1286	323	35	1254
Wilson, Henry, Chicago, Ill. Chain for portable signs	354,293	Dec. 14	957	253	37	1186
Wilson, John S., and W. H. Mack, Milwaukee, Wis. Bob-sled	349,378	Sept. 21	1154	299	36	1275
Wilson, Theodore B., Chicago, Ill. Letter-scale	336,275	Feb. 16	1716	448	34	757
Wilson, Theodore B., Chicago, Ill. Lamp-burner	337,102	Mar. 2	291	77	34	980
Wilson, Walter V., Brunswick, N. Y. Clutch for street-car brakes	348,306	Aug. 31	2612	703	36	979
Wilmarth, Charles H., Providence, R. I. Necktie fastener	341,531	May 11	776	208	35	657
Wilmington, William, Toledo, Ohio. Casting car-wheels	344,300	June 22	2182	560	35	1425
Wilmington, William, Tol do, Ohio. Casting car-wheels. (Reissue)	10,742	June 29	2269	741	35	1560
Wilmont, Edwin, assignor of one-half to C. J. and W. S. Allexander, Laona, N. Y. Paper-making machine	346,079	July 20	1824	471	36	341
Wilmott, Louis, New Bedford, assignor of one-half to G. Draper & Sons, Hopedale, Mass. Let-off mechanism for looms	345,468	July 13	935	235	36	173
Wilsey, Jay F., Jerry City, Ohio. Metallic car-tip	343,513	June 8	1089	273	35	1211
Wilson, Alexander. (See Hicks and Wilson.)						
Wilson, Augustine J., New York, N. Y. Button	337,723	Mar. 9	1131	292	34	1135
Wilson, Bennet C., Philadelphia, Pa. Ink-bottle	351,553	Oct. 26	2098	545	37	403
Wilson, Bennet C., Philadelphia, Pa. Ink-bottle	351,679	Oct. 26	2290	593	37	438
Wilson, Bennet C., Philadelphia, Pa. Cork-holder	351,680	Oct. 26	2291	593	37	438
Wilson, Carlos G., Milledgeville, Ga. Spark-arrester	336,504	Feb. 16	2025	531	34	814
Wilson, Charles R., *et al.* (See Askin, George P., assignor.)						
Wilson, Christopher J., Knoxville, Tenn. Saw-to th	337,103	Mar. 2	293	77	34	980
Wilson, David, assignor of one-third to J. T. Brooks, Richmond, and I. V. Kimball, Indianapolis, Ind. Station-indicator	335,004	Jan. 26	2094	558 / 559	34	409
Wilson, David, assignor to F. H. Keane, Cappoquin, county of Waterford, Ireland. Belt-fastener	347,857	Aug. 24	1957	519	36	851
Wilson, David H., assignor of one-third to D. G. Tutt, St. Louis, Mo. Electric fence	343,939	June 15	1666	427	35	1326
Wilson, Edward A., Deckertown, N. J. Fastener for gloves, &c	348,604	Sept. 7	99	28	36	1065
Wilson, Edward R. (See Williams, George M., assignor.)						
Wilson, Eri F., Rochester, N. Y. Mop	335,005	Jan. 26	2100	559	34	410
Wilson, Fitzland L., West Bay City, Mich. Hoop pointing and lapping machine	348,307	Aug. 31	2613	703 / 704	36	979
Wilson, Floyd B., New York, N. Y. Nursery folding chair	348,939	Sept. 7	546	144	36	1147
Wilson, George A., Broad Green, near Liverpool, county of Lancaster, England. Rotary folding apparatus	345,352	July 13	767	192	36	144
Wilson, George R., Jr., assignor of one-half to M. J. O'Connell, Washington, D. C. Lemon-squeezer	340,025	Apr. 13	1329	332	35	243
Wilson, George W., assignor to American Bell Telephone Company, Boston, Mass. Hinge-connection for electrical instruments	352,596	Nov. 16	1209	328	37	700
Wilson, Geraldine B. (See Wilson, John P., assignor.)						
Wilson, Harry, Philadelphia, Pa. Feed-water heater	354,368	Dec. 14	1055	282	37	1206
Wilson, Henry. (See Cole, Thomas Z., assignor.)						
Wilson, Henry B., Paw Paw, Mich. Fence-post	336,196	Feb. 16	1594	418	34	738
Wilson, Henry H. (See Wilson, John J., assignor.)						
Wilson, Henry H., assignor of one-half to F. Pierce, Huntington, Ind. Wrench	343,940	June 15	1668	428	35	1326
Wilson, Hervey M., Fullerton, Nebr. Pipe-wrench	338,326	Mar. 23	1952	513	34	1301
Wilson, J. Chester. (See Fondersmith, Henderson, assignor.)						
Wilson, James O., and J. B. Coe, Clayton, Ill. Coffee-pot	353,966	Dec. 7	376	100	37	1075
Wilson, Jerome R., Eaton Rapids, Mich. Trellis	341,088	May 4	154	46	35	533
Wilson, Jerome B., assignor of one-half to J. T. Hall, Eaton Rapids, Mich. Harrow-tooth	343,363	June 8	711	176	35	1144
Wilson, John, New York, N. Y. Insulator for telegraph-wires	336,276	Feb. 16	1718	448	34	758
Wilson, John, New York, N. Y. Telegraph-insulator	346,971	Aug. 10	675	179	36	598
Wilson, John, New York, N. Y. Telegraph-insulator	346,972	Aug. 10	676	179	36	598
Wilson, John, New York, N. Y. Apparatus for manufacturing lamp-black	346,973	Aug. 10	676	180	36	598
Wilson, John, New York, N. Y. Brick-kiln	347,453	Aug. 17	1371	365	36	732
Wilson, John, New York, N. Y. Telegraph wire and insulator fastening	347,454	Aug. 17	1372	365	36	733
Wilson, John, New York, N. Y. Telegraph-wire and insulator fastening	349,022	Sept. 14	668	171	36	1173
Wilson, John A., assignor to J. R. Torrey, Worcester, Mass. Razor-strop	348,486	Aug. 31	2859	769	36	1026
Wilson, John C. (See Wilson, William L. and J. C.)						
Wilson, John C., Brownwood, Tex. Feed-cutter	341,199	May 4	315	89	35	563
Wilson, John C., Boston, Mass. Telephone-call	336,972	Mar. 2	117	32	34	947
Wilson, John C., Boston, Mass. District signaling apparatus	339,960	Apr. 13	1232	307	35	226
Wilson, John C., Boston, Mass. Fire-alarm telegraph	341,114	May 4	194	60 61	35	541
Wilson, John C., Boston, Mass. District or fire-alarm telegraph	341,115	May 4	198	61	35	541
Wilson, John C., Boston, Mass. Municipal signal apparatus	344,467	June 29	2407	620	35	1472
Wilson, John C., Boston, Mass. Electric time-detector	351,681	Oct. 26	2291	593	37	439
Wilson, John C., Boston, Mass. Printing-telegraph system	352,435	Nov. 9	1005	271	37	651
Wilson, John C., Boston, Mass., assignor to Municipal Signal Company, Portsmouth, N. H. Signal-box for fire-telegraph and other circuits	344,430	June 29	2365	609	35	1466
Wilson, John D., Greenleaf, Kans. Road-cart	336,973	Mar. 2	120	33	34	947
Wilson, John D., Greenleaf, Kans. Tether	340,649	Apr. 27	2227	584	35	418
Wilson, John E. (See Brown and Wilson.)						
Wilson, John J., Green Precinct, assignor of one-half to H. H. Wilson, Lincoln, Nebr. Fan-blast regulator	336,537	Feb. 16	2071	544	34	823
Wilson, John M., Chicago, Ill. Spring bed-bottom	336,538	Feb. 16	2072	545	34	823
Wilson, John P. (See Slater, Jacob G., assignor.)						
Wilson, John P., assignor to G. B. Wilson, Poughkeepsie, N. Y. Car-coupling	352,104	Nov. 2	544	144	37	560
Wilson, John T. (See Mangan and Wilson.)						
Wilson, John T., Pittsburg, Pa. Car-coupling	336,778	Feb. 23	2412	634	34	891
Wilson, John T., Pittsburg, Pa. Car-coupling	341,711	May 11	1033	274	35	708
Wilson, Joseph, Philadelphia, Pa. Flush-tank	354,000	Dec. 7	508	137	37	1099

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Wilson, Joseph A., Hood River, Oreg. School-desk	340,847	Apr. 27	2489	656	35	465
Wilson, Joseph B., Clayton, N. J. Air-tight jar	348,084	Aug. 24	2289	613	36	912
Wilson, Joseph C., *et al.* (See Askin, George P., assignor.)						
Wilson, Joseph C., *et al.* (See Spencer, Esther R., assignor.)						
Wilson, Joseph C., assignor of one-half to E. R. Spencer, and H. F. Atkinson, Rochester, N. Y. Lacing-bearing	343,146	June 1	537	136	35	1104
Wilson, Joseph C., assignor of one-half to E. R. Spencer, Rochester, N. Y. Lacing-bearing	343,975	June 15	1720	440	35	1335
Wilson, Joseph O., Chester, Pa. Speed-controller	345,754	July 20	1376	358	36	260
Wilson, Joseph P., Centralia, Kans. Exhibiting device	343,882	June 15	1595	406	35	1311
Wilson, Levi, Providence, R. I. Spindle	340,848	Apr. 27	2490	656	35	465
Wilson, M. J., *et al.* (See Finnegan, Charles C., assignor.)						
Wilson, Martin M., Honey Grove, Tex. Water heater and purifier	352,638	Nov. 16	1270	342	37	710
Wilson & McCallay. (See Wilson, Robert, assignor.)						
Wilson, McDowell, Haskins, Ohio. Fence	338,902	Mar. 30	2775	731	34	1451
Wilson, Merrick F., Chicago, assignor of one-half to C. R. Steele and V. C. Price, Waukegan, Ill. Box-former	341,978	May 18	1380	368, 369	35	780
Wilson, Merrick F., Chicago, assignor of one-half to C. R. Steele and V. C. Price, Waukegan, Ill. Box-former	350,961	Oct. 19	1213	322	37	235
Wilson, Michael H., Brooklyn, N. Y. Barber's pole	354,961	Dec. 28	1905	562	37	1382
Wilson, Milo L., W. and P. O. Sanders, Jefferson, Ind. Auxiliary shovel or spade handle	344,890	July 6	136	34	36	24
Wilson, Needham M., Philadelphia, Pa Velocipede-wheel	348,605	Sept. 7	100	20	36	1066
Wilson, Newton S., West Butte, Cal. Traveling thrasher	334,833	Jan. 26	1876	499, 500	34	369
Wilson, Robert, assignor to Wilson & McCallay, Middletown, Ohio. Tobacco-drier	333,985	Jan. 5	669	183	34	125
Wilson, Robert H., Montezuma, Ind. Thill-coupling	338,008	Mar. 16	1527	396	34	1213
Wilson, Robert M., Boston, Mass. Folding gate	351,084	Oct. 19	1413	371	37	270
Wilson, Samuel C., Forrest City, Ark. Car-coupling	339,122	Mar. 30	3088	817	34	1505
Wilson, Thomas E., Fairmland, Ind. Automatic gate	339,249	Apr. 6	197	50	35	37
Wilson, Thomas M., Mount Sterling, Ill. Truss	344,468	June 29	2412	621	35	1473
Wilson, William, Bloomington, Ill. Valve-gear	333,706	Jan. 5	287	78	34	54
Wilson, William, Bloomington, Ill. Steam-engine	339,961	Apr. 13	1234	307	35	226
Wilson, William, Bloomington, Ill. Valve-gear for steam-engines	353,044	Nov. 23	1835	493, 494	37	834
Wilson, William, Edgewater, N. J. Manufacturing wall-paper	335,264	Feb. 2	253	67	34	485
Wilson, William C., Philadelphia, Pa. Inhaler	341,712	May 11	1034	274	35	708
Wilson, William C., assignor of one-eighth to F. Raymond, Brooklyn, N. Y. Liquid-containing vessel	341,366	May 4	553	153	35	604
Wilson, William G., and G. Zimmermann, Philadelphia, Pa. Combined spring-bed and fire-escape	338,127	Mar. 16	1685	438	34	1243
Wilson, William H., Westfield, N. Y. Sectional steam-boiler	338,128	Mar. 16	1686	438, 439	34	1244
Wilson, William H., assignor of one-half to R. D. Rockwell, Westfield, N. Y. Saw-gage	344,469	June 29	2413	621	35	1473
Wilson, William J., Pittsburg, Pa. Hose-clamp	341,365	May 4	552	153	35	604
Wilson, William J., Wabash, Ind. Gate	348,940	Sept. 7	546	144	36	1147
Wilson, William L. and J. C., Cynthiana, Ind. Gate	337,104	Mar. 2	294	78	34	980
Wilson, William T., Buffalo, N. Y. Car-coupling	349,555	Sept. 21	1395	361	36	1321
Wilson, William V., Jubilee Street, Mile End, county of Middlesex, England. Ornamenting wall and other papers	340,026	Apr. 13	1330	.....	35	243
Wilson, William V., Jubilee Street, county of Middlesex, and J. Storey, Lancaster, county of Lancaster, England; said Story assignor to said Wilson. Manufacture of artificial leather or leather-cloth	352,726	Nov. 16	1393	.....	37	734
Wilt, Abram D., Dayton, Ohio. Account book or holder	341,367	May 4	554	153	35	605
Wilt, Ambrose, Bourneville, Ohio. Check-rower	345,563	July 13	1095	279	36	202
Wilt, Frank D., assignor to B. F. Schlegel, Allentown, Pa. Reclining-chair	343,654	June 15	1287	323	35	1254
Wilz, Michael, *et al.* (See Largent, James J., assignor.)						
Wimpee, William, Rome, Ga. Cultivator, cotton-planter, and fertilizer-distributer	347,545	Aug. 17	1500	397, 398	36	757
Wimer, James. (See Branchler, Henry, assignor.)						
Wimmer, Ernest J. (See Dietz, Joseph A., assignor.)						
Winans, Henry E., and G. N. Wooden, Newark, N. J. Shot-concentrator	336,680	Feb. 23	2289	598	34	867
Winans, Henry L. (See Perry, Edward L., assignor.)						
Winans, Ira, Rochester, N. Y. Table-leaf support	335,265	Feb. 2	254	67	34	486
Winans, Thomas J., assignor to J. P. Noyes & Co., Binghamton, N. Y. Button	341,532	May 11	776	209	35	657
Winchell, James F., assignor to Foos Manufacturing Company, Springfield, Ohio. Crushing and grinding mill	342,158	May 18	1628	436	35	827
Winchell, James F., assignor to Foos Manufacturing Company, Springfield, Ohio. Crushing and grinding mill	342,311	May 18	1848	489	35	866
Winchell, James F., assignor to Foos Manufacturing Company, Springfield, Ohio. Hulling-mill	343,514	June 8	1090	273	35	1211
Winchester, Edward S., Dorchester, Mass. Door-latch	345,016	July 6	315	79	36	58
Winchester Repeating Arms Company. (See Albee, George E., assignor.)						
Winchester Repeating Arms Company. (See Bennett, Thomas G., assignor.)						
Winchester Repeating Arms Company. (See Browning, John M. and M. S., assignors.)						
Winchester Repeating Arms Company. (See Chaffee, Reuben S., assignor.)						
Winchester Repeating Arms Company. (See Clough, Jefferson M., assignor.)						
Winchester Repeating Arms Company. (See Fowler, Herbert E., assignor.)						
Winchester Repeating Arms Company. (See Mason, William, assignor.)						
Winchester Repeating Arms Company. (See Randall, Jason L., assignor.)						
Winchester Repeating Arms Company. (See Wetmore, William W., assignor.)						
Windle, John E., Worcester, Mass. Machine for winding cloth	349,774	Sept. 28	1710	441	36	1387
Windler, Ferdinand, Keokuk, Iowa. Car-coupling	333,986	Jan. 5	671	184	34	126
Windler, Ferdinand, Keokuk, Iowa. Car-coupling	336,029	Feb. 9	1325	350	34	664
Windt, Henry T., Toronto, Ontario, Canada. Carpet-fastener	340,902	Apr. 27	2564	675	35	478
Windt, Henry T., Toronto, Ontario, Canada. Wire fabric	340,903	Apr. 27	2565	675	35	478
Windt, Henry T., assignor to Toronto Wire Mat Company, Toronto, Ontario, Canada. Door-mat	340,901	Apr. 27	2563	675	35	478
Windt, Henry T., assignor to Toronto Wire Mat Company, Toronto, Ontario, Canada. Door-mat	341,116	May 4	201	61	35	542
Wine, M. J. (See Rountree, Joseph W., assignor.)						
Wine, Miletus J., Washington, D. C. File-box. (Reissue)	10,737	June 15	1723	440, 441	35	1336
Winebrenner, Henry C., Baltimore, Md., assignor to Scott Manufacturing Company of Baltimore City. Steam-crane	337,724	Mar. 9	1132	292	34	1135

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Wineman, Marx. (See Faas, Rudolph, assignor.)						
Winey, Elijah L., East Orange, N. J. Bicycle	353,904	Dec. 7	368	98	37	1074
Winey, Elijah L., East Orange, N. J. Lamp	353,905	Dec. 7	369	98	37	1074
Winfield, William C., Warren, Ohio. Tubular lantern	353,343	Nov 30	2254	603	37	912
Winfield, William C., assignor of two-thirds to R. A. Cobb and O. R. Grimmesey, Warren, Ohio. Pressure-blower	355,111	Dec. 28	2116	556	37	1421
Winfrey, Edgar M., and A. G. Branham, Fort Worth, Tex. Rein-holder	340,849	Apr. 27	2491	656	35	465
Wing, Byron E. (See Loomis and Wing.)						
Wing, Charles U. (See Wing, Frank L., assignor.)						
Wing, Daniel S., Syracuse, assignor of one-eighth to W. A. Cameron, New York, N. Y. Truck	355,238	Dec. 28	2307	608	37	1459
Wing, Frank L., Brooklyn, assignor to C. U. Wing, New York, N. Y. Piano-key-bed support	350,517	Oct. 12	586	163	37	114
Wing, George S., Alexander, N. Y. Pail ear	350,280	Oct. 5	246	71	37	51
Wing, James A. (See Merrill and Wing.)						
Wing, Levi J., Brooklyn, N. Y. Ventilating apparatus for buildings	343,289	June 8	753	187	35	1152
Wing, Levi J., Brooklyn, N. Y. Abdominal protector	351,893	Nov. 2	231	65	37	501
Wing, William S. (See Newton, Collins F., assignor.)						
Wingard, Edwin V., Philadelphia, Pa. Lime-kiln	346,835	Aug. 3	475	131	36	553
Winkler, Alphens, *et al.* (See Fisher, John R. and L. T., assignors.)						
Winkler, Friedrich G., Zschopau, Germany. Flour-bolt	339,723	Apr. 13	927	227	35	169
Winkler, John C., *et al.* (See Fisher, John R. and L. T., assignors.)						
Winkler, Paul, Chicago, Ill. Bridge-gate	341,979	May 18	1382	369	35	781
Winnek, Frederick G., and J. W. Brown, Leavenworth, Kans. Tongue-support	353,906	Dec. 7	370	98	37	1074
Winship, William F., Albany, N. Y. Newspaper-file	338,682	Mar. 23	2446	645	34	1386
Winslow, Edward J. (See Davis, Henry J., assignor.)						
Winsor, Jason C., Brockton, Wis. Extension-ladder	348,257	Aug. 31	2543	683	36	965
Winsor, Peter. (See Van Ness, Orrin C., assignor.)						
Winsted Norway Bolt Company. (See Stacker, John, assignor.)						
Winston, John R., Hycotee, N. C. Vehicle-wheel	346,008	July 20	1733	447	36	323
Winter, David T., assignor to H. W. Winter, Peabody, Mass. Automatic door-closer	334,834	Jan. 26	1878	500	34	370
Winter, Frederick A., Thomson, Ga. Reel for measuring rope	353,107	Nov. 23	1925	516	37	843
Winter, Harry E., *et al.* (See Frost, Walter, assignor.)						
Winter, Helena W. (See Winter, David T., assignor.)						
Winter, Herman, Brooklyn, N. Y. Apparatus for towing and securing hawsers or lines of vessels	336,829	Feb. 23	2477	651	34	903
Winter, Herman, Brooklyn, N. Y. Towing vessels	336,830	Feb. 23	2478	652	34	903
Winter, Hermann. (See Boës and Winter.)						
Winter, Hermann, Hermann, Mo. Invalid-bedstead	352,941	Nov. 23	1680	451	37	797
Winter, John F., assignor to G. W. McGill, New York, N. Y. Buckle	338,327	Mar. 23	1953	514	34	1301
Winter, Oscar O., assignor of one-half to F. H. Perry, Des Moines, Iowa. Car-coupling	345,608	July 13	1151	294	36	213
Winterhalder, Louis, Brooklyn, assignor to New Haven Clock Company, New York, N. Y. Telegraph-register	338,328	Mar. 23	1954	514	34	1302
Winternight, Henry A. (See Hitchcock and Winternight.)						
Winterros, Clas E. (See Larsen and Winterros.)						
Winters, Charles. (See Mortenson, Hans, assignor.)						
Winters, David F., Nassau, N. Y. Step for vehicles	342,817	June 1	56	14	35	1016
Winterwerber, Heinrich, Offenbach-on-the-Main, Germany. Paper-drier	334,150	Jan. 12	912	249, 250	34	178
Winterwerber, Heinrich, Offenbach-on-the-Main, Germany. Machine for winding fabrics	335,870	Feb. 9	1102	291, 292	34	646
Winterwerber, Heinrich, Offenbach-on-the-Main, Germany. Winding-machine	354,294	Dec. 14	958	253, 254	37	1187
Winton, Henry D. (See Hersey and Winton.)						
Winton, Henry D., Wellesley Hills, Mass. Electric insulator	352,436	Nov. 9	1007	271, 272	37	654
Winton, Henry D., Wellesley Hills, Mass. Electric insulator	352,437	Nov. 9	1008	272	37	655
Wire Goods Company. (See Cooper, George N., assignor.)						
Wirgman, James, Jr. (See McCarty, Cornelius M., assignor.)						
Wirsching, Aloys, Brooklyn, N. Y. Printing-telegraph instrument	354,001	Dec. 7	509	137, 138	37	1099
Wirt, Charles, Chicago, Ill. Electrical indicator	345,755	July 20	1377	358	36	260
Wirt, Charles, Chicago, Ill. Electric battery	345,756	July 20	1379	358	36	261
Wirths, Hugo, Brooklyn, N. Y. Making waistbands	352,967	Nov. 23	1716	460	37	803
Wirtz, Frederick M., Columbus, Ohio. Cigar clipper and lighter	343,746	June 15	1434	358	35	1280
Wise, Benjamin F., *et al.* (See Ames, Joseph R. and S. K., assignors.)						
Wise Bros. (See Crain, William, assignor.)						
Wise, Solomon. (See Plumb and Wise.)						
Wise, William L., Lamonte, Mo. Churn	347,020	Aug. 10	744	198	36	610
Wiseheart, Jacob H., Chico, assignor of one-half to J. A. Bruner, San Rafael, Cal. Elevator	335,408	Feb. 2	451	117	34	522
Wiselogel, John A. (See Williams and Wiselogel.)						
Wiseman, Arthur G., Webster Groves, Mo. Winding-indicator for watches	335,666	Feb. 9	809	215	34	592
Wiseman, Theodore, Lawrence, Kans. Street car heater	353,108	Nov 23	1926	517	37	843
Wiser, David, assignor of two-thirds to H. B. Whitlock and J. V. Astley, Plymouth, Ind. Drive-well filter	342,667	May 25	2367	626	35	968
Wisner, A. Jackson and A., assignors of one-half to M. F. Richardson, Philadelphia, Pa. Mold for candy whistles	347,406	Aug. 17	1298	346	36	721
Wisner, Albert. (See Wisner, A. Jackson and A.)						
Wisner, Andrew J., assignor of one-half to M. F. Richardson, Philadelphia, Pa. Air-brake	335,049	Jan. 26	2168	576	34	420
Wissler, Aaron, Brunersville, Pa. Conveyer	351,014	Oct. 19	1319	346	37	254
Wiswell Electric Mining Machinery Company. (See Wiswell, Jacob C., assignor.)						
Wiswell, Frederick A., Montreal, Quebec, Canada. Strand former or die	339,357	Apr. 6	348	85	35	65
Wiswell, Jacob C., Medford, Mass., assignor to Wiswell Electric Mining Machinery Company, Portland, Me. Apparatus for treating ores	336,030	Feb. 9	1327	351	34	684
Wiswell, Jacob C., Medford, Mass., assignor to Wiswell Electric Mining Machinery Company, Portland, Me. Ore-crusher	337,726	Mar. 9	1134	292, 293	34	1136
Witchell, Harry J. (See Braddock and Witchell.)						
Witherell, Erie A. (See Witherell, Loren R. and E. A.)						
Witherell, Frank D., assignor of one-half to B. F. De Costa, Cambridge, Mass. Paper cutting machine	353,045	Nov. 23	1837	494	37	824
Witherell, Loren R., assignor to E. Russell, J. N. Greer, and H. B. Harford, Davenport, Iowa. Weighing apparatus	340,181	Apr. 20	1554	393	35	289
Witherell, Loren R. and E. A., assignors to Davenport Portable Scale Company, Davenport, Iowa. Portable scale for weighing vehicles	344,762	June 29	2802	726	35	1546

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Witherow, James P. (See Dudley, William L., assignor.)						
Witherow, James P., *et al.* (See Murdock, William M., assignor.)						
Witherspoon, Sewall A., St. Louis, Mo. Switch for cable railways	354,295	Dec. 14	959	254	37	1187
Withington, Cooley & Co. (See Smith, Alexander G., assignor.)						
Withington, James, Chambersburg, assignor to Trenton Iron Company, Trenton, N. J. Machine for straightening wire	333,707	Jan. 5	288	78, 79, 80	34	55
Withrow, Jesse P., Kammerer, Pa. Corn-husker	336,974	Mar. 2	122	33	34	948
Withrow, Joseph A., Scranton City, Iowa. Hay-rack	337,105	Mar. 2	295	78	34	981
Witkowski, Simon. (See Hollingsworth, Joseph, assignor.)						
Witman, Harry A., Wernersville, Pa. Door-securer	338,214	Mar. 16	1799	469	34	1266
Witmeyer, August. (See Sherman, Willis S., assignor.)						
Witt, Eduard, Aachen, Germany. Automatic apparatus for measuring and registering grain	345,353	July 13	768	193	36	144
Witt, John H. G., and J. J. F. Popp, Philadelphia, Pa.; said Popp assignor to said Witt. Stamp-canceler	351,348	Oct. 19	1763	463	37	335
Witt, Joseph H., Bobring, Mo. Plant-shield for plows	348,941	Sept. 7	548	144	36	1147
Wittemann, Jacob F., New York, N. Y. Bottle-capping machine	351,554	Oct. 26	2090	545	37	403
Wittemann, Rudolph A., New York, N. Y. Sulphuring-tube	355,050	Jan. 26	2169	576	34	421
Witthauer, August, Pittsburg, Pa. Ornamentation of glassware	353,523	Nov. 30	2525	.....	37	963
Wittmann, John, and N. B. Yingling, Seven Mile, Ohio. Belt-gearing	355,239	Dec. 28	2308	608	37	1460
Wittmann, Rudolf C., East New York, N. Y. Time-register for billiards	346,880	Aug. 3	544	148	36	566
Wittram, Frederick, San Francisco, Cal. Slate-cleaner	336,612	Feb. 23	2186	570	34	848
Wittstadt, Friedrich, Würzburg, Bavaria, Germany. Accordion	335,552	Feb. 2	646	169	34	556
Witzel, Charles, Brooklyn, N. Y. Sash-fastener	335,409	Feb. 2	453	117	34	522
Witzig, Charles, assignor to M. Kauth, Buffalo, N. Y. Baking-machine	336,681	Feb. 23	2290	598	34	867
Wivel, Oliver P., Baltimore, Md. Car-starter	349,620	Sept. 21	1478	382	36	1339
Wnuck, August and C. E., Cincinnati, Ohio. Coach-platform	340,068	Apr. 13	1385	348	35	253
Wnuck, Charles E. (See Wnuck, August and C. E.)						
Woerd, Charles V., Waltham, Mass. Stem winding and setting mechanism for watches	340,850	Apr. 27	2492	656	35	466
Woerd, Charles V., Waltham, Mass. Stem winding and setting watch	341,786	May 11	1121	297	35	724
Woerd, Charles V., Waltham, Mass. Stem-winding watch	354,002	Dec. 7	511	138	37	1099
Woerner, Francis, and S. E. Nies, Reading, Pa. Glass-cutting frame	342,159	May 18	1630	436	35	828
Woglom, William H. (See Vanhorn, Joseph S., assignor.)						
Wohlers, Cordt, Brownsville, Mo. Curtain-fixture	354,369	Dec. 14	1056	282	37	1207
Wohlfert, Frederic W., New York, N. Y. Chimney cap and ventilator	352,597	Nov. 16	1210	328	37	700
Wohlrab, Sylvan, assignor to F. Prinz, Milwaukee, Wis. Smut-machine	337,219	Mar. 2	446	117	34	1009
Wolcott, Amos A., Tom's River, N. J. Pivot-cutting implement	349,470	Sept. 21	1283	333	36	1299
Wolcott, Anson, Wolcott, Ind. Conveying apparatus	333,987	Jan. 5	673	184	34	126
Wolcott, Anson, Wolcott, Ind. Grain-drier	346,449	July 27	2358	605	36	449
Wolcott, Henry E., assignor to W. C. Anderson, Syracuse, N. Y. Oil-can	344,929	July 6	186	47	36	35
Wolcott, Hyman D., Wrights, Pa. Circular-saw dresser	343,785	June 15	1477	370, 371	35	1288
Wolf, Christopher C., *et al.* (See Neff, Elijah, assignor.)						
Wolf, Daniel. (See Hillebrand, Louis, assignor.)						
Wolf, Jacob, Stillwater, Minn. Churn	351,555	Oct. 26	2101	545	37	404
Wolf, John L., Springfield, Ohio. Corn-harvester	335,170	Feb. 2	105	28, 29	34	460
Wolf, Josef, Hoboken, N. J. Bag, satchel, &c	348,085	Aug. 24	2290	614	36	912
Wolf, Joseph, Milwaukee, Wis. Box-fastener	345,609	July 13	1152	295	36	213
Wolf, Peter M., Plymouth, Wis. Roller-gate hinge	350,334	Oct. 5	315	89	37	64
Wolfe, Harvey R., assignor to Brennan & Co. Southwestern Agricultural Works, Louisville, Ky. Circular-saw mill	335,729	Feb. 9	906	239	34	610
Wolfe, Jacob W., assignor of one-half to A. L. Ritchey, Nashville, Tenn. Fire-place	336,682	Feb. 23	2291	599	34	867
Wolfe, James W., assignor of one-half to W. H. McMillan, Oak Grove, Mich. Draft-equalizer	346,080	July 20	1825	471	36	341
Wolfe, John J., West Millville, Pa. Vehicle-spring	342,160	May 18	1631	436	35	828
Wolfertz, Charles W., *et al.* (See Wolfertz, Herman, assignor.)						
Wolfertz, Herman, assignor of one-half to C. W. Wolfertz and J. R. Pemberthy, Detroit, Mich. Car-axle	346,009	July 20	1734	447	36	324
Wolff, Constant, San Francisco, Cal. Ironing-machine	341,980	May 18	1383	369	35	781
Wolff, George S., Philadelphia, Pa. Treating lac	345,202	July 6	553	.....	36	101
Wolff, George S., Philadelphia, Pa. Product from lac	345,203	July 6	554	.....	36	101
Wolff, Hermann, Milwaukee, assignor to Webster Manufacturing Company, Menasha, Wis. Tilting-chair iron	353,616	Nov. 30	2669	715	37	989
Wolff, Joseph G., Paris, France. Article of furniture	335,667	Feb. 9	810	216	34	593
Wolff, Justus. (See Rigney and Wolff.)						
Wolff Manufacturing Company, L. (See Clifford, John, assignor.)						
Wolford, Charles H., Louisville, Ky. Carburetor	341,299	May 4	470	127	35	590
Wollfram, Adam C., St. Louis, Mo. Shutter-fastener	341,533	May 11	778	209	35	657
Wolgamuth, Francis F., Southampton, Pa. Harrow or cultivator tooth	349,967	Sept. 28	1963	507	36	1438
Wolle, Clarence A., *et al.* (See Honiss, William H., assignor.)						
Wolle, Clarence A., *et al.* (See Lorenz, William A., assignor.)						
Wolle, Clarence A., *et al.* (See Lorenz and Honiss, assignors.)						
Wollensak, John E., Chicago, Ill. Transom-lifter	336,975	Mar. 2	122	33	34	948
Wollensak, John E., Chicago, Ill. Transom-lifter	349,621	Sept. 21	1479	382	36	1339
Woloban, James, Sr., *et al.* (See Bogner, John H., assignor.)						
Woloban, Louis P., *et al.* (See Bogner, John H., assignor.)						
Woltmann, Jacob. (See Dombrowski and Woltmann.)						
Wolverton, Simon P. (See Gifford, George, assignor.)						
Womer, Isaac. (See Sweeny and Womer.)						
Wonacott, Charles, Murphy's, Cal. Cartridge-loading machine	347,458	Aug. 17	1372	365	36	733
Wonser, Mileden, Kingston, Kans. Grain-drill	337,543	Mar. 9	913	234	34	1096
Wood, Alexander M. (See Beman, Beckwith, and Wood.)						
Wood, Alfred, Trenton, N. J. Wrench	347,262	Aug. 10	1084	290	36	672
Wood Automatic Button Fastener Company. (See Wood, William H., assignor.)						
Wood, Charles D. (See Compal and Wood.)						
Wood, Charles H., Wrentham, assignor to T. I. Smith, North Attleborough, Mass., and C. G. Bloomer, Cranston, R. I. Button or stud	344,609	June 29	2607	675	35	1511
Wood, Charles L., Oshkosh, Wis. Dust-removing apparatus	345,610	July 13	1153	295	36	213
Wood, David B., Sibley, Iowa. Windmill	343,786	June 15	1479	371	35	1288
Wood, Edmund M., Natick, and A. G. Mead, Boston, Mass. Bottling-machine	333,708	Jan. 5	293	80, 81, 82	34	55
Wood, Egbert O., Nashua, N. H. Sad-iron	341,619	May 11	904	241	35	682
Wood, Elizabeth, Evansville, Ind. Draft-regulator	341,300	May 4	472	127	35	590

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Wood, Francis, Brooklyn, N. Y. Machine for gathering the folded sheets or signatures of a book for binding	336,878	Feb. 23	2548	671	34	916
Wood, Frank B., New York, N. Y., assignor to New Haven Clock Company, New Haven, Conn. Telegraph-register	338,329	Mar. 23	1956	514 515	34	1302
Wood, Frederick A., Jersey City, N. J. Hat-holder	344,555	June 29	2541	656	35	1497
Wood, Frederick S. (See Duff and Wood.)						
Wood, G. W., *et al.* (See Crepeau, Henry T., assignor.)						
Wood, George, Philadelphia, Pa. Steam-motor	342,721	May 25	2459	651 652	35	985
Wood, George, Philadelphia, Pa. Lathe for turning spirals	352,901	Nov. 16	1618	435	37	777
Wood, George W., Buffalo, N. Y. Bell-cord coupling	341,301	May 4	473	128	35	591
Wood, Henry A. W., New York, N. Y. Umbrella	349,023	Sept. 14	668	172	36	1173
Wood, Hermon G., assignor of one-fourth to E. A. Wheeler, Sharon, Pa. Type-writing machine	334,920	Jan. 26	1986	529	34	390
Wood, Hylas, Marysville, Ohio. Halter	341,200	May 4	316	89	35	563
Wood, Ira. (See Thomas and Wood.)						
Wood, Irving T., assignor of one-half to J. J. Geiger, Clyde, Ohio. Combined pole and shafts	349,292	Sept. 14	1023	261	36	1241
Wood, James J., Brooklyn, assignor to Fuller Electrical Company, New York, N. Y. Electric-arc lamp	337,289	Mar. 2	547	144	34	1027
Wood, John H., Lebanon, Ohio. Vulcanizable gilding-rubber	343,413	June 8	955		35	1188
Wood, John, Jr., Beverly, and A. J. Philbrick, Salem, Mass. Pedal for velocipedes	336,277	Feb. 16	1719	449	34	758
Wood, John B., Providence, R. I. Knob attachment	352,942	Nov. 23	1682	451	37	797
Wood, Joseph, Red Bank, and M. S. Drake, Newark, assignors to S. Wood, Red Bank, N. J., and said Drake. Car-coupling	350,518	Oct. 12	589	163	37	114
Wood, Joseph B., assignor of two-thirds to C. W. Tremain and W. B. Rouse, Chicago, Ill. Knife for wood-working machinery	350,520	Oct. 12	591	164	37	114
Wood, Joseph S., Brooklyn, N. Y. Gas-machine	345,402	July 13	837	210	36	156
Wood, Julia B., *et al.* (See Heon, George, assignor.)						
Wood, Leander W., Fontanelle, Iowa. Fastener for lacings	353,524	Nov. 30	2525	673	37	963
Wood, Leander W., and W. Morley, Fontanelle, Iowa. Nose-ring for swine	353,651	Nov. 30	2728	728	37	999
Wood, Lucius A., Worcester, Mass., assignor of one-half to J. S. and F. J. Brand, New Britain, Conn. Attaching wires and rods together	345,655	July 13	1237	320	36	228
Wood, Lucius A., Worcester, Mass., assignor of one-half to A. P. Carpenter, Brattleborough, Vt. Manufacture of organ-reeds	347,546	Aug. 17	1501	398	36	757
Wood, Luther B., Omaha, Nebr. Lantern	355,240	Dec. 28	2309	608	37	1460
Wood Mowing and Reaping Machine Company, Walter A. (See Rosebrooks, John M., assignor.)						
Wood, Pleasant F. (See Sly and Wood.)						
Wood, Richard G., Cincinnati, Ohio. Registering and canceling ballot-box	340,069	Apr. 13	1386	348	35	253
Wood, Richard G., McKeesport, Pa. Making sheet-iron	348,258	Aug. 31	2544	683	36	965
Wood, Rosto O., *et al.* (See Heon, George, assignor.)						
Wood, Sophire. (See Wood and Drake, assignors.)						
Wood Starch Company, Julius J. (See Midgley, William H., assignor.) (Reissue.)						
Wood, Stephen W., assignor to Annex Pencil Company, New York, N. Y. Pen and pencil case	339,123	Mar. 30	3089	817	34	1505
Wood, Taber & Morse. (See Taber, Loyal C., assignor.)						
Wood, Thomas D. (See Trees, Joseph T., assignor.)						
Wood, Walter J., Atlanta, Ga. Automatic cut-off for water-pipes	345,017	July 6	317	80	36	58
Wood, Warren M. (See Wright and Wood.)						
Wood, William. (See Henzel and Wood.)						
Wood, William H. (See Haight and Wood.)						
Wood, William H., Hartford, Conn. Vapor-engine	338,814	Mar. 30	2643	697	34	1428
Wood, William H., Hartford, Conn. Device for converting motion	349,775	Sept. 28	1713	441	36	1388
Wood, William H., New York, N. Y. Refrigeration and ice machine	346,184	July 27	1970	508	36	378
Wood, William H., assignor to Wood Automatic Button Fastener Company, Rochester, N. Y. Instrument for attaching buttons	352,214	Nov. 9	723	193	37	599
Wood, William T., Washington, D. C. Paper-file	341,391	May 4	595	163	35	613
Woodard, Alvin N., Charleston, W. Va. Lifting-jack	348,086	Aug. 24	2291	614	36	912
Woodard, Francis C., Gridley, Ill. Combined tile-ditcher and grader	347,282	Aug. 10	1110	297 298	36	677
Woodard, John E. (See Smith and Woodard.)						
Woodburn, James R., St. John, New Brunswick, Canada. Pulverizing-machine	334,098	Jan. 12	841	230 231	34	163
Woodbury, Daniel A., Rochester, N. Y. Balanced valve	334,835	Jan. 26	1880	500 501	34	370
Woodbury, Daniel A., Rochester, N. Y. Fastening soft-metal wearing-surfaces in journal-boxes	337,468	Mar. 9	830	207	34	1080
Woodbury, Daniel A., Rochester, N. Y. Cranked shaft	344,930	July 6	187	47	36	35
Woodbury, Frank. (See Messer and Woodbury.)						
Woodbury, Frank P., Salem, N. H. Boot or shoe	343,747	June 15	1436	358	35	1280
Woodbury, George E., San Francisco, Cal. Ore-feeder	353,727	Dec. 7	109	29, 30	37	1026
Woodbury, George E., Charlotte, assignor of one-half to B. W. Pinch, Olivet, Mich. Hammock	342,668	May 25	2368	626	35	968
Woodbury, James A., *et al.* (See Daelen, Lambert A., assignor.)						
Woodbury, Levi, Washington, D. C., assignor of two-thirds to E. H. Graham, Biddeford, Me. Needle-loom	344,470	June 29	2414	621 622	35	1474
Wooden, George N. (See Winans and Wooden.)						
Woodford, Edwin H., assignor to White, Corbin & Company, Rockville, Conn. Drying attachment for envelope-machines	336,976	Mar. 2	124	33	34	948
Woodford, W. W. (See Cooke, Edward C., assignor.)						
Woodhouse, John A., Santa Ana, Cal. Well-boring tool	349,192	Sept. 14	899	231	36	1216
Wooding, Ralph A., Kensington, Conn. Door-bell	344,763	June 29	2804	726	35	1546
Wooding, Ralph A., Kensington, Conn. Riveting-tool	349,622	Sept. 21	1480	382	36	1339
Wooding, Ralph A., Kensington, Conn. Hame-chime	349,623	Sept. 21	1481	383	36	1339
Woodley, Jonathan M., Clio, S. C. Plow	349,916	Sept. 28	1891	489	36	1424
Woodley, Thomas E., Lynn, assignor to J. G. McCarter, Boston, Mass. Seam-stay for boots and shoes	341,864	May 11	1228	328	35	745
Woodman, Hannibal W. (See Macdonald and Woodman.)						
Woodman, Reuel W., Bar Mills, Me. Knockdown bed-bottom	347,980	Aug. 24	2143	570	36	883
Woodman, Robert, Malden, Mass. Ticket-punch	351,556	Oct. 26	2101	542	37	404
Woodman, Wilber B., Newark, N. J. Corkscrew	344,556	June 29	2542	657	35	1497
Woodmancy, Henry F., Whitinsville, Mass. Bolster for spinning-machine spindles	338,228	Mar. 16	1830	478	34	1272
Woodmanse, Harrison, Freeport, Ill. Windmill	334,553	Jan. 19	1506	403	34	291

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Woodmansee, Charles H., Norton, Kans. Car-seat	343,414	June 8	956	238	35	1188
Woodring, Gideon, Du Bois, Pa. Nut-lock	334,836	Jan. 26	1882	501	34	370
Woodroffe, William A., Mechunis River, Va. Cutter-head	348,367	Aug. 31	2685	723	36	994
Woodruff, Edmund W., Washington, D. C. Cabinet for file-holders	335,668	Feb. 9	811	216	34	593
Woodruff, John I., and W. H. Wagner, Selin's Grove, Pa. Cultivator	354,003	Dec. 7	513	138 / 139	37	1099
Woodruff, John I. D. and L. Y., St. Charles, Ky. Plaiting apparatus	344,335	June 22	2225	573	35	1433
Woodruff, Launcy Y. (See Woodruff, John I. D. and L. Y.)						
Woodruff, Oliver D., Southington, Conn. Meat-cutter	352,023	Nov. 2	424	115	37	537
Woods, John, Columbia, Tenn. Plane	334,324	Jan. 12	1185	318	34	228
Woods, John M. (See Dykes and Woods.)						
Woods Machine Company, S. A. (See Tillison, Hosea R., assignor.)						
Woods, Solomon A., Boston, Mass. Planing and matching machine	351,303	Oct. 19	1705	447 / 448	37	324
Woods, William A., and C. C. Garcelon, Santa Cruz, Cal. Ore-concentrator	347,909	Aug. 24	2036	538 / 539	36	864
Woodson, William A. (See Hurd, Stanza, and Woodson.)						
Woodstock, Warren Z., Carthage, Mo., assignor of one-half to A. A. Ulman, Bay St. Louis, Miss. Let-off mechanism for looms	344,336	June 22	2227	573	35	1433
Woodward, Arthur T., New York, N. Y. Housing for electrical conductors	344,764	June 29	2805	726	35	1546
Woodward, Charles. (See Mettler, James I., assignor.)						
Woodward, Daniel C., West Randolph, Vt. Ironing-table	354,821	Dec. 21	1766	451	37	1332
Woodward, David B., Marshallton, Pa. Butter worker and mold	343,684	June 15	1336	334	35	1262
Woodward, Edwin, Stryker, Ohio. Turn-table for hay-carriers	350,855	Oct. 12	1071	286	37	202
Woodward, Edwin, Stryker, Ohio. Hay-carrier	352,075	Nov. 2	499	134	37	552
Woodward, Erastus. (See Weeks and Woodward.)						
Woodward, Erastus, Somerville, assignor to Pentucket Variable Stitch Sewing Machine Company, Haverhill, Mass. Sewing-machine	354,499	Dec. 14	1228	329 / 330	37	1237
Woodward, Erastus, Somerville, and G. W. Copeland, Malden, Mass. Tack-strip	333,709	Jan. 5	299	82	34	56
Woodward, Erastus, Somerville, and G. W. Copeland, Malden, assignors to I. M. Harmon, Boston, Mass. Tack-strip	336,539	Feb. 16	2073	545	34	823
Woodward, Henry, Shepherd's Bush, county of Middlesex, England. Battery and battery-plate	347,754	Aug. 17	1806	481	36	814
Woodward, Henry S., Philadelphia, Pa. Decorticating-machine	337,469	Mar. 9	821	207 / 208	34	1080
Woodward, James H., Seward, Nebr. Electric belt	338,683	Mar. 23	2447	645	34	1386
Woodward, John L., and R. Moutfort, Butler, Ga. Whiffletree	341,302	May 4	474	128	35	591
Woodward, Samuel S., Guide Rock, Nebr. Lamp-shade support	334,502	Jan. 19	1434	385	34	279
Woodward, Samuel S., Guide Rock, Nebr. Lamp-shade support	347,456	Aug. 17	1376	366	36	734
Woodward, Theodore B., Norway, Pa. Fire-escape	349,870	Sept. 28	1836	474	36	1413
Woodward, William D., assignor of two-thirds to A. L. Roberts and M. H. O'Brien, Plattsburg, N. Y. Car-coupling	347,547	Aug. 17	1502	398	36	758
Woodward, William M., Sumterville, assignor of two-thirds to J. H. Curry, Sumter County, and J. L. Carney, Marion County, Fla. Spring-motor	351,894	Nov. 2	232	66	37	501
Woodworth, Gilman P., Colfax, Iowa. Time-lock	348,087	Aug. 24	2292	614	36	912
Woodworth, Laurin D., Youngstown, Ohio. Fence-post	338,903	Mar. 30	2776	731	34	1451
Woolaston, Joseph H. (See Barnes and Woolaston.)						
Woolcocks, George O. (See Hogeboom and Woolcocks.)						
Wooldridge, Richard. (See Anderson, Lee, assignor.)						
Wooldridge, Robert A., East Lynne, Mo. Churn	339,243	Apr. 6	183	48	35	35
Wooley, Charles D., Walden, N. Y. Car-coupling	346,630	Aug. 3	232	64	36	505
Woolland, W. H., *et al.* (See Crandall, Henry B., assignor.)						
Woolley, Charles E., *et al.* (See Gage, James L., assignor.)						
Woolley, Edward J., Omaha, Nebr. Time-lock	345,266	July 6	646	164	36	117
Woolley, Jabez, Sr., Evansville, Ind. Coal-separator	349,675	Sept. 21	1540	397 / 398	36	1352
Woolley, Joseph, Rutland, Vt. Car for removing snow from railways, &c	349,024	Sept. 14	670	172	36	1173
Woolley, Leonidas G., Grand Rapids, Mich., assignor to H. H. McGaffey and C. Bradford, Indianapolis, Ind. Electric lamp	340,182	Apr. 20	1556	393	35	290
Woolley, Leonidas G., assignor to H. H. McGaffey and C. Bradford, Indianapolis, Ind. Steam dynamo-electric machine	341,303	May 4	474	128	35	591
Woolley, Leonidas G., assignor to H. H. McGaffey and C. Bradford, Indianapolis, Ind. Holder for incandescent electric lamps	341,620	May 11	905	241	35	682
Woolley, Leonidas G., assignor to H. H. McGaffey and C. Bradford, Indianapolis, Ind. Automatic steam-pressure regulator	342,161	May 18	1632	436	35	828
Woolley, Leonidas G., assignor to H. H. McGaffey and C. Bradford, Indianapolis, Ind. Cut-out for electric lamps	350,519	Oct. 12	589	163	37	114
Woolley, Leonidas G., assignor to H. H. McGaffey and C. Bradford, Indianapolis, Ind. Safety attachment for dynamo-electric machines	351,419	Oct. 26	1906	496	37	365
Woolner, Adolph, Jr. (See Andersen and Woolner.)						
Woolson, Orosco C., Newark, N. J., assignor to C. A. Cheever, trustee, New York, N. Y. Armature for electro-magnets	341,981	May 18	1384	369 / 370	35	781
Wooster, Frederick J., assignor of one-half to E. D. Steele, Waterbury, Conn. Machine for scouring and drying sheet metal	334,209	Jan. 12	1019	271	34	197
Wootten, John E., assignor to Wharton Railroad Switch Company, Philadelphia, Pa. Locomotive-boiler	348,942	Sept. 7	548	145	36	1147
Wootten, John E., assignor to Wharton Railroad Switch Company, Philadelphia, Pa. Locomotive-boiler	352,215	Nov. 9	725	194	37	599
Wootten, John E., assignor to Wharton Railroad Switch Company, Philadelphia, Pa. Locomotive-boiler	354,370	Dec. 14	1057	282	37	1207
Worcester Ferrule Company. (See Matthews, Ambrose T., assignor.)						
Worcester Wire Company. (See Gates, Edwin L., assignor.)						
Word, Arthur M., assignor to Towers & Sullivan Manufacturing Company, Rome, Ga. Harrow	352,284	Nov. 9	814	218	37	615
Worden, Christopher. (See Shay and Worden.)						
Worden, Edwin E., Somerville, and G. A. Grover, Boston, Mass., assignors to said Grover. Hand device for the shipper or hand-rope of elevators	344,557	June 29	2543	657	35	1497
World Type Writer Company. (See Becker, John, assignor.)						
Wormser, Leo, New York, N. Y. Combined cabinet and show-case	353,770	Dec. 7	162	45	37	1037
Worn, Frank, assignor to D. Fitzpatrick, Philadelphia, Pa. Pencil-sharpener	338,904	Mar. 30	2777	731	34	1452
Worrall, Harvey, Topeka, Kans. Music sheet and book supporter for pianos and organs	336,613	Feb. 23	2187	571	34	848
Worrall, James, Ordsall, Salford, county of Lancaster, England. Machine for dressing cut pile fabrics	341,787	May 11	1124	297	35	725

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Worrall Manufacturing Company. (See Worrall, Thomas D., assignor.)						
Worrall, Thomas D. Washington, D. C. Type-writing machine	335,669	Feb. 9	812	216, 217	34	593
Worrall, Thomas D., Washington, D. C. Type-writing machine	335,670	Feb. 9	815	217, 218	34	593
Worrall, Thomas D., Washington, D. C. Type-writing machine	336,278	Feb. 16	1720	449, 450	34	758
Worrall, Thomas D., Washington, D. C. Type or die for forming impressions in metal surfaces	339,609	Apr. 6	751	185	35	132
Worrall, Thomas D., Washington, D. C. Type-writing and matrix-making machine	339,724	Apr. 13	928	227, 228	35	169
Worrall, Thomas D., Washington, D. C., assignor to Worrall Manufacturing Company, Boston, Mass. Type-writing machine	334,503	Jan. 19	1435	386	34	279
Worrall, Thomas H., Meredith, N. H. Needle-cylinder for circular-knitting machines	348,088	Aug. 24	2293	615	36	913
Worrell, Stanley E., Hannibal, Mo. Road-engine	346,974	Aug. 10	677	180	36	598
Worswick, William H., San Francisco, Cal. Incubator	348,368	Aug. 31	2686	723	36	994
Wortendyke, David L., Midland Park, N. J. Paper-feeding device and cutter for printing-machines	348,506	Aug. 31	2889	777	36	1032
Worth, Albert B., Greenport, N. Y. Electric air-pump	337,803	Mar. 9	1229	319	34	1153
Worth, Albert B., Greenport, N. Y. Electric air-pump	337,804	Mar. 9	1231	320	34	1153
Worth, Albert B., Greenport, N. Y. Electric air-pump system	348,606	Sept. 7	102	29	36	1066
Wortham, Notley W., and J. I. J. Bell, Monroe, Ga. Animal-trap	352,598	Nov. 16	1212	329	37	700
Wortham, Notley W., and J. I. J. Bell, Monroe, Ga. Cotton thinner and cultivator	352,599	Nov. 16	1213	329	37	700
Worthen, George E. (See Rawson and Worthen.)						
Worthen, William B., *et al.* (See Townsend, Louis, assignor.)						
Worthington, Charles C., *et al.* (See Bicknell, William A. P., assignor.)						
Worthington, Charles C., *et al.* (See Jenkins, Frank W., assignor.)						
Worthington, Charles C., Irvington, N. Y. Steam-engine	341,534	May 11	779	209, 210	35	658
Worthington, Charles C., Irvington, N. Y. Direct-acting engine	342,669	May 25	2369	626, 627	35	969
Worthington, Charles C., Irvington, N. Y. Draining steam-jackets	345,469	July 13	935	236	36	174
Worthington, Charles C., Irvington, N. Y. Direct-acting engine	354,030	Dec. 7	552	150	37	1107
Worthington, Charles C., Irvington, N. Y. Direct-acting engine	354,524	Dec. 14	1269	339	37	1244
Worthmeyer, William F., Chicago, Ill. Movement-cure apparatus	340,333	Apr. 20	2052	527	35	3-1
Wostenholm, George, Jeffersonville, Ill., assignor of one-half to T. A. Meysenburg, St. Louis, Mo. Rolls for rolling fish-bars from old rails	347,310	Aug. 10	1159	310	36	686
Wrady, Panteleymon, St. Petersburg, Russia. Air-pump	340,928	Apr. 27	2596	684	35	484
Wray, Robert T., and J. Thomson, Kansas City, Mo. Machine for making roofing	351,557	Oct. 26	2103	546	37	404
Wren, Franklin E., Bloomfield, Ohio. Post-hole borer	341,982	May 18	1386	370	35	781
Wren, William C., Brooklyn, assignor to Consolidated Refrigerating Company, New York, N. Y. Process of and apparatus for distilling ammonia	342,722	May 25	2460	652	35	985
Wrench, Alfred. (See Gray and Kemp, assignors.)						
Wrenn, McDonald L. (See Whitehurst, Robert W., assignor.)						
Wrenshall, Charles C., St. Paul, Minn. Track-bolt	355,112	Dec. 28	2117	557	37	1421
Wright, A. (See Ober, Frank H., assignor.)						
Wright, Alexander L., *et al.* (See Killam, Robert C., assignor.)						
Wright, Allen J., Cleveland, Ohio. Float	340,534	Apr. 20	2053	528	35	381
Wright, Andrew J., Wrightsville, Ill. Hay-rack	355,241	Dec. 28	2310	608, 609	37	1460
Wright, Augustus W., Kyle, Tex. Combination-wrench	341,117	May 4	202	62	35	542
Wright Brothers & Co. (See Glenn, Edmund L., assignor.)						
Wright, Chaney G., Chicago, Ill. Telegraph-instrument	352,600	Nov. 16	1214	329	37	700
Wright, Charles E., Vicksburg, Miss. Cotton-harvester	339,725	Apr. 13	929	228	35	169
Wright, Charles E., Vicksburg, Miss. Cotton-harvester	349,776	Sept. 28	1714	442	36	1388
Wright, Cornelius W., Democracy, Ohio. Drag-saw	353,109	Nov. 23	1927	517	37	843
Wright, Edgar. (See Rivers and Wright.)						
Wright, Edmund, *et al.* (See Durand, Jean B., assignor.)						
Wright, Edmund, *et al.* (See Retornat, Ernest, assignor.)						
Wright, Edward P. (See Youmans, William W., assignor.)						
Wright, Elijah, assignor to Davis & Furber Machine Company, North Andover, Mass. Condenser for finisher-cards	340,929	Apr. 27	2597	684	35	484
Wright, Ellery C., assignor to J. W. Brooks, trustee, Campello, Mass. Last and support for the same	340,690	Apr. 27	2281	601	35	426
Wright, Frank L. (See Edmiston, Levi Q., assignor.)						
Wright, Frank M., Bristol, and W. M. Wood, Cheshire, assignors to Parker & Whipple Company, Meriden, Conn. Calendar-clock	349,025	Sept. 14	671	172	36	1174
Wright, Frederick K., and W. P. Hitchcock, Homer, N. Y. Take-up and let-off mechanism for looms for weaving wire, &c.	343,557	June 8	1149	290	35	1222
Wright, George A., Concordia, Kans. Electric belt for body wear	343,620	June 15	1247	313	35	1247
Wright, George W., Carterville, Mo. Plow	339,610	Apr. 6	752	186	35	132
Wright, Harrison, *et al.* (See Stevens, Charles V., assignor.)						
Wright, Henry, Sigourney, Iowa. Clothes-washer	336,369	Feb. 16	1849	485	34	782
Wright, James, Torrington, Conn. Scraping-tool	350,856	Oct. 12	1072	286	37	202
Wright, James R., Portland, Oreg. Vehicle-spring	338,905	Mar. 30	2778	732	34	1452
Wright, John B. (See Barnett, Americus M., assignor.)						
Wright, John E., Corydon, Iowa. Quilting-frame	345,267	July 6	647	164	36	117
Wright, Joseph, *et al.* (See Durand, Jean B., assignor.)						
Wright, Joseph, *et al.* (See Retornat, Ernest, assignor.)						
Wright, Joseph, Philadelphia, Pa. Umbrella for children's carriages	336,879	Feb. 23	2549	671	34	916
Wright, Lewis A., *et al.* (See Imler, Joseph, assignor.)						
Wright Machine Company. (See Carroll, Edgar J., E. H., and W. T., assignors.)						
Wright, Morris S. (See Carpenter and Wright.)						
Wright, Ransom C., Philadelphia, Pa. Locomotive	349,676	Sept. 21	1543	398	36	1352
Wright, Richmond L., Quasqueton, Iowa. Churn	342,770	May 25	2521	673	35	998
Wright, Samuel, Peoria, Ill. Step-ladder	341,535	May 11	788	210	35	659
Wright, Silas, Washington, N. J. Device for molding brick	333,710	Jan. 5	300	82	34	56
Wright, Thomas, Camden, N. Y. Grip for cars for cable railways	342,312	May 18	1852	490	35	867
Wright, Thomas, Camden, N. J. Snow sweeper and melter	343,353	June 8	864	217, 218	35	1171
Wright, Thomas, Jersey City, N. J. Platform for trucks	351,145	Oct. 19	1495	391	37	286
Wright, Thomas W. (See Perry and Wright.)						
Wright, W. Abram, Chipley, Ga., assignor of one-half to J. W. Lapsley, Shelby County, Ala., and J. B. Lapsley, Floyd County, Ga. Graduated ball-and-socket joint for surveyors' instruments	343,558	June 8	1151	290	35	1222

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Wright, W. E., *et al.* (See Brosnan, Cornelius J., assignor.)						
Wright, Wilbur F., Nashua, N. H. Nail-setting machine for boots and shoes	354,878	Dec. 21	1784	470	37	1347
Wright, William A. (See Jonas, Frank B., assignor.)						
Wright, William A., Centreton, N. J., assignor of one-half to J. M. Creighton and B. K. Jamison, Philadelphia, Pa. Cable-conduit	335,553	Feb. 2	647	169, 170	34	556
Wright, William A., Centreton, N. J., assignor to W. M. Stewart, trustee, Philadelphia, Pa. Coal-mining machine	344,610	June 29	2608	676	35	1511
Wright, William A., Centreton, N. J., assignor to W. M. Stewart, trustee, Philadelphia, Pa. Mining-machine	351,349	Oct. 19	1764	464	37	335
Wright, William D., Baltimore, Md. Weather-strip	344,798	June 29	2857	739	35	1557
Wright, William H. (See Fanyo and Wright.)						
Wright, William H. (See Sampson, Wright, and Kinsman.)						
Wright, William H., Buffalo, N. Y. Ball-bearing	342,891	June 1	163	42	35	1035
Wright, William H., Laconia, N. H. Stump-extractor	350,179	Oct. 5	117	33	37	25
Wright, William H., assignor of one-half to O. Crocker, Freeport, Ill. Nut-lock	341,983	May 18	1387	370	35	781
Wright, William L., Jersey City, N. J. Windlass for ferry-bridges	345,268	July 6	648	164	36	118
Wrightsman, Mina, Harper, Kans. Tree and post supporter	350,281	Oct. 5	247	72	37	51
Wrightson, Robert N. (See Wrightson, William and R. N.)						
Wrightson, William and R. N., Linwood, Pa. Knitting-machine	353,525	Nov. 30	2526	673, 674	37	963
Wrightson, William and R. N., Linwood, Pa. Knitted fabric	353,652	Nov. 30	2739	728	37	1000
Wrigley, Thomas, Paterson, N. J. Doubling-machine	345,656	July 13	1238	320	36	229
Wroe, James T., and T. R. Hall, Ellinwood, Kans. Car-coupling	346,975	Aug. 10	678	180	36	598
Wulff, Adolph, assignor of one-third to C. W. Buechner, St. Paul, Minn. Movable-slat rolling blind	344,799	June 29	2858	739, 740	35	1558
Wuensche, August O., Chicago, Ill. Safety device for elevators	337,355	Mar. 2	632	166	34	1043
Wuerpel, Morris, and H. P. Taussig, St. Louis, Mo. Railway-switch	348,089	Aug. 24	2295	615	36	913
Wulfert, Friedrich, St. Charles, Mo. Grain-screen	348,090	Aug. 24	2296	615	36	913
Wurster, Frederick W., Brooklyn, N. Y. Vehicle-spring coupling	350,282	Oct. 5	248	72	37	52
Wurzner, Joseph, assignor of two-thirds to H. Meinke and E. H. Bessa, Chicago, Ill. Composition for building purposes	339,726	Apr. 13	931	.....	35	170
Wüster, Johann H. (See Butcher and Wüster.)						
Wyant, Eli M. (See Wyant, John E. and E. M.)						
Wyant, John E. and E. M., Waterloo, Iowa. Curtain-fixture	335,789	Feb. 9	999	264	34	626
Wyatt, James, Pleasant View, Kans. Light-draft corn-planter	346,252	July 27	2073	531	36	308
Wyatt, Robert, New York, N. Y. Implement for sharpening tailor's chalk	355,242	Dec. 28	2311	609	37	1460
Wyatt, Robert, New York, N. Y. Implement for sharpening tailor's chalk	355,243	Dec. 28	2312	609	37	1461
Wyche, John L., Rush, Tex. Hand-support for use in writing	338,239	Mar. 16	1831	478	34	1272
Wyckoff, Arcalous, Elmira, N. Y. Railway-gate	335,790	Feb. 9	990	264	34	626
Wyckoff, Arcalous, Elmira, N. Y. Underground conduit	343,354	June 8	868	218	35	1172
Wyckoff, Arcalous, Elmira, N. Y. Bucket for chain-pumps	343,685	June 15	1338	334	35	1263
Wyckoff, W. O., *et al.* (See Hall, Alvin O., assignor.)						
Wyeth, Frank H., Philadelphia, Pa. Rubefacient medical remedy	350,405	Oct. 5	395	.....	37	79
Wyeth, Frank H., Philadelphia, Pa. Medicine-holder	350,406	Oct. 5	397	114	37	79
Wylie, Charlie B., Pittsburg, Pa. Double-acting pump	345,657	July 13	1239	321	36	229
Wyman, Charles O., Anoka, Minn. Boiler-feed regulator	354,078	Dec. 7	620	169	37	1119
Wyman, Charles P., Arlington, Mass. Making paper fabric	342,988	June 1	292	.....	35	1060
Wyman, Horace. (See Crompton and Wyman.)						
Wyman, Horace, Worcester, Mass. Vise	340,930	Apr. 27	2598	685	35	484
Wyman, Horace, Worcester, Mass. Machine for rolling spherical and cylindrical articles	350,905	Oct. 12	1140	303	37	215
Wyman, Horace, Worcester, Mass. Machine for rolling spherical and cylindrical articles	350,906	Oct. 12	1141	303	37	216
Wyman, Horace, assignor to G. Crompton, Worcester, Mass. Shedding mechanism for looms	336,683	Feb. 23	2292	599	34	868
Wyman, James, Jr. (See Gennet and Wyman.)						
Wyman, Richard H., Evanston, Ill. Railway-car	337,106	Mar. 2	296	78	34	981
Wynn, John C., Hunt County, Tex. Sorghum boiler and evaporator	336,279	Feb. 16	1724	450	34	758
Wynne, Frank, London, England. Multi-cylinder engine	341,984	May 18	1388	370, 371	35	782
Wynne, Frank, London, England. Multiple-cylinder engine	354,615	Dec. 21	1421	676, 677	37	1278
Wyttenbach, John, Rockport, Ind. Bifurcated pen-holder	336,540	Feb. 16	2074	545	34	823
Xevers, Zach F., San Francisco, Cal. Fly-catcher	351,727	Oct. 26	2350	611	37	449
Yacoubenco, Alexis, Kieff, Russia. Steam-boiler	340,183	Apr. 20	1557	394	35	290
Yaeger, Charles F. (See Smith and Yaeger.)						
Yagel, William H., Deer Lick, Ohio. Drag-saw	343,096	June 1	460	117	35	1090
Yager, Ollis L., Beard, Ky. Fence	353,243	Nov. 23	2111	565	37	880
Yaggy, Levi W., assignor to L. W. Yaggy and J. J. West, Chicago, Ill. Portfolio or case for anatomical charts	337,544	Mar. 9	914	234	34	1097
Yaggy, Levi W., assignor to L. W. Yaggy and J. J. West, proprietors, Chicago, Ill. Anatomical chart	340,270	Apr. 20	1686	430	35	313
Yagn, Nicholas St. Petersburg, Russia. Screw-propeller	333,805	Jan. 5	421	114, 115	34	79
Yale, Charles O., assignor of one-half to M. C. West, Rome, N. Y. Adjustable lamp-hanger	354,962	Dec. 28	1906	503	37	1382
Yale, Charles O., assignor of one-half to M. C. West, Rome, N. Y. Adjustable hanger	355,288	Dec. 28	2372	625	37	1472
Yale, Charles O., Rome, N. Y., G. F. W. Holman, and W. J. Barnette, U. S. Navy; said Holman assignor to said Barnette. Electrical note recording and indicating apparatus	338,009	Mar. 16	1528	396, 397	34	1213
Yale & Towne Manufacturing Company. (See Taylor, Warren H., assignor.)						
Yale & Towne Manufacturing Company. (See Towne, Henry R., assignor.)						
Yale & Towne Manufacturing Company. (See Weston, Thomas A., assignor.)						
Yarger, John A., New Hampton, Iowa. Roller-skate	333,583	Jan. 5	117	32	34	25
Yarger, John A., New Hampton, Iowa. Satchel-strap	353,526	Nov. 30	2528	674	37	963
Yarlot, Aaron, Ney, Ohio. Fence	341,119	May 4	204	62	35	543
Yarlot, Aaron J. and G. B. M., Ney, Ohio. Fence	341,120	May 4	205	62	35	543
Yarlot, George B. M. (See Yarlot, Aaron J. and G. B. M.)						
Yarlot, Scott, Ney, Ohio. Fence	341,118	May 4	203	62	35	542
Yarnall, Albin P., Eagle Station, Pa. Convertible chair	335,410	Feb. 2	453	117	34	522
Yarrington, Charles H., assignor to Cheshire Watch Company, Cheshire, Conn. Manufacture of watch-crowns	351,085	Oct. 19	1415	371	37	271
Yaryan, Homer T., Toledo, Ohio. Vacuum evaporating and distilling apparatus	355,289	Dec. 28	2373	626	37	1473
Yaryan, Homer T., Toledo, Ohio. Vacuum evaporating and distilling apparatus	355,290	Dec. 28	2376	626, 627	37	1473
Yates, Alvah P., Rockford, Ill. Vehicle-runner	341,304	May 4	475	128	35	591
Yates, Columbia L., Hammonton, N. J. Fruit-gatherer	351,824	Nov. 2	131	36	37	483
Yates, John W., Bourbon, Ind. Spout for tea-kettles	336,977	Mar. 2	125	34	34	948

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Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Yates Manufacturing Company. (See Bridgman and Challoner, assignors.)						
Yauger, Elam R., Kenton, Ohio. Bed-spring	350,180	Oct. 5	118	33	37	25
Yeakel, Abraham M., Perkasie, Pa. Stem winding and setting watch	350,407	Oct. 5	397	114	37	79
Yeiser, Frederick, Danville, Ky. Car-coupling	339,509	Apr. 6	573	137	35	105
Yeiser, Henry C., and C. Seybold, assignors to Globe Files Company, Cincinnati, Ohio. Paper-file	350,963	Oct. 19	1215	322	37	235
Yeiter, Fred. (See Growcox and Yeiter.)						
Yelland, Edwin M. (See Macleod, Malcolm, assignor.)						
Yelton, Jasper N., Catawba, Ky. Burglar-alarm	339,962	Apr. 13	1235	307	35	226
Yerrick, Allen, *et al.* (See Sears, Frank M., assignor.)						
Yingling, George S. (See Vannett, Jasper, assignor.)						
Yingling, Noah B. (See Wittmann and Yingling.)						
Yingst, Nathan, Reistville, Pa. Creamery	338,577	Mar. 23	2292	601	34	1300
Yocum, George W., B. (See Knapp, Edward Y., assignor.)						
York, Levi D., Portsmouth, Ohio. Machine for drawing metal bars	335,496	Feb. 2	565	148	34	542
Yost, George W. N., New York, N. Y., assignor to American Writing Machine Company, of New York. Type-writing machine	336,614	Feb. 23	2188	571	34	818
Yost, George W. N., assignor, by mesne assignments, to American Writing Machine Company, New York, N. Y. Type-writing machine	341,089	May 4	155	46, 47	35	533
Yost, George W. N., assignor, by mesne assignments, to American Writing Machine Company, New York, N. Y. Type-writing machine	343,655	June 15	1249	324	35	1254
Yost, Joseph L., Chicopee, Mass. Bicycle	334,325	Jan. 12	1186	319	34	228
Youart, Isabella, Troy, Ohio. Pastry-board	345,470	July 13	938	236	36	171
Youman, Orson, Walnut, Iowa. Hay-stacking derrick	347,755	Aug. 17	1807	481	36	814
Youmans, William W., assignor of one-half to E. P. Wright, Caldwell, Kans. Buckle	340,226	Oct. 5	183	53	37	38
Young, Addison M. (See Sands, Arthur J., assignor.)						
Young, Adelbert R. (See Greene and Young.)						
Young, Adelbert R., Jewett City, Conn., and V. T. Barber, New Bedford, Mass. Saddle for the top rolls of spinning-frames	347,910	Aug. 24	2038	539	36	865
Young, Charles. (See Ashbourne, Alexander P., assignor.)						
Young, Daniel C., Hanover, Kans. Educational device for the illustration of longitude and time. (Reissue)	10,683	Feb. 2	652	171	34	558
Young, David, Stockton, Cal. Grain-separator	341,121	May 4	206	63	35	513
Young, David, Stockton, Cal. Harvester	353,344	Nov. 30	2256	603	37	912
Young, David T., Davenport, Iowa. Hose-carriage	344,705	June 29	2724	708	35	1533
Young, Elizabeth M., Dansville, N. Y. Hand plaiting attachment	333,711	Jan. 5	301	83	34	56
Young, Frank D., *et al.* (See Sayre, Reuben H., assignor.)						
Young, Frank E., Canton, Ohio. Surgical chair	343,216	June 8	641	159, 160	35	1132
Young, Franklin E., Canton, Ohio. Surgical chair. (Reissue)	10,761	Aug. 24	2435	651	36	938
Young, George R., *et al.* (See Kienardt, John A., assignor.)						
Young, Horace A., Worcester, Mass. Wire-rod-reeling machine	353,046	Nov. 23	1838	494, 495, 496	37	825
Young, Horace A., Worcester, Mass. Wire-rod-reeling machine	353,047	Nov. 23	1842	497, 498	37	825
Young, Jackson B. (See Behel, Aquilla O., assignor.)						
Young, Jackson B. (See Shaffer, Charles H., assignor.)						
Young, Jackson B., Sioux Falls, Dak. Time-lock	346,010	July 20	1735	447, 448	36	324
Young, Jacob J., assignor to R. S. Kenyon and J. O. Roe, Rochester, N. Y. Gang-plow	337,107	Mar. 2	298	79	34	981
Young, James, deceased. (See Bailey, Marcellus, administrator.)						
Young, James D., Elgin, Tex. Rein-holder	336,462	Feb. 16	1978	518	34	805
Young, James P., assignor of one-half to J. B. Dallas, Philadelphia, Pa. Telephone-transmitter	345,658	July 13	1241	321	36	229
Young, James W., *et al.* (See Shaw, John H., assignor.)						
Young, John. (See Hall and Young.)						
Young, John. (See Scotchmer and Young.)						
Young, John, Newark, N. J. Dash-pot for steam-engines	337,644	Mar. 9	1033	265	34	1119
Young, John, Litchfield, Mich. Stock-rack	340,966	Apr. 27	2650	698	35	474
Young, John, Tiffin, Ohio. Hose-coupling and hydrant attachment	341,713	May 11	1034	274	35	708
Young, John W. (See O'Neil and Young.)						
Young, Joseph M., Bean's Station, Tenn. Wheel-plow	339,037	Mar. 30	2971	786	34	1486
Young, L. B. (See Conver, Peter, assignor.)						
Young, Leonard, Sing Sing, assignor to P. D. Tierney, Albany, N. Y. Machine for making brushes	340,184	Apr. 20	1561	394	35	291
Young, Louis F. (See Vaile, Charles A., assignor.)						
Young, Oliver B., assignor of one-half to W. T. Blenman, Detroit, Mich. Combined mail-bag-cord case and lock	352,502	Nov. 9	1085	292	37	669
Young, Parsalla H. (See Powell, Joseph M., assignor.)						
Young, Peter M., and W. H. Kincaid, Newark, N. J. Shutter-worker	341,201	May 4	317	90	35	563
Young, Robert W., assignor of one-half to J. A. Fleming, Chicago, Ill. Show-card sign	349,193	Sept. 14	900	231	36	1216
Young, Samuel S., *et al.* (See Shaw, John H., assignor.)						
Young, Simon C., *et al.* (See Penrod, John F., assignor.)						
Young, Tapley W., assignor of one-half to J. C. McGowan, Washington, D. C. Closure for cans and other vessels	340,650	Apr. 27	2227	584	35	418
Young, William. (See Cogswell, Young, and Haldeman.)						
Young, William A., assignor to H. Krauz and H. Aletter, Berlin, Ontario, Canada. Stretcher for felt boots, shoes, or stockings	333,910	Jan. 5	564	153	34	105
Young, William D. (See Acheson, William, assignor.)						
Young, William D., Pittsburg, assignor to C. L. Fitzhugh, Allegheny City, Pa. Knife for nail-cutting machines	355,113	Dec. 28	2118	557	37	1422
Young, William H., assignor of one-half to B. MacMackin, Wilmington, Del. Pipe-organ	346,450	July 27	2359	605	36	449
Young, William J., assignor, by mesne assignments, to W. J. Young and E. W. Sampson, Lynn, Mass. Heel-stiffener machine	350,907	Oct. 12	1143	303	37	216
Young, William L., St. Charles, Mo. Wire-rope drum-reel	348,943	Sept. 7	550	145	36	1148
Young-lood, Israel E. (See Bancroft, Major A., assignor.)						
Younger, Alexander, Cleveland, Ohio. Smoke-consuming furnace	350,335	Oct 5	315	90	37	64
Youngs, Fred E., Allegheny, Pa. Manufacture of pipe-fittings	354,879	Dec. 21	1785	470	37	1347
Yount, Solomon. (See Yount, William H. H. and S.)						
Yount, William H. H. and S., Troy, Ohio. Fence-post	349,245	Sept. 14	974	249	36	1231
Yule, George, Newark, N. J. Rubber tube for hatters' irons	338,815	Mar. 30	2645	697	34	1428
Yule, George, Newark, N. J. Hat-ventilating punch	340,406	Apr. 20	1672	481	35	349
Yule, George, Newark, N. J. Hat-brim heater	344,800	June 29	2860	740	35	1558

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Yunck, Frederick. (See Freeman, Edward F., assignor.)						
Zacharie, Issachar, London, county of Middlesex, England, assignor to S. P. Zacharie, New York, N. Y. Orthopedical appliance	353,910	Dec. 7	377	100	37	1076
Zacharie, Samuel P. (See Zacharia, Issachar, assignor.)						
Zachos, John C., New York, N. Y. Type-writer for stenographic purposes	334,630	Jan. 19	1609	429	34	311
Zadek, Charles W. A., Bartow-on-the-Sound, N. Y. Explosive compound	335,006	Jan. 26	2101	.....	34	410
Zachringer, William, New Orleans, La. Billiard-chalk holder	334,099	Jan. 12	844	231	34	164
Zahn, George, Newark, N. J. Harness-rosette	339,510	Apr. 6	574	137	35	105
Zahn, J. Adam, New York, N. Y. Wagon-jack	349,194	Sept. 14	904	231	36	1217
Zalinski, Edmund L., U. S. Army. Electric shell-fuse	341,536	May 11	790	210	35	660
Zalinski, Edmund L., U. S. Army. Firing torpedoes by electricity	341,537	May 11	792	211	35	660
Zaller, Louis, New York, N. Y. Machine for carding horse-hair	342,945	June 1	215	63	35	1050
Zanetti, Fortonato C., Bryan, Tex. Medicine-case	341,621	May 11	906	241	35	682
Zanetti, Fortonato C., Bryan, Tex. Carriage-top	352,025	Nov. 2	428	116	37	538
Zanger, Theodor, assignor to J. B. Sweet & Son, Buffalo, N. Y. Support for carriage-tops	341,090	May 4	157	47	35	534
Zanger, Theodor, assignor to W. E. King and C. D. Whittet, Buffalo, N. Y. Velocipede	352,503	Nov. 9	1086	292	37	669
Zeck, John, assignor of one-half to W. Blount, Canby, Oreg. Running-gear for vehicles	351,350	Oct. 19	1765	464	37	335
Zeese & Co., Alexander. (See Letz, Charles M., assignor.)						
Zehner, William, and M. A. Eisenhour, Plymouth, Ind. Cultivator-bar and cultivator-clip	347,756	Aug. 17	1808	482	36	815
Zehring, Jacob D., and H. Z. Jones, Codorus, Pa. Invalid-bedstead	333,712	Jan. 5	302	83	34	56
Zeigler, Charles W. (See Gerrard, Edward A., assignor.)						
Zeigler, Daniel, assignor of one-half to C. A. Zerbe, Lewistown, Pa. Car-coupling	346,881	Aug. 3	545	148	36	566
Zeigler, Daniel, assignor of one-half to C. A. Zerbe, Lewistown, Pa. Car-coupling	346,882	Aug. 3	546	148	36	566
Zeigler, Daniel G., and R. Copes, Orangeburg, S. C. Vehicle-thill	338,129	Mar. 16	1657	439	34	1244
Zeigler, Daniel G., and R. Copes, Orangeburg, S. C. Hoeing-machine	338,130	Mar. 16	1687	439	34	1244
Zeigler, George W., Washington, D. C. Portable swing or cradle	340,407	Apr. 20	1875	482	35	349
Zell, Robert R., Essex, N. J., assignor, by mesne assignments, to Safety Steam Generator Company, New York, N. Y. Sectional steam-boiler. (Reissue)	10,695	Mar. 2	636	167	34	1044
Zeller, J. J. A. (See Phelps and Swift, assignors.)						
Zeller, John P., South Bend, Ind. Plow	346,081	July 20	1825	471	36	341
Zeller, Melancthon E., Bluffton, Ohio. Buckle	343,097	June 1	461	117	35	1090
Zeller, Melancthon E., assignor of one-half to A. J. St. John, Bluffton, Ohio. Harness-saddle	337,645	Mar. 9	1036	266	34	1119
Zeller, Melancthon E., assignor of one-half to A. J. St. John, Bluffton, Ohio. Buckle	338,240	Mar. 16	1832	478	34	1273
Zellers, Theodor A., assignor to Ottawa Glass Company, Ottawa, Ill. Flatting and annealing oven for glass	342,670	May 25	2373	627, 628	35	969
Zelly, John, Cincinnati, Ohio. Stem winding and setting mechanism for clocks and regulators	342,415	May 25	2017	532	35	904
Zeltmacher, George E., Brooklyn, N. Y. Belt-clasp	343,415	June 8	957	239	35	1188
Zemann, Anton, Vienna, Austria-Hungary, assignor of one-half to W. Putzker, Olbernhau, Saxony, Germany. Rose-engine	334,210	Jan. 12	1020	272	34	197
Zerbe, Charles A. (See Miller, John H., assignor.)						
Zerbe, Charles A. (See Zeigler, Daniel, assignor.)						
Zerby, Jacob (See Diffenderfer and Zerby.)						
Zerffi, Henry C., London, England. Ventilating hats	354,004	Dec. 7	515	139	37	1100
Zerr, Francis. (See Zerr, John, J., and F.)						
Zerr, John, J., and F., Keokuk, Iowa. Boiler-furnace	336,370	Feb. 16	1850	485	34	783
Zerr, Joseph. (See Zerr, John, J., and F.)						
Zevely, Van Neimen, near Elgin, Tex. Rein-holder	343,098	June 1	462	118	35	1090
Zidek, Josef. (See Petru and Zidek.)						
Ziegel, Peter, Nashville, Ill. Mainspring-winder for watch-makers	349,291	Sept. 14	1022	261	36	1241
Zieger, William, Jenkintown, Pa., assignor to Williams Tension Wheel Company, Newark, N. J. Wheel	339,611	Apr. 6	754	186	35	132
Ziegle, Louis E., assignor to J. Van Range Company, Cincinnati, Ohio. Catch for oven-doors	334,728	Jan. 19	1743	465	34	337
Ziegler, William F., Longswamp, Pa. Fruit-picker	338,010	Mar. 16	1531	397	34	1214
Zies, Charles, Baltimore, Md. Meat-cutter	335,730	Feb. 9	907	239	34	610
Zilles, Philip J., *et al.* (See Greene, John W. and A. H., assignors.)						
Zillessen, Ernst, Crefeld, Prussia, Germany. Machine for dyeing yarn	345,269	July 6	649	165	36	118
Zimmer, C. (See Kissell, Albert, assignor.) (Reissue.)						
Zimmer, Chrysostom, Rochester, N. Y. Abdominal trusses	337,290	Mar. 2	551	145	34	1028
Zimmer, Eugene, Mobile, Ala. Plant-protector	346,253	July 27	2074	533	36	398
Zimmerling, Charles, Philadelphia, Pa. Compound for scrubbing paint, floors, &c	348,179	Aug. 24	2428	.....	36	937
Zimmerman, Arnold W., assignor of two-thirds to G. H. Reynolds and N. S. Gilbert, Fernwood, Ill. Saw-set	340,967	Apr. 27	2652	698	35	494
Zimmerman, Casper, Tomah, Wis. Apparatus for mining and amalgamating gold	351,728	Oct. 26	2350	611, 612	37	449
Zimmerman, Charles A., *et al.* (See Knowles, Mortimer L., assignor.)						
Zimmerman, Charles P., assignor of one-half to I. P. Brown, Jr., Newark, N. J. Air-heating-furnace radiator	350,452	Oct. 5	484	136	37	93
Zimmerman, Frank T., Auburn, Ind. Windmill-regulator	333,806	Jan. 5	423	115	34	79
Zimmerman, Fred G. (See Zimmerman, William and F. G.)						
Zimmerman, Jesse V., Little Rock, Ark. Ruby-pin setter and remover	347,858	Aug. 24	1958	520	36	852
Zimmerman, Jesse V., Little Rock, Ark. Watch and clock oiler	349,677	Sept. 21	1544	398	36	1352
Zimmerman, John C. (See Butler, John R., assignor.)						
Zimmerman, John C., Elmira, N. Y. Seat for tricycles	352,076	Nov. 2	500	135	37	553
Zimmerman, Lemman S. (See Bennett, Franklin, assignor.)						
Zimmerman, Reinhold, Canton, Ohio. Clothes-wringer	344,337	June 22	2228	574	35	1434
Zimmerman, W. Orville. (See Otto and Zimmerman.)						
Zimmerman, William, Chicago, Ill., and F. G. Zimmerman, Buffalo, N. Y. Tree and plant setting machine	342,490	May 25	2119	559, 560, 561	35	923
Zimmermann, Charles E., Syracuse, N. Y. Marking-gage	349,530	Sept. 21	1067	274	36	1258
Zimmermann, Emil, New York, N. Y. Work-support for lathes	340,535	Apr. 20	2054	528	35	382
Zimmermann, Friedrich H. (See Raabe and Zimmermann.)						
Zimmermann, George. (See Wilson and Zimmermann.)						
Zimmermann, Henry, Detroit, Mich. Device for branding kegs	338,578	Mar. 23	2293	601	34	1360
Zipernowsky, Karl, Buda-Pesth, M. Déri, Vienna, and O. T. Bláthy, Buda-Pesth, Austria-Hungary. Induction-coil	352,105	Nov. 2	546	144	37	560
Zistel, Oscar, Sandusky, Ohio. Lawn-mower	347,311	Aug. 10	1160	310	36	687
Zitko, Charles, St. Louis, Mo. Rain-water cut-off	337,805	Mar. 9	1232	320	34	1153

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Zitzman, Edward H. (See Brill and Zitzman.)						
Zöller, Edmund, Indianapolis, Ind. Cuff button and holder	353,394	Nov. 30	2333	623	37	927
Zöller, Edmund, and J. T. Gardner, Indianapolis, Ind.; said Zöller assignor to said Gardner. Hinged-shoe button	347,410	Aug. 17	1305	348	36	722
Zopf, Henri, Monroe, Wis. Stove-pipe elbow	341,985	May 18	1390	371	35	782
Zschiesche, Friedrich A., Cottbus, Germany. Ironing-machine	339,250	Apr. 6	199	50, 51	35	37
Zschiegner, Friedrich, Hoboken, N. J., assignor of one-third to G. Amberg, New York, N. Y. Propelling attachment for boats	336,684	Feb. 23	2293	599, 600	34	868
Zuber, Jacob. (See Kohn, Ignaz, assignor.)						
Zuck, Alvin L., Kenton, Ohio. Wrench for twisting wires	354,079	Dec. 7	620	170	37	1119
Zumpe, Adolph, Berlin, Germany. Memorandum-calendar and stand	337,470	Mar. 9	823	208	34	1080
Zumsteg, Heinrich, assignor to A. Karrer, Kulm, Aargau, Switzerland. Music-box	335,244	Dec. 28	2314	609	37	1461
Zwietusch, Otto, Milwaukee, Wis. Bottle-stopper	336,463	Feb. 16	1979	518	34	805
Zwietusch, Otto, Milwaukee, Wis. Filling-cylinder	342,771	May 25	2522	674	35	998
Zwoyer, Ellsworth B. A., assignor of one-half to G. W. Auge, Reading, Pa. Liquid-cooler	338,906	Mar. 30	2779	732	34	1452

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Name, residence, and design.	No.	Date.	Official Gazette. Volume.	Official Gazette. Page.
Adams, Peter. (See Shepard and Adams.)				
Adler, Samuel C., Philadelphia, Pa. Soap	16,928	Oct. 12	37	103
Alexander, James H., assignor to T. Devlin & Co., Philadelphia, Pa. Trunk-iron	16,505	Feb. 9	34	563
Alexander, James H., assignor to T. Devlin & Co., Philadelphia, Pa. Trunk-iron	16,567	Mar. 16	34	1162
Alexander, James H., assignor to T. Devlin & Co., Philadelphia, Pa. Stove-plate lifter	16,598	Apr. 6	35	2
Alexander, James H., assignor to T. Devlin & Co., Philadelphia, Pa. Tureen-handle	16,630	Apr. 20	35	259
Allen, Charles W., Deer Park, Ontario, Canada. Stove	16,937	Oct. 12	37	103
American Novelty Shoe Company. (See Buchanan, Charles H., assignor.)				
Andrews & Co., A. H. (See Parker, Henry F., assignor.)				
Angell, Edwin E., Malden, Mass. Sewing-machine arm	16,862	Aug. 24	36	823
Arnold, John T., Hicksville, Ohio. Wash-board	16,537	Feb. 23	34	830
Ashuelot Can Company. (See Bowker, Leo E. and D. F., assignors.)				
Atterbury, Thomas B., Pittsburg, Pa. Tureen or dish	16,558	Mar. 9	34	1050
Bach, Frederick W., New Bond Street, county of Middlesex, England. Lamp-shade	16,903	Sept. 21	36	1250
Bach, Frederick W., New Bond Street, county of Middlesex, England. Lamp-shade	16,911	Sept. 28	36	1360
Backus, Quimby S., Winchendon, Mass. Fire-place back	16,489	Jan. 26	34	344
Bacon, Murray, assignor to Novelty Electric Company, Philadelphia, Pa. Frame for telegraph-instruments	16,803	July 20	36	236
Baker, William C., New York, N. Y. Heater-base	16,804	July 20	36	236
Bakewell, Thomas, Sewickley, Pa. Ax	16,631	Apr. 20	35	259
Ball, James P., Philadelphia, Pa., assignor to Keystone Safety Nut Lock Company. Book-mark	16,896	Sept. 14	36	1154
Baltteim, Paul J., Jersey City, N. J., assignor to J. Schwartz & Co., New York, N. Y. Perfumery-case	16,923	Oct. 5	37	2
Banghart, Andrew B. (See Treat and Banghart.)				
Banning, Walter E., Syracuse, N. Y. Branding or marking tool	16,657	Apr. 27	35	389
Bapst, Germain, and L. Falize, Paris, France. Watch-case	17,012	Dec. 7	37	1006
Barkentin, George S., New Haven, assignor to P. & F. Corbin, New Britain, Conn. Ornamentation of hardware	16,656	Apr. 27	35	389
Barkentin, George S., New Haven, assignor to P. & F. Corbin, New Britain, Conn. Bracket	16,947	Oct. 26	37	342
Barnett, Flora, New York, N. Y. Covering for toilet-bottles	17,003	Nov. 30	37	896
Barnhart, Alson E., *et al.* (See Barnhart, Warren, assignor.)				
Barnhart, Alson E., *et al.* (See Guildenstine, Julius, assignor.)				
Barnhart, Alson E., *et al.* (See Heyer, Charles E., assignor.)				
Barnhart, Alson E., *et al.* (See Jackson, William W., assignor.)				
Barnhart, Alson E., *et al.* (See Lauschke, Ernst, assignor.)				
Barnhart, Arthur M., *et al.* (See Barnhart, Warren, assignor.)				
Barnhart, Arthur M., *et al.* (See Guildenstine, Julius, assignor.)				
Barnhart, Arthur M., *et al.* (See Heyer, Charles E., assignor.)				
Barnhart, Arthur M., *et al.* (See Jackson, William W., assignor.)				
Barnhart, Arthur M., *et al.* (See Lauschke, Ernst, assignor.)				
Barnhart, Warren, assignor to A. M. and A. E. Barnhart, Chicago, Ill. Printing-type	16,490	Jan. 26	34	344
Bast, Nicklas. (See Huttig and Bast.)				
Baum, William, New Haven, Conn., assignor to New Jersey Car Spring and Rubber Company, Jersey City, N. J. Rubber sole	16,904	Sept. 21	36	1250
Baumgarten, Joseph, assignor to Manhattan Wall Paper Company, New York, N. Y. Wall-paper	16,454	Jan. 12	34	134
Baxter, Isaac J., Peekskill, N. Y., Sink-leg	16,650	Apr. 20	35	259
Baxin & Sargent. (See Zacharie, Elly, assignor.)				
Bellaire Goblet Company. (See Blackburn, Melvin L., assignor.)				
Berger, William H., Philadelphia, Pa. Handle	16,948	Oct. 26	37	342
Bergstrom Brothers & Co. (See Bergstrom, George O., assignor.)				
Bergstrom, George O., assignor to Bergstrom Brothers & Co., Neenah, Wis. Stove	17,036 / 17,037	Dec. 28	37	1360
Berry, Henry, Huntington, Conn. Pitcher, &c	16,538	Feb. 23	34	830
Bevan, Joseph, Newark, N. J. Saddle-tree	16,976 / 16,977	Nov. 9	37	570
Bidwell, George W., New Haven, Conn. Clock-dial	16,733	June 15	35	1231
Bidwell, Julius A., Ivanpah, Cal. Scarf-pin	16,589	Mar. 30	34	1394
Birnbaum, Bonheim, New York, N. Y. Window-shade	16,853 to 16,855	Aug. 17	36	696
Bishop, Louis C., East New York, N. Y. Trail-piece for toy cannon	16,856	Aug. 17	36	696
Black & Germer. (See Germer and Moulton, assignors.)				
Blackburn, Melvin L., assignor to Bellaire Goblet Company, Bellaire, Ohio. Dish or table-ware	16,941	Oct. 19	37	221
Boesen, James P., Hoboken, N. J. Gimp	16,552	Mar. 2	34	926
Bowker, Daniel F. (See Bowker, Leo E. and D. F.)				
Bowker, Leo E. and D. F., assignors to Ashuelot Can Company, Winchester, N. H. Head for oil-cans	17,038	Dec. 28	37	1360
Boylston, Samuel F., Newark, N. J. Gear for children's carriages	16,539	Feb. 23	34	830
Bradley, Charles H., Pittsburg, Pa. Heating-stove	16,519	Feb. 16	34	704
Bradley, Daniel R., New York, N. Y. Perfumery-bottle	16,512	Feb. 9	34	563
Bradley & Hubbard Manufacturing Company. (See Seidensticker, F. Robert, assignor.)				
Brehmer, Henry, Stapleton, assignor to D. W. Bruce, New York, N. Y. Type	16,599 / 16,600	Apr. 6	35	2
Briggs, Orlando P., Chicago, Ill. Water spout or conductor	16,877	Aug. 31	36	944
Brittin, Frederick W., assignor to Silver Plate Cutlery Company, Birmingham, Conn. Fruit or table knife	16,721	June 8	35	1116
Brittin, Frederick W., assignor to Silver Plate Cutlery Company, Birmingham, Conn. Button-hook	16,766	July 6	36	2
Bromley & Sons, John. (See Finck, Henry, assignor.)				
Bromley & Sons, John. (See Pegel, Julius, assignor.)				
Bromley & Sons, John. (See Petzold, Adolph, assignor.)				
Bronson, George W., Amsterdam, N. Y. Whisk-broom holder	17,025	Dec. 21	37	1252

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Brooke, Isaac, *et al.* (See Calely, Edward L., assignor.)				
Brown, George, Washington, D. C. Table-fountain	16,451	Jan. 5	34	2
Brown, Wilbur F., New York, N. Y. Comb or brush box	16,765	July 6	36	2
Bruce, David W. (See Brehmer, Henry, assignor.)				
Bruce, David W. (See Halm, George, assignor.)				
Bruce, David W. (See Ruthven, Edwin C., assignor.)				
Bruce, Wallace, Poughkeepsie, N. Y. Panorama or map case	16,540	Feb. 23	34	830
Bryden Forged Horse-Shoe Works. (See Frederick, Tilghman F., assignor.)				
Buchanan, Charles H., Philadelphia, Pa. Belt	16,495	Feb. 2	34	440
Buchanan, Charles H., assignor to American Novelty Shoe Company, Philadelphia, Pa. Traveling-bag, &c	16,608	Apr. 13	35	139
Buchanan, Charles H., assignor to American Novelty Shoe Company, Philadelphia, Pa. Shoe	16,609	Apr. 13	35	139
Buermann, August. (See Gilham, Frank M., assignor.)				
Buermann, August, Newark, N. J. Pattern for spurs	16,767	July 6	36	2
Bullard, Charles E., Worcester, Mass. Border for cards, &c	16,824	Aug. 3	36	460
Bullard, Charles E., Worcester, Mass. Card	16,905	Sept. 21	36	1250
Bunker, William I., *et al.* (See Kenna, Joseph W., assignor.)				
Bunker, William I., Chicago, Ill. Bracket	16,541	Feb. 23	34	830
Bunting, William, Jr., Boston, Mass., assignor to Meyer-Sniffen Company, (limited,) New York, N. Y. Wash-basin slab	16,949	Oct. 26	37	342
Burkhardt, John, New York, N. Y. Fire-grate	17,019	Dec. 7	37	1006
Burnell, John C., Cincinnati, Ohio, and J. Meyer, Covington, Ky. Sign	16,734	June 15	35	1231
Burnell, John C., Cincinnati, Ohio, and J. Meyer, Covington, Ky. Sign	16,743	June 22	35	1341
Burr, Sanford S., Winnetka, Ill. Folding-bed frame	16,707	May 25	35	878
Calely, Edward L., Philadelphia, assignor to G. W. Floyd, I. I. Wells, I. Brooke, C. W. and W. Wagner, I. Hallman, and D. Finkbiner, Royer's Ford, Pa. Chamber-casing for stoves	16,815	July 20	36	236
Camp, Walter C., New York, N. Y., assignor to New Haven Clock Company, New Haven, Conn. Clock-case	16,912	Sept. 28	36	1360
Camp, Walter C., New York, N. Y., assignor to New Haven Clock Company, New Haven, Conn. Clock-case and calendar	16,938	Oct. 12	37	103
Campbell, Jones & Co. (See Walter, William G., assignor.)				
Capitain, William F., assignor to Marder, Luse & Co., Chicago, Ill. Type	16,878	Aug. 31	36	944
Capitain, William F., assignor to Marder, Luse & Co., Chicago, Ill. Font of type	17,004	Nov. 30	37	896
Capitain, William F., assignor to Marder, Luse & Co., Chicago, Ill. Font of printing-type	17,013	Dec. 7	37	1006
Carlisle, Robert, assignor to T. Gibson Company, Cincinnati, Ohio. Water-closet bowl and base	16,841	Aug. 10	36	574
Carr, Martin W., Somerville, Mass. Vase	16,542	Feb. 23	34	830
Carter, John V. B., assignor to Co-operative Foundry Company, Rochester, N. Y. Heating-stove	16,805	July 20	36	236
Casper, Charles, Meriden, Conn. Handle for spoons, &c	16,506	Feb. 9	34	563
Casper, Charles, Meriden, Conn., assignor to Meriden Silver Plate Company. Clock-case	16,559	Mar. 9	34	1050
Chetwynd, Elijah. (See Laughlin and Chetwynd.)				
Child, Frederick W., Greenwich, Conn. Badge	16,670	May 4	35	503
Christensen, Rodolphe, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Hinge	16,906	Sept. 21	36	1250
Clark & Co., T. B. (See Wood, Walter A., assignor.)				
Clarke, Samuel, Childs Hill, county of Middlesex, England. Lamp-holder	16,950	Oct. 26	37	342
Cleveland Malleable Iron Company. (See Simpson, John, assignor.)				
Co-Operative Foundry Company. (See Carter, John V. B., assignor.)				
Conner, James M., New York, N. Y. Type	16,669	May 4	35	503
Conner, James M., New York, N. Y. Type	16,680	May 11	35	631
Connolly, Patrick, Brooklyn, N. Y. Bracket	16,744	June 22	35	1341
Corbin, P. & F. (See Barkentin, George S., assignor.)				
Cosman, William H. (See Lukanitsch and Cosman.)				
Corson, Samuel S., Chicago, Ill. Shirt	16,898	Sept. 14	36	1154
Cowen, Robert, Cambridgeport, Mass. Rubber sole	16,757	June 29	35	1440
Cox, Arthur W., Ballard Vale, Mass. Knife-handle	16,781	July 6	36	2
Cox, Arthur W., Ballard Vale, Mass. Knife-handle	16,785	July 13	36	124
Cox Stove Company, Abram. (See Mott, Abram C., assignor.)				
Cox Stove Company, Abram. (See Mott and McLaughlin, assignors.)				
Craighead & Kintz Manufacturing Company. (See Hardy, Emile, assignor.)				
Crampton, Harry L., assignor to Goodyears Metallic Rubber Shoe Company, Naugatuck, Conn. Overshoe	16,455	Jan. 12	34	134
Crossman, Charles S., New York, N. Y. Badge	16,513	Feb. 9	34	563
Crouch, George, New York, N. Y. Trunk-lid lifter	16,879	Aug. 31	36	944
Currier, Edward M., assignor to J. M. Read, Everett, Mass. Handle for pokers or like implements	16,786	July 13	36	124
Currey, Caleb M., Bay City, Mich. Case for sewing-machine fixtures	16,735	June 15	35	1231
Danville Stove and Manufacturing Company. (See Smith, Hurley G., assignor.)				
Dattelbaum, William, New York, N. Y. Setting for finger-rings	16,722	June 8	35	1116
Davids Company, Thaddeus. (See Davids, David F., assignor.)				
Davids, David F., assignor to T. Davids Company, New York, N. Y. Bottle	16,520	Feb. 16	34	704
Davis, Thomas, Trenton, N. J. Dish	16,708	May 25	35	878
Davis, William. (See Espinosa, Jose M., assignor.)				
Davis, William, San Francisco, Cal. Bridle-bit	16,758	June 29	35	1440
Davison, Joseph K., Philadelphia, Pa. Badge	16,671 / 16,672	May 4	35	503
Davison, Joseph K., Philadelphia, Pa. Badge	16,745	June 22	35	1342
Davison, Joseph K., Philadelphia, Pa. Badge	16,913	Sept. 28	36	1360
Devlin & Co., Thomas. (See Alexander, James H., assignor.)				
Dey, Charles E., Denver, Colo. Indicator-cover	16,590	Mar. 30	34	1394
Dorflinger & Sons, C. (See O'Connor, John S., assignor.)				
Dilworth, William H., Hoboken, N. J. Fruit-jar	16,817	July 27	36	350
Donahue, Benjamin S., Brooklyn, N. Y. Picture or looking-glass frame	16,965	Nov. 2	37	458
Dreyfus, Bernhard, New York, N. Y. Curtain-loop	16,543	Feb. 23	34	830
Dreyfus, Bernhard, New York, N. Y. Chenille pendant	16,601	Apr. 6	35	2
Dreyfuss, Bernard, New York, N. Y. Bust	16,632	Apr. 20	35	259
Drucklieb, Carl, New York, N. Y. Ice-cream mold	16,840	Aug. 3	36	400
Dryfoos, L. (See Hildt, August, assignor.)				
Dryfoos & Co., L. (See Hildt, August, assignor.)				
Duncan & Sons, George. (See Lang, August, assignor.)				
Duncan & Sons, George. (See Miller, John E., assignor.)				
Dutemple, William R., Providence, R. I. Advertising-card for scarf-pins	16,787	July 13	36	124
Dwight, Alfred, Agawam, Mass. Printer's bodkin	16,880	Aug. 31	36	944
Dwight, Alfred, Agawam, Mass. Type-case	16,881	Aug. 31	36	944

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Dwyer, James W., St. Louis, Mo. Cooking-stove	16,929 to 16,931	Oct. 12	37	103
Elges, Gottlieb D., Clinton, Mo. Cigar	16,951	Oct. 26	37	342
Elleau, Henry, San Francisco, Cal. Badge	16,544	Feb. 23	34	830
Ennis & Co., George W. (See Hemming, Richard P., assignor.)				
Ernewein, John, Buffalo, N. Y. Table	16,723	June 8	35	1116
Espinosa, Jose M., assignor to W. Davis, San Francisco, Cal. Check or side piece for bridle-bits	16,521	Feb. 16	34	704
Estes, Webster C., Brooklyn, N. Y. Box	16,578	Mar. 23	34	1280
Estey Organ Company. (See Fuller, Levi K., assignor.)				
Faessler, Jacob, *et al.* (See Hall, Charles M., assignor.)				
Falize, Lucien. (See Rapst and Falize.)				
Fancher, Alvin D. (See McElroy and Fancher.)				
Farrel, John, New York, N. Y. Safe	16,806	July 20	36	236
Feigly, David, Medway, Ohio. Shovel for potato diggers	16,464	Jan. 12	34	134
Finck, Henry, New York, N. Y., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	16,496	Feb. 2	34	440
Finck, Henry, New York, N. Y., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	16,545	Feb. 23	34	830
Finkbiner, David, *et al.* (See Calely, Edward L., assignor.)				
Fisher, Elwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	16,470 to 16,476	Jan. 19	34	254
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	16,825 to 16,829	Aug. 3	36	460
Fisk, Clark & Flagg. (See Heath, Henry, assignor.)				
Fisk, Clark & Flagg. (See Tappan, J. Sewell, assignor.)				
Fitch, W. & E. T. (See Hubbard, George M., assignor.)				
Fitchburg Worsted Company. (See Phillips, James, Jr., assignor.)				
Flanagen, James L., Philadelphia, Pa. Ornamentation of buckets	16,477	Jan. 19	34	254
Fleisch, Jacob H., New York, N. Y. Necktie	17,039	Dec. 28	37	1360
Flinn, James H., Schenectady, N. Y. Whisk-broom holder	16,978	Nov. 9	37	570
Floyd, George W., *et al.* (See Calely, Edward L., assignor.)				
Fogelstrand, Otto F., assignor to Textile Manufacturing Company, Westfield, Mass. Ear for casket-handles	16,465	Jan. 12	34	134
Folsom & Son, A. (See Hutchison, James, assignor.)				
Fraser, Alexander, New Glasgow, Nova Scotia, Canada. Pen-protector	16,491	Jan. 26	34	344
Fraser, Henry M., assignor to Royer Wheel Company, Cincinnati, Ohio. Hub-band	16,602	Apr. 6	35	2
Frazer, Fred, Syracuse, N. Y. Hame-top	17,026	Dec. 21	37	1252
Frederick, Tilghman F., assignor to Bryden Forged Horse-Shoe Works, (limited,) Catasauqua, Pa. Horseshoe	16,914	Sept. 28	36	1360
Frenzel, Franz, New York, N. Y. Embossed leather	16,807	July 20	36	236
Fritz, George J., St. Louis, Mo. Frame for ironing-machines	16,788	July 13	36	124
Fry, George W., Beaver, assignor to Rochester Tumbler Company, Pittsburg, Pa. Table-vessel	16,546	Feb. 23	34	830
Fuller, Abigail R., Chicago, Ill. Rosette	16,887	Sept. 7	36	1048
Fuller, Levi K., assignor to Estey Organ Company, Brattleborough, Vt. Organ-case	16,497 to 16,498	Feb. 2	34	440
Fuller & Warren Company. (See Wolfe and Lisewski, assignors.)				
Gager, Oliver A. (See Gérard, Emile, assignor.)				
Garbutt, Andrew. (See Magee and Garbutt.)				
Gérard, Emile, Limoges, France, assignor to O. A. Gager, Brooklyn, N. Y. Dish	16,633	Apr. 20	35	259
Germantown Tool Works. (See Selsor, James E., assignor.)				
Gerner, Otto, and C. G. Moulton, assignors to Black & Gerner, Erie, Pa. Heating-stove	16,789	July 13	36	124
Giannini, Arthur D., New York, N. Y. Advertising-sign	16,984	Nov. 16	37	678
Gibson Company, Thomas. (See Carlisle, Robert, assignor.)				
Giesecke, George F., Leipsic, Saxony, Germany. Type-border	16,842	Aug. 10	36	574
Gilham, Frank M., San Francisco, Cal., assignor to A. Buermann, Newark, N. J. Bridle-bit	17,040	Dec. 28	37	1360
Gillinder, Frederick R., Philadelphia, Pa. Crown-globe	16,746	June 22	35	1342
Gmelhin, Paul, New York, N. Y. Plate of an upright piano	16,658	Apr. 27	35	389
Goodyears Metallic Rubber Shoe Company. (See Crampton, Harry L., assignor.)				
Gorham Manufacturing Company. (See Wilkinson, Walter, assignor.)				
Graham, John, Chicago, Ill. Combination type ornament	16,522	Feb. 16	34	704
Graves, Peter T., assignor to Milwaukee Chair Company, Milwaukee, Wis. Chair-back	16,924	Oct. 5	37	2
Griffin, Alonzo J., Wilkes-Barré, Pa. Rail for fence-panels	16,939	Oct. 12	37	103
Griffin, John C., Philadelphia, Pa. Rug	17,005	Nov. 30	37	896
Grinberg, Paul J., New York, N. Y. Stove-pipe	16,547	Feb. 23	34	830
Grosjean, Charles T., assignor to Tiffany & Co., New York, N. Y. Spoon-handle	16,560 to 16,561	Mar. 9	34	1050
Guerin, Pierre E., New York, N. Y. Lamp-standard	16,610	Apr. 13	35	140
Guerin, Pierre E., New York, N. Y. Lamp-standard	16,747	June 22	35	1342
Guerin, Pierre E., New York, N. Y. Standard for lamps, &c	16,790	July 13	36	124
Guerin, Pierre E., New York, N. Y. Standard for lamps, &c	16,857	Aug. 17	36	696
Guldenstüne, Julius, New York, N. Y., assignor to A. M. and A. E. Barnhart, Chicago, Ill. Font of type	16,514	Feb. 9	34	563
Hall, Charles M., assignor of two-thirds to W. Walton and J. Faessler, Brooklyn, N. Y. Memorial plaque	16,768	July 6	36	2
Hall, Zachary T., Philadelphia, Pa. Knob	16,515	Feb. 9	34	563
Hallman, Isaac, *et al.* (See Calely, Edward L., assignor.)				
Halm, George, assignor to D. W. Bruce, New York, N. Y. Type	16,673	May 4	35	503
Hankinson, John H., New York, N. Y. Tile	17,020	Dec. 7	37	1006
Happe, John, Brooklyn, N. Y. Quilting	16,748 to 16,749	June 22	35	1342
Harbour, Peter C., Chicago, Ill. Pin	17,006	Nov. 30	37	896
Hardy, Emile, Andover, assignor to Craighead & Kintz Manufacturing Company, Ballard Vale, Mass. Mantel-piece	16,579	Mar. 23	34	1280
Harris, Azariah R., Springfield, Mass. Railway-car body	16,659	Apr. 27	35	389
Harris Stove Pattern and Machinery Company. (See Kahn, Lazard, assignor.)				
Hartje, George, New York, N. Y. Ring	16,915	Sept. 28	36	1360
Hartley Carpet and Rug Company. (See Lawrence, Emma J., assignor.)				
Hartley Carpet and Rug Company. (See Shaw, John W., assignor.)				
Hatch & Co. (See Hatch, George E., assignor.)				
Hatch, George E., assignor to Hatch & Co., Brooklyn, N. Y. Ornamentation of glassware	16,952	Oct. 26	37	342
Haubner, Lucia D., New York, N. Y. Gimp	16,651	Apr. 20	35	259
Haviland, Charles E., Limoges, France. Dishes for table-service	16,452	Jan. 5	34	2
Hayward, Sterling F., New York, N. Y. Bottle	16,503	Feb. 2	34	440

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Hayward, Sterling F., New York, N. Y. Bottle	16,562	Mar. 9	34	1050
Heath, Henry, assignor to Fisk, Clark & Flagg, New York, N. Y. Scarf	16,791	July 13	36	124
Hemming, R. Paul, assignor to G. W. Ennis & Co., Philadelphia, Pa. Rug	16,709	May 25	35	878
Hemming, Richard P., assignor to G. W. Ennis & Co., Philadelphia, Pa. Rug	16,759	June 29	35	1440
Hemming, Richard P., assignor to G. W. Ennis & Co., Philadelphia, Pa. Rug	16,769	July 6	36	2
Hensel, George F., Philadelphia, Pa. Fringe	16,724	June 8	35	1116
Hensel, George F., Philadelphia, Pa. Fringe	16,907	Sept. 21	36	1250
Hensel, George F., Philadelphia, Pa. Fringe	16,932	Oct. 12	37	103
Hermann, Isidor, assignor to R. Hermann, New York, N. Y. Hood	16,933	Oct. 12	37	103
Hermann, Rosalie. (See Hermann, Isidor, assignor.)				
Hessels, Anthony, New York, N. Y. Bow for ear-rings	16,611	Apr. 13	35	140
Heyer, Charles E., assignor to A. M. and A. E. Barnhart, Chicago, Ill. Font of type	16,516	Feb. 9	34	563
Heyser, William, Baltimore, Md. Window top sash lift	16,652	Apr. 20	35	259
Hildt, August, assignor to L. Dryfoos & Co., New York, N. Y. Quilting	16,563	Mar. 9	34	1050
Hildt, August, assignor to L. Dryfoos, New York, N. Y. Quilted lining	16,993	Nov. 23	37	788
Hiller, Louis C., Meriden, Conn. Clock-case	16,899	Sept. 14	36	1154
Hiller, Louis C., assignor to Meriden Silver Plate Company, Meriden, Conn. Clock-case	16,591	Mar. 30	34	1394
Hirschfeld, Henry W., assignor to Meriden Britannia Company, Meriden, Conn. Spoon or fork handle.	16,568	Mar. 16	34	1162
Hirschfeld, Henry W., assignor to Meriden Britannia Company, Meriden, Conn. Spoon and fork handle	16,713	June 1	35	1005
Hirsh, Alfred C., Philadelphia, Pa. Parasol	16,634	Apr. 20	35	259
Hirst, Matthew, and H. P. Robinson, Philadelphia, Pa. Rug	16,966	Nov. 2	37	458
Hofman, John, Rochester, N. Y. Counter or table leg	16,916	Sept. 28	36	1360
Horn, Frederick W., Brooklyn, assignor to Koch Sons & Co., New York, N. Y. Name-plate	16,690	May 18	35	753
Horn, William C., Orange, N. J. Name-plate	16,689	May 18	35	753
Howell, Joseph B., assignor to H. C. Stout, trustee, Philadelphia, Pa. Badge	16,863	Aug. 24	36	823
Hubbard, George M., assignor to W. & E. T. Fitch, New Haven, Conn. Harness-terret	16,478	Jan. 19	34	254
Hubbard, George M., assignor to W. & E. T. Fitch, New Haven, Conn. Harness-terret	16,569	Mar. 16	34	1162
Hurley, Thomas J., New York, N. Y. Bottle	16,864	Aug. 24	36	823
Husted, Charles E., Bridgeport, Conn. Business-wagon body	16,925	Oct. 5	37	2
Hutchison, James, Newark, N. J., assignor to A. Folsom & Son, Boston, Mass. Oil-cloth	16,865 / 16,866	Aug. 24	36	823
Huttig, William, Sr., and N. Bast, Muscatine, Iowa. Sash-fastener	16,507	Feb. 9	34	563
Ihlenburg, Herman, assignor to MacKellar, Smiths & Jordan Company, Philadelphia, Pa. Font of printing-type	16,508	Feb. 9	34	563
Ihlenburg, Herman, assignor to MacKellar, Smiths & Jordan Company, Philadelphia, Pa. Type	16,715	June 1	35	1006
Ihlenburg, Herman, assignor to MacKellar, Smiths & Jordan Company, Philadelphia, Pa. Type	16,917	Sept. 28	36	1360
Ivins, Dietz & Magee. (See Speck, James G., assignor.)				
Jackson, Austin F., assignor to Reed & Barton, Taunton, Mass. Handle for knives, forks, spoons, &c.	17,007 / 17,008	Nov. 30	37	896
Jackson, Charles W., Chicago, Ill. Furniture-gimp	16,888	Sept. 7	36	1048
Jackson, William W., Philadelphia, Pa., assignor to A. M. and A. E. Barnhart, Chicago, Ill. Font of printing-type	16,536	Feb. 16	34	704
Jackson, William W., assignor to MacKellar, Smiths & Jordan Company, Philadelphia, Pa. Type	16,716	June 1	35	1006
Jennings, Arthur O., Southport, Conn. Ornamentation of watch-dials	16,858	Aug. 17	36	696
Jennings, Oliver T., assignor to A. G. Jennings & Sons, Brooklyn, N. Y. Glove or mitt	16,942 to 16,944	Oct. 19	37	221
Jennings & Sons, A. G. (See Jennings, Oliver T., assignor.)				
Jerome, Luther E., assignor to New Haven Clock Company, New Haven, Conn. Clock-case	16,900 / 16,901	Sept. 14	36	1154
Jewett, Josiah. (See Rohlfs, Charles, assignor.)				
Johnson, Frank S., San Francisco, Cal. Inside wrapper for dried fruit	16,979	Nov. 9	37	570
Johnson, Peter G., Riley Centre, Kans. Wing cultivator-shovel	16,889	Sept. 7	36	1048
Jones, Frederick V., assignor to Zylonite Comb and Brush Company, Zylonite, Mass. Comb	16,681	May 11	35	631
Jones, Frederick V., assignor to Zylonite Comb and Brush Company, Zylonite, Mass. Comb	16,691	May 18	35	753
Jones, Frederick V., assignor to Zylonite Comb and Brush Company, Zylonite, Mass. Comb	16,710	May 25	35	878
Kahn & Brothers, F. & L. (See Kahn, Felix, assignor.)				
Kahn, Felix, Cincinnati, assignor to F. & L. Kahn & Brothers, Hamilton, Ohio. Stove	16,581	Mar. 23	34	1280
Kahn, Lazard, assignor to Harris Stove Pattern and Machinery Company, Hamilton, Ohio. Stove	16,580	Mar. 23	34	1280
Kaldenberg, Frederick J., Tarrytown, N. Y. Tobacco-pipe	16,570	Mar. 16	34	1162
Kelly, James F., Brooklyn, N. Y. Badge	16,953	Oct. 26	37	342
Keep, William J. (See Wipfler and Keep.)				
Keep, William J., and C. Wipfler, Detroit, Mich. Heating-stove	16,792	July 13	36	124
Keep, William J., and C. Wipfler, Detroit, Mich. Heating-stove	16,818	July 27	36	350
Keep, William J., and C. Wipfler, assignors to Michigan Stove Company, Detroit, Mich. Cooking-stove	16,750	June 22	35	1342
Keep, William J., and C. Wipfler, assignors to Michigan Stove Company, Detroit, Mich. Cooking-stove	16,830	Aug. 3	36	460
Kelsey, William A., Meriden, Conn. Card	16,674	May 4	35	503
Kenna, Joseph W., assignor to W. I. Bunker and C. L. Miller, Chicago, Ill. Bracket for springs	16,571	Mar. 16	34	1162
Kenyon, Wallace N., assignor to Silver Plate Cutlery Company, Birmingham, Conn. Ornamentation of knife-handles	16,660 / 16,661	Apr. 27	35	389
Kenyon, Wallace N., assignor to Silver Plate Cutlery Company, Birmingham, Conn. Ornamentation of knife-handles	16,736 / 16,737	June 15	35	1231
Kerner, Marion H., New York, N. Y. Paper-cutter	16,843	Aug. 10	36	574
Keystone Safety Nut Lock Company. (See Ball, James P., assignor.)				
Kieselhorst, John A., St. Louis, Mo. Toy money-box	16,675	May 4	35	503
Kingman, Barton E., Yonkers, N. Y. Tapestry cloth	16,926	Oct. 5	37	2
Kirkpatrick, Wallace, Anna, Ill. Model of a pioneer farm	16,738	June 15	35	1231
Kitchenman, James. (See Phipps, John, assignor.)				
Koch Sons & Co. (See Horn, Frederick W., assignor.)				
Koch, William, New York, N. Y. Quilting or embroidery pattern	16,725 / 16,726	June 8	35	1116
Kostmayer, John G., New Orleans, La. Branding-iron	17,021	Dec. 7	37	1006
Krause, Richard, New York, N. Y. Trimming	16,859	Aug. 17	36	696
Kroeber, Florence, New York, N. Y. Clock-case	16,756	June 22	35	1342
Kühn, George, St. Louis, Mo. Housing for sash-pulleys	16,980	Nov. 9	37	570
Kundtz, Theodor, Cleveland, Ohio. Skeleton frame for drawers	16,882	Aug. 31	36	944
Kupferle, John C., St. Louis, Mo. Hydrant	16,727	June 8	35	1116
Kursheedt Manufacturing Company. (See Taylor, George H., assignor.)				
La Dow, Charles, Albany, N. Y. Disk for disk-harrows	16,819	July 27	36	350
Lambertville Rubber Company. (See Prall, George W., assignor.)				
Lang, August, assignor to G. Duncan & Sons, Pittsburg, Pa. Glass vessel	16,760	June 29	35	1440

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Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Official Gazette. Page.
Larzarus, Augustus A., *et al.* (See Lipper, Benjamin, assignor.)				
Laughlin, Homer, East Liverpool, Ohio, and E. Chetwynd, Hanly, county of Stafford, England; said Chetwynd assignor to said Laughlin. Dishes and table-ware	16,613	Apr. 13	35	140
Lauschke, Ernst, assignor to A. M. and A. E. Barnhart, Chicago, Ill. Type	16,553	Mar. 2	34	926
Lawrence, Emma J., assignor to Hartley Carpet and Rug Company, Philadelphia, Pa. Rug	16,820	July 27	36	350
Lawrence, Emma J., assignor to Hartley Carpet and Rug Company, Philadelphia, Pa. Rug	16,883	Aug. 31	36	944
Lawrence, Emma J., assignor to Hartley Carpet and Rug Company, Philadelphia, Pa. Rug	16,890 16,891	Sept. 7	36	1048
Lawrence, Emma J., assignor to Hartley Carpet and Rug Company, Philadelphia, Pa. Rug	16,981	Nov. 9	37	570
Ledig, August, Philadelphia, Pa. Tray	16,612	Apr. 13	35	140
Lee, James R. (See Torsch and Lee.)				
Lees, James E. (See Lees, Thomas R., R. T., and J. E.)				
Lees Manufacturing Company. (See Lees, Thomas R., R. T., and J. E., assignors.)				
Lees, Robert T. (See Lees, Thomas R., R. T., and J. E.)				
Lees, Thomas R. and R. T., Westport, Conn., and J. E. Lees, New York, N. Y., assignors to Lees Manufacturing Company, Westport, Conn. Ornamental cable-cord	17,014	Dec. 7	37	1006
Leighton, William, Jr., Wheeling, W. Va. Ornamentation of dishes or vessels	16,994	Nov. 23	37	788
Leighton, William, Jr., Wheeling, W. Va. Ornamentation of glassware	16,995	Nov. 23	37	788
Leiter, Isaac H., New York, N. Y. Gimp	16,918	Sept. 28	36	1360
Lenox, Walter S. (See Willets and Lenox.)				
Lincoln, J. D. (See Northall, Walter K., assignor.)				
Lindenthal, Leopold, New York, N. Y. Gimp	16,884	Aug. 31	36	944
Lipman, Hymen L., Philadelphia, Pa. Frame for eyelet-machines	16,844	Aug. 10	36	574
Lipper, Benjamin, assignor to himself, A. A. Larzarus, and I. A. Schwarz, Philadelphia, Pa. Trimming	16,499	Feb. 2	34	440
Lippincott, Jesse H., Swissvale, Pa. Table vessel or dish	16,934	Oct. 12	37	103
Lisewski, August. (See Wolfe and Lisewski.)				
Litchfield, Isaac W., Warwick, N. Y. Zinc for electric batteries	16,492	Jan. 26	34	344
Little, Andrew, New York, N. Y. Font of printing-type	16,484 16,485	Jan. 19	34	254
Lochner, John, New York, N. Y., assignor to Norwalk Lock Company, South Norwalk, Conn. Ornamentation of builders' hardware	16,892	Sept. 7	36	1048
Loewenherz, Sigmund, New York, N. Y. Ornamentation of leather, &c	16,592 16,593	Mar. 30	34	1394
Loewenherz, Sigmund, New York, N. Y. Ornamentation of leather and fabric	16,683	May 11	35	631
Logee, Edgar L., Providence, R. I. Brooch or scarf-pin	16,717	June 1	35	1006
Logee, Edgar L., Providence, R. I. Lace-pin	16,718	June 1	35	1006
Logee, Edgar L., Providence, R. I. Lace-pin	16,770	July 6	36	2
Lorsch, Albert, New York, N. Y. Watch-case or locket	16,808	July 20	36	236
Lowell Manufacturing Company. (See Fisher, Edwin, assignor.)				
Lowell Manufacturing Company. (See Sauer, Emil G., assignor.)				
Lowell Manufacturing Company. (See Swapp, Charles W., assignor.)				
Lukanitsch, Joseph, and W. H. Cosman, Dallas, Tex. Badge	17,022	Dec. 7	37	1006
Lyall, James, New York, N. Y. Bag	17,041	Dec. 28	37	1360
MacColl, James R., Pawtucket, R. I. Woven fabric	16,615	Apr. 13	35	140
MacColl, James R., Pawtucket, R. I. Woven fabric	16,761	June 29	35	1440
MacKellar, Smiths & Jordon Company. (See Ihlenburg, Herman, assignor.)				
MacKellar, Smiths & Jordan Company. (See Jackson, William W., assignor.)				
MacKellar, Smiths & Jordan Company. (See MacKellar, Thomas, assignor.)				
MacKellar, Thomas, assignor to MacKellar, Smiths & Jordan Company, Philadelphia, Pa. Type	16,739	June 15	35	1231
Maddock, Henry. (See Maddock, Thomas, assignor.)				
Maddock, Thomas, assignor to H. Maddock, New York, N. Y. Table-ware	16,572	Mar. 16	34	1162
Magee, Frank A., Chelsea, and A. Garbutt, assignors to Magee Furnace Company, Boston, Mass. Heating-stove	16,876	Aug. 24	36	824
Magee, Frank A., and S. Van Vorst, Chelsea, assignors to Magee Furnace Company, Boston, Mass. Heating stove and furnace	16,985	Nov. 16	37	678
Magee Furnace Company. (See Magee and Garbutt, assignors.)				
Magee Furnace Company. (See Magee and Van Vorst, assignors.)				
Manhattan Wall Paper Company. (See Baumgarten, Joseph, assignor.)				
Mankey, Frederick, Williamsport, Pa. Molding	16,456 16,457	Jan. 12	34	134
Mankey, Frederick, Williamsport, Pa. Surface ornamentation of walls, &c	16,458	Jan. 12	34	134
Mankey, Frederick, Williamsport, Pa. Open-work panel	16,459 to 16,461	Jan. 12	34	134
Mankey, Frederick, Williamsport, Pa. Panel	16,462	Jan. 12	34	134
Mankey, Frederick, Williamsport, Pa. Molding	16,523 to 16,527	Feb. 16	34	704
Mankey, Frederick, Williamsport, Pa. Surface ornamentation of walls, &c	16,528	Feb. 16	34	704
Mankey, Frederick, Williamsport, Pa. Surface ornamentation of walls	16,529	Feb. 16	34	704
Mankey, Frederick, Williamsport, Pa. Surface ornamentation of walls, &c	16,530	Feb. 16	34	704
Mankey, Frederick, Williamsport, Pa. Surface ornamentation of walls	16,531	Feb. 16	34	704
Mankey, Frederick, Williamsport, Pa. Surface ornamentation of walls	16,635 to 16,637	Apr. 20	35	259
Mankey, Frederick, Williamsport, Pa. Molding	16,653	Apr. 20	35	260
Mankey, Frederick, Williamsport, Pa. Molding	16,655	Apr. 20	35	260
Mankey, Frederick, Williamsport, Pa. Molding	16,860	Aug. 17	36	696
Mankey, Frederick, Williamsport, Pa. Surface ornamentation of walls	16,861	Aug. 17	36	696
Mankey, Frederick, Williamsport, Pa. Surface ornamentation	16,954	Oct. 26	37	342
Mankey, Frederick, Williamsport, Pa. Molding	16,955 to 16,958	Oct. 26	37	342
Manning, Edwin C., Washington, D. C. Padlock-case	16,614	Apr. 13	35	140
Marder, Luse & Co. (See Capitain, William F., assignor.)				
Maris, Jared, Columbus, Ohio. Ornamentation of hubs	16,467 16,468	Jan. 12	34	134
Marks, Solomon, assignor to Post & Co., Cincinnati, Ohio. Ornamentation of hub-bands	16,603	Apr. 6	35	2
Marsh, Edward A., Newton, Mass. Watch-crown	16,466	Jan. 12	34	134
Marsh, James A., Cleveland, Ohio. Top of a cooking-stove	16,662	Apr. 27	35	389
Martens, John F., assignor to Redway & Burton, Cincinnati, Ohio. Cooking-stove	16,664 16,665	Apr. 27	35	389
Martens, John F., assignor to Redway & Burton, Cincinnati, Ohio. Stove	16,935	Oct. 12	37	103

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Marx, Zero, Chicago, Ill. Ash-bowl	16,573	Mar. 16	34	1162
Masters, William, Kansas City, Mo. Stove	16,692	May 18	35	753
Matuska, Louis E., Chicago, Ill. Folding bed-frame	16,986	Nov. 16	37	678
McCarthy, Oliver, assignor to Meriden Britannia Company, Meriden, Conn. Coffin-trimming	16,782	July 6	36	2
McCarthy, Oliver, assignor to Meriden Britannia Company, Meriden, Conn. Coffin-handle arm	16,893	Sept. 7	36	1048
McCarthy, Oliver, assignor to Meriden Britannia Company, Meriden, Conn. Coffin-trimmings	16,897	Sept. 14	36	1154
McConnell, John M., Anderson, S. C. Landside for plows	16,996	Nov. 23	37	788
McElroy, James J., and A. D. Fancher, Binghamton, N. Y. Rocking-chair	16,945	Oct. 19	37	221
McFaddin, Harrison G., Brooklyn, N. Y. Lamp or gas globe	16,509	Feb. 9	34	563
McGill, George W., Riverdale, N. Y. Paper-fastener	16,548	Feb. 23	34	830
McKee & Brothers. (See Proeger, Julius, assignor.)				
McLaughlin, John K. (See Mott and McLaughlin.)				
McMurray, Daniel E. D., Brooklyn, N. Y. Watch or locket case	17,027	Dec. 21	37	1252
Mehl, John, Sr., Hoboken, N. J. Embossed leather for hand-bags and other fancy leather goods	16,486	Jan. 19	34	254
Melville, David G., Medford, assignor to Roxbury Carpet Company, Boston, Mass. Carpet	16,510	Feb. 9	34	563
Melville, David G., Medford, assignor to Roxbury Carpet Company, Boston, Mass. Carpet	16,554	Mar. 2	34	926
Merceron, Victor J., assignor to Perfection Playing Card Company, Philadelphia, Pa. Playing-card	16,868	Aug. 24	36	823
Meriden Britannia Company. (See Hirschfeld, Henry W., assignor.)				
Meriden Britannia Company. (See McCarthy, Oliver, assignor.)				
Meriden Britannia Company. (See Smith, William M., assignor.)				
Meriden Silver Plate Company. (See Casper, Charles, assignor.)				
Meriden Silver Plate Company. (See Hiller, Louis C., assignor.)				
Merriman, James G., assignor to Rome Malleable Iron Works, Rome, N. Y. Harness-saddle	16,867	Aug. 24	36	823
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth	16,479	Jan. 19	34	254
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth	16,582 to 16,585	Mar. 23	34	1280
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth	16,693 to 16,706	May 18	35	753 754
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth	16,771 to 16,776	July 6	36	2
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth	16,967 to 16,971	Nov. 2	37	458
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth	17,028 to 17,031	Dec. 21	37	1252
Meyer, John. (See Burnell and Meyer.)				
Meyer-Sniffen Company. (See Bunting, William, Jr., assignor.)				
Meyer, Victor E. (See Meyer, Charles T. and V. E.)				
Michigan Stove Company. (See Keep and Winfler, assignors.)				
Miller, Charles L., *et al.* (See Kenna, Joseph W., assignor.)				
Miller, Fredrick C., Newport, Ky. Box-opener	16,604	Apr. 6	35	2
Miller, John E., Pittsburg, Pa. Glassware	16,997	Nov. 23	37	788
Miller, John E., assignor to G. Duncan & Sons, Pittsburg, Pa. Vessel or dish	16,594	Mar. 30	34	1394
Milwaukee Chair Company. (See Graves, Peter T., assignor.)				
Mix, Frank W., New Britain, Conn. Ornamentation of keys	16,564	Mar. 9	34	1050
Monroe, Charles W., Bay City, Mich. Air-moistener	16,783	July 6	36	2
Montross, Isaac T., Peekskill, N. Y. Heating-stove	16,793	July 13	36	124
Morris, Edward D., Chicago, Ill. Tile-display stand	16,998	Nov. 23	37	788
Morrow, Frederick B., San Francisco, Cal. Metal ingot	16,762	June 29	35	1440
Morse, John F., Chicago, Ill. Scarf-pin	16,719	June 1	35	1006
Mott, Abram C., Philadelphia, Pa. Fire-place plate	16,517	Feb. 9	34	564
Mott, Abram C., assignor to A. Cox Stove Company, Philadelphia, Pa. Heating-stove	16,654	Apr. 20	35	260
Mott, Abram C., and J. K. McLaughlin, assignors to A. Cox Stove Company, Philadelphia, Pa. Stove or range	16,586	Mar. 23	34	1280
Mott Iron Works, J. L. (See Peet, William C., assignor.)				
Moulton, Charles G. (See Germer and Moulton.)				
Moulton, Hamilton L., Philadelphia, Pa. Side bar of rub-roll frames	16,794	July 13	36	124
Moulton, James N., Haverhill, Mass. Ornamentation of inner-sole linings	16,663	Apr. 27	35	389
Mullan, John H., assignor to L. F. Smith, Philadelphia, Pa. Show-case	16,987	Nov. 16	37	678
Mullen, James T., New Haven, Conn. Badge	16,711	May 25	35	878
Müller, Hermann J., New York, N. Y. Clock-stand	16,714	June 1	35	1005
Müller, Karl, assignor to N. Müller's Sons, New York, N. Y. Lamp-body	16,964	Oct. 26	37	342
Müller's Sons, Nicholas. (See Müller, Karl, assignor.)				
Murphy, John, Brooklyn, N. Y. Rubber mat	16,574	Mar. 16	34	1162
New Haven Clock Company. (See Camp, Walter C., assignor.)				
New Haven Clock Company. (See Jerome, Luther E., assignor.)				
New Jersey Car Spring and Rubber Company. (See Baum, William, assignor.)				
New Jersey Car Spring and Rubber Company. (See O'Connor, Michael, assignor.)				
New York Stationery and Envelope Company. (See Peck, Edward S., assignor.)				
Newton, Stephen S., Brooklyn, N. Y. Medal	17,009	Nov. 30	37	896
Nivois, Victor, New York, N. Y. Watch or locket case	16,972	Nov. 2	37	458
Northall, Walter K., New York, assignor to J. D. Lincoln, Brooklyn, N. Y. Crumb-brush	17,015	Dec. 7	37	1006
Norwalk Lock Company. (See Lochner, John, assignor.)				
Novelty Electric Company. (See Bacon, Murray, assignor.)				
O'Connor, John S., assignor to C. Dorflinger & Sons, White Mills, Pa. Dish	16,676	May 4	35	503
O'Connor, Michael, assignor to New Jersey Car Spring and Rubber Company, Jersey City, N. J. Door-mat	16,618	Apr. 13	35	140
Oertling, Friedrich, Berlin, Prussia, Germany. Barometer-frame	16,845	Aug. 10	36	574
Osborn, Edward C. and H., Brooklyn, N. Y. Paper box	16,831	Aug. 3	36	460
Osborn, George R., New York, N. Y. Banner-rod	16,616	Apr. 13	35	140
Osborn, George R., New York, N. Y. Easel	16,617	Apr. 13	35	140
Osborn, Herbert. (See Osborn, Edward C. and H.)				
Palmer, Henry L., Brooklyn, N. Y. Crumb-tray	16,959	Oct. 26	37	342
Palmer, Henry L., Brooklyn, N. Y. Crumb-tray	16,963	Oct. 26	37	342
Palmer, Henry L., Brooklyn, N. Y. Crumb-tray	16,974	Nov. 2	37	458
Palmer, Solon, New York, N. Y. Cake of soap	16,960	Oct. 26	37	342
Parker, Henry F., New York, N. Y., assignor to A. H. Andrews & Co. End support for seats	16,816	July 20	36	236
Parker, John J., Aitkin, Minn., assignor to W. W. Parker, Spearfish, Dak. Ter. Saw-blade	16,869	Aug. 24	36	823
Parker, W. W. (See Parker, John J., assignor.)				
Parkhurst, Augustus G. Minneapolis, Minn. Tile	16,777	July 6	36	2

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Official Gazette. Page.
Payson, Joseph R., Sr., Chicago, Ill. Latch-case	16,595	Mar. 30	34	1394
Peak, William N., Brooklyn, N. Y. Wall-paper	16,936	Oct. 12	37	103
Peak, William N., Brooklyn, N. Y. Wall-paper	16,961 to 16,962	Oct. 26	37	342
Peak, William N., Brooklyn, N. Y. Wall-paper	16,973	Nov. 2	37	458
Peak, William N., Brooklyn, N. Y. Wall-paper	17,016	Dec. 7	37	1006
Peck, Edward S., Brooklyn, assignor to New York Stationery and Envelope Company, New York, N. Y. Doll	17,042	Dec. 28	37	1360
Peet, William C., assignor to J. L. Mott Iron Works, New York, N. Y. Stall-guard	16,575	Mar. 16	34	1162
Peet, William C., assignor to J. L. Mott Iron Works, New York, N. Y. Leg for bath-tubs, &c	16,784	July 6	36	2
Pegel, Julius, Camden, N. J., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	16,795	July 13	36	124
Pegel, Julius, Camden, N. J., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	16,832 to 16,835	Aug. 3	36	460
Penfold, Charles C., Buffalo, N. Y. Medal	17,017	Dec. 7	37	1006
Perfection Playing Card Company. (See Merceron, Victor J., assignor.)				
Peter, Francis A., Deibertsville, Pa. Cellar-grate	16,740	June 15	35	1231
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	16,487	Jan. 19	34	254
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	16,500	Feb. 2	34	440
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	16,555	Mar. 2	34	926
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	16,638 to 16,641	Apr. 20	35	259
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	16,751	June 22	35	1342
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	16,809 to 16,810	July 20	36	236
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	16,821	July 27	36	350
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	16,846	Aug. 10	36	574
Pfahl, Frank, New York, N. Y. Bottle	16,549	Feb. 23	34	830
Pfeifer, August F., Newark, N. J. Metal tubing	16,763	June 29	35	1440
Pfeil, Charles H., Chicago, Ill. Finger-ring	16,684	May 11	35	631
Phillips, James, Jr., assignor to Fitchburg Worsted Company, Fitchburg, Mass. Fabric	16,919	Sept. 28	36	1360
Phillips, Joseph J., Brooklyn, N. Y. Memorial-tablet	16,565	Mar. 9	34	1050
Phipps, John, assignor to J. Kitchenman, Philadelphia, Pa. Hosiery	16,501	Feb. 2	34	440
Pike, William A., New York, N. Y. Inkstand	16,453	Jan. 5	34	2
Pinkus, Frederick S., New York, N. Y. Cloth	16,532	Feb. 16	34	704
Place, Charles, Cambridge, Mass. Jewelry-rack	16,556	Mar. 2	34	926
Place, Charles, Cambridge, Mass. Jewelry and pin cushion	16,778	July 6	36	2
Planchamp, John D., Chicago, Ill. Watch-case	16,605	Apr. 6	35	2
Post & Co. (See Marks, Solomon, assignor.)				
Powell, Frank M., Chicago, Ill. Printing-type	16,870	Aug. 24	36	823
Prall, George W., assignor to Lambertville Rubber Company, Lambertville, N. J. India-rubber rattle	16,755	June 22	35	1342
Preble, Walter E., New York, N. Y. Link for drying-chains of envelope-machines	16,999	Nov. 23	37	788
Preston, E. Bruce, Chicago, Ill. Rubber boot or shoe	16,678	May 4	35	504
Prindle, Edward T., Aurora, Ill. Wheel for carpet-sweepers	16,480	Jan. 19	34	254
Proeger, Julius, assignor to McKee & Brothers, Pittsburg, Pa. Coach-bowl	16,488	Jan. 19	34	254
Provenzano, Joseph N., New York, N. Y. Knob or handle for canes	16,502	Feb. 2	34	440
Rapp, Frederick, Chicago, Ill. Watch-case	16,885	Aug. 31	36	944
Rathbone, Sard & Co. (See Van Buren, Jafew S., assignor.)				
Read, Josiah M. (See Currier, Edward M., assignor.)				
Redway & Burton. (See Martens, John F., assignor.)				
Reed & Barton. (See Jackson, Austin F., assignor.)				
Reynolds, William W., Rutland, Vt. Support for the weigh-beams of scales	16,606	Apr. 6	35	2
Richardson, Dwight S., Brooklyn, N. Y. Range	16,518	Feb. 9	34	564
Rider, John P., Matteawan, N. Y. India-rubber rattle	16,481	Jan. 19	34	254
Riker, William F., Newark, N. J. Bridle-rosette	16,596	Mar. 30	34	1394
Ringen, John, St. Louis, Mo. Saucepan	16,566	Mar. 9	34	1050
Ringen, John, St. Louis, Mo. Saucepan	16,685	May 11	35	631
Rivers, Thomas L., Newark, N. J. Trunk-catch	16,871	Aug. 24	36	823
Robinson, Harry P. (See Hirst and Robinson.)				
Rochester Tumbler Company. (See Fry, George W., assignor.)				
Rogers & Bros., C. (See Sperry, Albert A., assignor.)				
Rogers & Hamilton Company. (See Schoonmaker, Edward T., assignor.)				
Rogers, John, New Canaan, Conn. Group of statuary	16,836	Aug. 3	36	460
Rogers, John, New Canaan, Conn. Group of statuary	16,894	Sept. 7	36	1048
Rogers, William, Hartford, Conn. Handle for a spoon or like article	16,642	Apr. 20	35	259
Rohlfs, Charles, Brooklyn, assignor to J. Jewett, Buffalo, N. Y. Heating-stove	17,000	Nov. 23	37	788
Rome Malleable Iron Works. (See Merriman, James G., assignor.)				
Roux, Alexander J., New York, N. Y. Drawer-handle	16,587	Mar. 23	34	1280
Roxbury Carpet Company. (See Melville, David G., assignor.)				
Roxbury Carpet Company. (See Stearns, Thomas J., assignor.)				
Royer Wheel Company. (See Fraser, Henry M., assignor.)				
Rubel, Isaac F., Chicago, Ill. Knife-handle	16,686 to 16,687	May 11	35	631
Rubel, Isaac F., Chicago, Ill. Knife-handle	16,741 to 16,742	June 15	35	1231
Russell & Erwin Manufacturing Company. (See Christesen, Rodolphe, assignor.)				
Ruthven, Edwin C., Philadelphia, Pa., assignor to D. W. Bruce, New York, N. Y. Type	16,643	Apr. 20	35	259
Sampson, Edward C. (See Meyer, Charles T. and V. E., assignors.)				
Samuel, Edward. (See Wharton and Samuel.)				
Sargent & Co. (See Sargent, Edward R., assignor.)				
Sargent & Co. (See Stevens, William E., assignor.)				
Sargent, Edward R., assignor to Sargent & Co., New Haven, Conn. Coffin-screw	16,679	May 4	35	504
Sauer, Emil G., Brooklyn, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	16,482	Jan. 19	34	254
Savage, William B., West Somerville, Mass. Chair	16,646	Apr. 20	35	259
Sawtelle, Clarence W., assignor to himself, W. L. and L. W. Woodcock, Winchendon, Mass. Work-box or toilet-case	16,811	July 20	36	236
Schindler, Charles A., West Hoboken, N. J. Posing-chair	16,493	Jan. 26	34	344
Schmidt, Christian A., Hoboken, N. J. Pendant	16,752	June 22	35	1342
Schneider, Bennett B., New York, N. Y. Pendant for lamps	16,550	Feb. 23	34	830
Schoonmaker, Edward T., New York, N. Y., assignor to Rogers & Hamilton Company, Waterbury, Conn. Fork or spoon handle	17,043	Dec. 28	37	1360

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Schram, Jacob and L., Chicago, Ill. Combined easel and frame	16,875	Aug. 24	36	824
Schram, Louis. (See Schram, Jacob and L.)				
Schraubstadter, Carl, Jr., St. Louis, Mo. Font of printing-type	16,946	Oct. 19	37	221
Schraubstadter, Carl, Jr., St. Louis, Mo. Font of printing-type	16,988	Nov. 16	37	678
Schwartz, Charles O., Milwaukee, Wis. Oil-stove	16,628	Apr. 13	35	140
Schwartz & Co., J. (See Baltheim, Paul J., assignor.)				
Schwarz, Isaac A., *et al.* (See Lipper, Benjamin, assignor.)				
Sears, Henry C., Boston, Mass. Carriage-body	17,018	Dec. 7	37	1006
Seelians, Paul, New York, N. Y. Cane or umbrella handle	16,796	July 13	36	124
Seely, Frank, New York, N. Y. Label	16,779	July 6	36	2
Séguin, Norcom L., Philadelphia, Pa. Parasol or umbrella top	16,597	Mar. 30	34	1394
Seidensticker, F. Robert, assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Andiron	16,872 16,873	Aug. 24	36	824
Seidensticker, F. Robert, assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Andiron	16,908	Sept. 21	36	1250
Seidensticker, F. Robert, assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Fender	16,909 16,910	Sept. 21	36	1250
Selsor, James E., assignor to Germantown Tool Works, Philadelphia, Pa. Hammer	16,729	June 8	35	1116
Sharpless, William C. (See Watts, David H., assignor.)				
Shaw, John W., assignor to Hartley Carpet and Rug Company, Philadelphia, Pa. Rug	16,922	Sept. 28	36	1360
Shepard, Charles G., and P. Adams, Buffalo, N. Y.; said Adams assignor to W. J. Shepard. Toy savings-bank	16,728	June 8	35	1116
Shepard, Frederick M., East Orange, N. J. Rubber boot or shoe	16,645	Apr. 20	35	259
Shepard, Walter J. (See Shepard and Adams, assignors.)				
Shepard, Wilbur L., Hartford, Conn. Lamp-body	16,797	July 13	36	124
Shiebler, George W., Brooklyn, N. Y. Handle for spoons, forks, &c.	17,044	Dec. 28	37	1360
Silver Plate Cutlery Company. (See Griffin, Frederick W., assignor.)				
Silver Plate Cutlery Company. (See Kenyon, Wallace N., assignor.)				
Simpson, John, assignor to Cleveland Malleable Iron Company, Cleveland, Ohio. Hub-band	16,624 to 16,627	Apr. 13	35	140
Skilton, George S., Brooklyn, N. Y. Tray	17,032	Dec. 21	37	1252
Smedes, Levi K., Mount Vernon, N. Y. Casket	16,463	Jan. 12	34	134
Smith, Hurley G., Philadelphia, assignor to Danville Stove and Manufacturing Company, Danville, Pa. Stove	16,940	Oct. 12	37	104
Smith, John E., New York, N. Y. Cake of soap	16,588	Mar. 23	34	1280
Smith, Levi F. (See Mullan, John H., assignor.)				
Smith, Thomas C., Brooklyn, N. Y. Dish	16,812	July 20	36	236
Smith, W. Stone. (See Way, Theodore B., assignor.)				
Smith, William M., assignor to Meriden Britannia Company, Meriden, Conn. Coffin-handle socket	16,576	Mar. 16	34	1162
Smith, William T., Philadelphia, Pa. Rug	17,033	Dec. 21	37	1252
Sneider, Robert, Brooklyn, N. Y. Game-box	16,780	July 6	36	2
Sneider, Robert, Brooklyn, N. Y. Inkstand	16,847	Aug. 10	36	574
Sommer, Henry B., Philadelphia, Pa. Watch display-case	16,927	Oct. 5	37	2
Spadone, Amadee, New York, N. Y. Mat	16,982	Nov. 9	37	570
Speck, James G., assignor to Ivins, Dietz & Magee, Philadelphia, Pa. Carpet	16,619 to 16,623	Apr. 13	35	140
Sperry, Albert A., assignor to C. Rogers & Bros., Meriden, Conn. Spoon or fork handle	16,798	July 13	36	124
Spitzer, Jacob A., Philadelphia, Pa. Muff	16,644	Apr. 20	35	259
Sprague, James H., Norwalk, Ohio. Kite-cover	16,895	Sept. 7	36	1048
Stark, Andrew, Chicago, Ill. Sofa	16,850	Aug. 10	36	574
Stauffer, David F., York, Pa. Cracker	16,848 16,849	Aug. 10	36	574
Stearns, Thomas J., assignor to Roxbury Carpet Company, Boston, Mass. Carpet	16,494	Jan. 26	34	344
Stearns, Thomas J., assignor to Roxbury Carpet Company, Boston, Mass. Carpet	16,557	Mar. 2	34	926
Stegmann, Edward H., Indianapolis, Ind. Badge	16,813	July 20	36	236
Stevens, William E., assignor to Sargent & Co., New Haven, Conn. Coffin-plate	16,577	Mar. 16	34	1162
Stout, Harry C., trustee. (See Howell, Joseph B., assignor.)				
Swapp, Charles W., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	16,837 to 16,839	Aug. 3	36	460
Tappan, Herman, New York, N. Y. Bonquet-holder	17,023	Dec. 14	37	1127
Tappan, J. Sewell, assignor to Fisk, Clark & Flagg, New York, N. Y. Scarf	17,001	Nov. 23	37	788
Taylor, George H., assignor to Kursheedt Manufacturing Company, New York, N. Y. Ruching	17,010	Nov. 30	37	896
Tayoux, Louis A. F. B., Paris, France. Musical-scale pointer	17,034	Dec. 21	37	1252
Teufel, Charles, Chicago, Ill. Folding-bed case	16,851	Aug. 10	36	574
Textile Manufacturing Company. (See Fogelstrand, Otto F., assignor.)				
Thau, Henry, New York, N. Y. Call-box	17,002	Nov. 23	37	788
Thorp, James H., Brooklyn, N. Y. Gimp	16,551	Feb. 23	34	830
Tiffany & Co. (See Grosjean, Charles T., assignor.)				
Tiffany & Co. (See Whitehouse, James H., assignor.)				
Tobias, Francis H., New York, N. Y. Easel	16,511	Feb. 9	34	563
Torsch, Edward L., and J. R. Lee, Baltimore, Md. Badge-pin	17,024	Dec. 14	37	1127
Treat, Charles H., and A. B. Banghart, Georgetown, Del. Dish	17,035	Dec. 21	37	1252
Trunk, Anton, Bridgeport, Conn. Corkscrew	16,799	July 13	36	124
Tucker, William B., Columbus, Ohio. Index-plate and nut	16,874	Aug. 24	36	824
Turner, Frederick, Philadelphia, Pa. Button	16,666	Apr. 27	35	389
Turner, Frederick, Philadelphia, Pa. Badge or pin	16,667	Apr. 27	35	389
Underwood, John T., Brooklyn, N. Y. Bottle	16,712	May 25	35	878
Upton, Edgar W., Peabody, Mass. Case for mechanical thermometers	16,989	Nov. 16	37	678
Van Buren, Jafew S., assignor to Rathbone, Sard & Co., Albany, N. Y. Cooking-stove	16,800 16,801	July 13	36	124
Van Vorst, Sylvester. (See Magee and Van Vorst.)				
Wagner, Christian W., *et al.* (See Calely, Edward L., assignor.)				
Wagner, William, *et al.* (See Calely, Edward L., assignor.)				
Walter, William G., assignor to Campbell, Jones & Co., Pittsburg, Pa. Glass vessel	16,607	Apr. 6	35	2
Walton, William, *et al.* (See Hall, Charles M., assignor.)				
Warner, Walter H., Springfield, Mass. Badge	16,975	Nov. 2	37	458
Warner, William R., Philadelphia, Pa. Wire stand	16,533	Feb. 16	34	704
Watts, David H., assignor to himself and W. C. Sharpless, Philadelphia, Pa. Tile	16,668	Apr. 27	35	390
Way, Theodore B., assignor to W. S. Smith, Troy, N. Y. Stove-door	16,753	June 22	35	1342
Weatherhead, Albert J., Cleveland, Ohio. Vent-valve	16,886	Aug. 31	36	944
Wehrle, August F., Denver, Colo. Scarf-pin	16,504	Feb. 2	34	440

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Weinberg, Charles, assignor to C. Weinberg & Co., New York, N. Y. Gimp	16,902	Sept. 14	36	1154
Weinberg & Co., C. (See Weinberg, Charles, assignor.)				
Wells, Irvin L., *et al.* (See Caley, Edward L., assignor.)				
West, James, Brooklyn, N. Y. Font of combination type ornaments	16,920	Sept. 28	36	1360
Wharton & Company, William, Jr. (See Wharton and Samuel, assignors.)	16,921			
Wharton, William, Jr., and E. Samuel, assignors to W. Wharton, Jr., & Company, (limited,) Philadelphia, Pa. Railway-rail	16,764	June 29	35	1440
Wheeler, Candace, Jamaica, N. Y. Hangings, coverings, &c	16,469	Jan. 12	34	134
Wheeler, Candace, New York, N. Y. Decoration of curtain fabrics, &c	16,730 to 16,732	June 8	35	1116
Wheeler, Candace, New York, N. Y. Curtain fabric	17,045	Dec. 28	37	1360
White, Thomas, Quincy, Ill. Heating-stove	16,483	Jan. 19	34	254
White, Thomas, Quincy, Ill. Heating-stove	16,990 16,991	Nov. 16	37	678
Whitehouse, James H., Brooklyn, assignor to Tiffany & Co., New York, N. Y. Badge	16,647	Apr. 20	35	259
Whitman, Stephen F., Philadelphia, Pa. Box	16,629	Apr. 13	35	140
Wilkinson, Walter, assignor to Gorham Manufacturing Company, Providence, R. I. Spoon-handle.	16,688	May 11	35	631
Wilkinson, Walter, assignor to Gorham Manufacturing Company, Providence, R. I. Fork, spoon, &c	17,011	Nov. 30	37	896
Wilkinson, William, Philadelphia, Pa Sprinkling can	16,822	July 27	36	350
Willets, Joseph, and W. S. Lenox, Trenton, N. J. Table-ware	16,534	Feb. 16	34	704
Winger, Josiah G., Grand Valley, Pa. Combined inkstand and pen-rack	16,852	Aug. 10	36	574
Winter, John B., Louisville, Ky. Chimney-top cap	16,754	June 22	35	1342
Wipfler, Charles. (See Kemp and Wipfler.)				
Wipfler, Charles, and W. J. Keep, Detroit, Mich. Stove	16,677	May 4	35	504
Wirz, August H., Wallingford, Pa. Match-box	16,983	Nov. 9	37	570
Wirz, August H., Wallingford, Pa. Bottle-stopper	16,992	Nov. 16	37	678
Withman, Louis J., Plainville, Mass. Jewelry-stock	16,814	July 20	36	236
Wolfe, Gordon G., and A. Lisewski, assignors to Fuller & Warren Company, Troy, N. Y. Parlor-stove	16,648 16,649	Apr. 20	35	259
Wood, Walter A., assignor to T. B. Clark & Co., Honesdale, Pa. Glass vessel	16,720	June 1	35	1006
Woodcock, Leslie W., *et al.* (See Sawtelle, Clarence W., assignor.)				
Woodcock, William L., *et al.* (See Sawtelle, Clarence W., assignor.)				
Woolf, Mortimer, New York, N. Y. Bottle	16,892	July 13	36	124
Young, William L., St. Charles, Mo. Box	16,823	July 27	36	350
Zacharie, Elly, assignor to Bazin & Sargent, New York, N. Y. Cake soap	16,535	Feb. 16	34	704
Zylonite Comb and Brush Company. (See Jones, Frederick V., assignor.)				

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Name, residence, and title.	No.	Date.	Official Gazette. Volume.	Official Gazette. Page.
Abegg, Daeniker & Co., New York, N. Y. Nuns' veiling	13,744	Oct. 19	37	222
Abrams, Joseph B. (See Alling and Abrams.)				
Acid Earth Mining and Manufacturing Company, Mobile, Ala. Extract of acid iron earth	13,151	Apr. 6	35	2
Acid Iron Earth Company, Mobile, Ala. Medicinal remedies prepared from a certain natural deposit of earthy formation	13,547	Aug. 10	36	574
Acker, Albert E., Washington, D. C. Medicinal tonic	13,504	July 20	36	236
Adee & Co., Fred, New York, N. Y. Stationary stop-cocks and stops and boxes for the same for water and gas supply pipes	13,308	May 18	35	754
Adicks, George O. (See Baya and Adicks.)				
Adler Bros. & Co., Philadelphia, Pa. Soap	13,403	June 15	35	1232
Adler, Goldman & Co., St. Louis, Mo. Plug-tobacco	13,152	Apr. 6	35	2
Adler, Samuel C., Philadelphia, Pa. Soap	13,695	Sept. 28	36	1360
Adrot, Christello & Co., Chicago, Ill. Soap	12,931	Jan. 12	34	134
Ainsworth, Seymour, Saratoga Springs, N. Y. Pillows	13,868	Dec. 14	37	1127
Akron Twine and Cordage Company, Akron, Ohio. Manila and sisal cordage and binders' twine	12,932	Jan. 12	34	134
Albert Nail Company, New York, N. Y. Wire nails	13,060	Mar. 2	34	926
Aldrich, George W., Burlington, N. J. Certain canned goods	13,102	Mar. 16	34	1162
Allen & Co., B. W., New York, N. Y. Whisky	13,256	May 4	35	504
Allen Company, Charles W., Chicago, Ill. Smoking and chewing tobacco	13,061	Mar. 2	34	926
Allen Company, Charles W., Chicago, Ill. Smoking and chewing tobacco and cigars	13,207	Apr. 20	35	260
Allen Company, Charles W., Chicago, Ill. Smoking and chewing tobacco	13,226	Apr. 27	35	390
Allen, Thomas W. (See Weidler and Allen.)				
Alling, David G., and J. B. Abrams, Dunkirk, N. Y. Catarrh-snuff	13,833	Nov. 30	37	896
Allones, Ramon, Havana, Cuba, New York, N. Y., and New Orleans, La. Cigars and cigarettes	13,514	July 20	36	236
Altman, Benjamin, New York, N. Y. Corset-covers	13,118	Mar. 23	34	1280
Altman, Benjamin, New York, N. Y. Corsets	13,811	Nov. 23	37	788
American Eagle Tobacco Company, Detroit, Mich. Chewing and smoking tobacco	12,910	Jan. 5	34	2
American Enamel Company, Providence, R. I. Articles having a surface in imitation of agate	12,951	Jan. 19	34	234
American Waltham Watch Company, Waltham, Mass. Watches, watch-cases, and all the parts of watches and watch-movements	13,730	Oct. 12	37	104
Ansinck & Co., G., New York, N. Y. Whisky	13,103	Mar. 16	34	1162
Anderson, William W., New York, N. Y. Garters and garment-supporters and their parts and attachments	13,812	Nov. 23	37	788
Andrew, E. C., Montgomery, Ala. Face-powder	13,193	Apr. 20	35	260
Angell, Albert, Newark, N. J. Belt-grease	13,513	July 20	36	236
Angell, Albert, Newark, N. J. Soap	13,544	Aug. 3	36	460
Anheuser-Busch Brewing Association, St. Louis, Mo. Beer	13,194	Apr. 20	35	260
Anheuser-Busch Brewing Association, St. Louis, Mo. Beer	13,195	Apr. 20	35	260
Anheuser-Busch Brewing Association, St. Louis, Mo. Beer	13,196	Apr. 20	35	260
Anheuser-Busch Brewing Association, St. Louis, Mo. Beer	13,197	Apr. 20	35	260
Anheuser-Busch Brewing Association, St. Louis, Mo. Beer	13,198	Apr. 20	35	260
Anheuser-Busch Brewing Association, St. Louis, Mo. Beer	13,199	Apr. 20	35	260
Anheuser-Busch Brewing Association, St. Louis, Mo. Beer	13,200	Apr. 20	35	260
Anheuser-Busch Brewing Association, St. Louis, Mo. Beer	13,368	June 8	35	1116
Arcadian Mineral Spring Company, Waukesha, Wis. Mineral waters, effervescent drinks, ginger-ale, ginger-nectar, lemonade, &c.	13,404	June 15	35	1232
Arctic Mica Company, Philadelphia, Pa. Mica	13,869	Dec. 14	37	1128
Armor Lithographing Company, (limited,) Pittsburg, Pa. Lithographs	12,963	Jan. 26	34	344
Armour Packing Co., Kansas City, Mo. Cured and canned meats, and lard	13,853	Dec. 7	37	1006
Armstrong, Martin L., Harshaville, Pa. Rheumatism and diphtheria cure	13,153	Apr. 6	35	2
Arnheim, D., Pittsburg, Pa. Liniment	13,427	June 22	35	1342
Arnold & Co., F. R., New York, N. Y. Perfumery, extracts, soaps, toilet-waters, sachets, tooth powders and washes, and toilet-powders	13,505	July 20	36	236
Arnold Print Works, North Adams, Mass. Cotton goods	13,397	June 15	35	1232
Arnold Print Works, North Adams, Mass. Cotton goods	13,398	June 15	35	1232
Arnold Print Works, North Adams, Mass. Cotton goods	13,399	June 15	35	1232
Arnold Print Works, North Adams, Mass. Cotton cloth	13,526	July 27	36	350
Arnold, William B., North Abington, Mass. Cordwainer's thread composed in part of metallic wire	13,784	Nov. 2	37	458
Ascough, Jesse, Handsworth, near Birmingham, county of Stafford, England. Perfumed soap and perfumed saponaceous preparations, preparations for the teeth and hair, detergents, and antiseptics	13,482	July 13	36	124
Ascough, Jesse, Handsworth, near Birmingham, county of Stafford, England. Washing compounds and soap	13,483	July 13	36	124
Ascough, Jesse, Handsworth, near Birmingham, county of Stafford, England. Perfumed soap, preparations for the bath, the teeth, the hair, and the skin	13,484	July 13	36	124
Ascough, Jesse, Handsworth, near Birmingham, county of Stafford, England. Substances used for antiseptic, agricultural, horticultural, veterinary, and sanitary purposes	13,493	July 13	36	124
Ascough, Jesse, Handsworth, near Birmingham, county of Stafford, England. Soap and saponaceous preparations, detergents, starch, and blue	13,494	July 13	36	124
Ascough, Jesse, Handsworth, near Birmingham, county of Stafford, England. Starch and starch-glaze	13,603	Aug. 24	36	824
Atkins & Company, E. C., Indianapolis, Ind. Saws	13,369	May 18	35	754
Atwood, L. W., Portland, Me. Canned oysters	13,465	July 6	36	2
Auchincloss Brothers, New York, N. Y. Bagging for cotton	13,628	Aug. 31	36	944
Aumonier, Frederic, London, England. Paper-hangings and wall-coverings	13,228	Apr. 27	35	390
Austen & Co., W. J., Oswego, N. Y. Remedy for kidney and liver complaints	13,227	Apr. 27	35	390
Austen & Co., W. J., Oswego, N. Y. Remedy for neuralgia, rheumatism, &c., for external use	13,279	May 11	35	631
Austin, Drew & Co., New York, N. Y. Hats for men and boys	13,450	June 29	35	1440
Aydelott, James M., Baltimore, Md. Cigars	13,369	June 8	35	1116
Ayer, Harriet H., New York, N. Y. Cosmetic	13,310	May 18	35	754
Ayres & Sons, William, Philadelphia, Pa. Horse blankets, covers, and nets, and saddle-housings, lap-robes, and lap-dusters	13,595	Aug. 24	36	824

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Babcock Printing Press Manufacturing Company, New London, Conn. Printing-presses	13,201	Apr. 29	35	260
Badger Basket Manufacturing Company, Wevauwega, Wis. Baskets	13,653	Sept. 14	36	1154
Badische Anilin & Soda-Fabrik, Mannheim, Baden, Germany. Dye-stuffs or coloring-matters	13,870	Dec. 14	37	1128
Badische Anilin & Soda-Fabrik, Mannheim, Baden, Germany. Pigment colors	13,871	Dec. 14	37	1128
Badische Anilin & Soda-Fabrik, Mannheim, Baden, Germany. Medical drugs	13,872	Dec. 14	37	1128
Bailey, Harry, Philadelphia, Pa. Certain-named hair tonic or wash	12,994	Feb. 2	34	440
Baldwin & Co., B. D., Chicago, Ill. Perfumery, cosmetics, sachet-powders, dentifrices, and hair-dressings	13,745	Oct. 19	37	222
Baldwin & Co., B. D., Chicago, Ill. Perfumery, cosmetics, sachet-powders, dentifrices, and hair-dressings	13,776	Nov. 2	37	458
Bances & Suarez, Havana, Cuba. Cigars	13,154	Apr. 6	35	2
Banks & Co., H. W., New York, N. Y. Teas	13,172	Apr. 13	35	140
Banks & Co., H. W., New York, N. Y. Oolong teas	13,262	Apr. 20	35	260
Banks & Co., H. W., New York, N. Y. Oolong teas	13,326	May 25	35	878
Barker & Company, C. B., (Limited,) New York, N. Y. Scissors, shears, razors, and pocket and table cutlery	13,506	July 29	36	236
Barnes, Howard C., Boston, Mass. Violin, banjo, and guitar strings	13,795	Nov. 9	37	570
Barney, Everett H., Springfield, Mass. Roller and ice skates	13,596	Aug. 24	36	824
Barney, Everett H., Springfield, Mass. Roller and ice skates	13,597	Aug. 24	36	824
Barney Mycoleum Company, Portsmouth, N. H. Perfumery	13,629	Aug. 31	36	944
Barse, Mills W. (See Moore and Barse.)				
Bauernschmidt & Marr, Baltimore, Md. Beer, ale, porter, and stout	12,933	Jan. 12	34	134
Bay State Corset Company, West Brookfield, Mass. Corsets	12,911	Jan. 5	34	2
Bay State Corset Company, West Brookfield, Mass. Corsets	12,912	Jan. 5	34	2
Bay State Pharmacal Co., Fitchburg, Mass. A healthful beverage and nerve stimulant	13,711	Oct. 12	37	101
Baya, Joseph F., and G. O. Adicks, Lake City, Fla. Yeast-cakes	13,914	Dec. 21	37	1252
Beatty Starch Company, New Haven, Conn. Starch for laundry purposes	13,083	Mar. 9	34	1050
Beck, Charles, Baltimore, Md. Carbonated beverage	13,579	Aug. 17	36	696
Beck & Co., August, Chicago, Ill. Combined smoking and chewing tobacco	13,578	Aug. 17	36	696
Beck & Company, August, Chicago, Ill. Smoking-tobacco	13,155	Apr. 6	35	2
Becker, Frederick, Baltimore, Md. Cigars	13,732	Oct. 19	37	221
Behr & Co., Herman, New York, N. Y. Abrasive paper	13,203	Apr. 20	35	260
Behr & Co., Herman, New York, N. Y. Abrasive paper	13,451	June 29	35	1440
Bell Manufacturing Company, R. W., Buffalo, N. Y. Laundry and toilet soap and soap-powders	13,363	June 1	35	1006
Bell Manufacturing Company, R. W., Buffalo, N. Y. Laundry and toilet soap and soap-powders	13,444	June 22	35	1342
Bell Manufacturing Company, R. W., Buffalo, N. Y. Laundry and toilet soap and soap-powders	13,445	June 22	35	1342
Bemis & Fletcher, Worcester, Mass. Boots and shoes	13,608	Aug. 24	36	824
Benedict & Co., S. H., Cleveland, Ohio. Carpet-tacks	13,280	May 11	35	631
Benedict, James W., Port Huron, Mich. Cut plug smoking-tobacco	13,609	Aug. 24	36	824
Benger Soehne, Wilhelm, Stuttgart, Würtemberg, Germany. Under-garments for men, women, and children	13,464	June 29	35	1440
Benjamin, Joseph, Elmira, N. Y. Butternut taffy and nut candy	13,654	Sept. 14	36	1154
Benoist, F., & L. Berthiot, Paris, France. Optical goods of all kinds	13,394	Apr. 20	35	260
Bergner & Engel Brewing Company, Philadelphia, Pa. Malt liquors	13,890	Dec. 21	37	1252
Berry & Co., R. Providence, R. I. Knitted underwear	13,156	Apr. 6	35	2
Besly & Co., Charles H., Chicago, Ill. Machine-grease or solid oil	13,471	July 6	36	2
Bigelow & Co., Moses, Newark, N. J. Japan varnish	13,515	July 20	36	236
Birch, William, Broughton, Salford, County of Lancaster, England. Machines used in the various processes of printing and finishing textile fabrics	13,386	June 15	35	1231
Blackstone, Frederick M., Philadelphia, Pa. Boots and shoes for men, women, and children	13,257	May 4	35	504
Blakeslee, Elson, and J. E. Darby, Cleveland, Ohio. Prepared chamois-skins for polishing metal	13,044	Feb. 23	34	830
Blakeslee Manufacturing Company, Du Quoin, Ill. Steam siphon-pumps and injecting and ejecting pumps	13,752	Oct. 26	37	342
Blatchford, Eliphalet W., and N. H., Chicago, Ill. Composition stock-food	13,205	Apr. 20	35	260
Blatchford, Nathaniel H. (See Blatchford, Eliphalet W. and N. H.)				
Blodgett & Osgood, St. Paul, Minn. Refrigerators	13,104	Mar. 16	34	1162
Blood Balm Company, Atlanta, Ga. Botanic blood balm	13,045	Feb. 23	34	830
Boardman & Gray, Albany, N. Y. Pianos	13,387	June 15	35	1231
Bobst, Samuel S. (See Miller and Bobst.)				
Bodin, John, St. Paul, Minn. Hair-tonic	13,917	Dec. 28	37	1360
Boker & Co., Hermann, New York, N. Y. Shotguns	13,736	Oct. 19	37	222
Bolton, Francis, Westminster, county of Middlesex, England. Chemical fire-extinguishers called hand-grenades	13,258	May 4	35	504
Bonbright, William P. (See Edwards and Bonbright.)				
Bond, Charles, Buffalo, N. Y. Ointment	13,712	Oct. 12	37	104
Boone, Thomas R., Rochester, N. Y. Overcoats, undercoats, pants, and vests	13,571	Aug. 17	36	696
Booth & Kent, New York and Gloversville, N. Y. Shoe and glove leather	13,046	Feb. 23	34	830
Boott Cotton Mills, Lowell, Mass. Cotton goods	13,341	June 1	35	1006
Boss, Carl. (See Brandt and Boss.)				
Boston Rubber Company, Boston, Mass. Mechanical rubber goods	13,281	May 11	35	631
Boston Rubber Company, Boston, Mass. Rubber goods	13,918	Dec. 28	37	1360
Boston Rubber Company, Boston, Mass. Rubber goods	13,919	Dec. 28	37	1360
Boyce, William W., Baltimore, Md. Liniment	13,472	July 6	36	2
Boyer, John M. (See Riley and Boyer.)				
Boyle, Henry. (See Boyle, John T. and H.)				
Boyle, John T. and H., Fond du Lac, Wis. Yeast-cakes	13,572	Aug. 17	36	696
Bradley, J. Payson, Boston, Mass. Lamps	12,980	Feb. 2	34	440
Bragdon, Rufus H., New York, N. Y. Various geometric forms made of copper and lacquered or enameled to simulate jewels	12,978	Feb. 2	34	440
Bragdon, Rufus H., New York, N. Y. Colored powder of the nature of flock	12,979	Feb. 2	34	440
Bragdon, Rufus H., New York, N. Y. Colors for glass painting, and a powder in the nature of flock, called "Plushette"	13,700	Nov. 9	37	570
Brandt, Rudolph, and C. Boss, Chester, S. C. Lubricating-oil for watches, chronometers, and clocks	13,173	Apr. 13	35	140
Brinkman, A. H., Baltimore, Md. Bustles	13,206	Apr. 20	35	260
Brodhurst, Vincent, Bloxwich, England. Stirrups and bridle-bits	13,920	Dec. 28	37	1360
Brokaw, William B., Newburg, N. Y. Shirts and shirt-waists	12,952	Jan. 19	34	254
Brooklyn Watch Case Company, Brooklyn, N. Y. Watch-cases	13,282	May 11	35	632
Brooklyn Watch Case Company, Brooklyn, N. Y. Watch-cases	13,283	May 11	35	632
Brooks, John H. (See Brooks, William C. and J. H.)				
Brooks, William C. and J. H., Chicago, Ill. Felt boots	13,129	Mar. 30	34	1394
Broom Makers' Protective Union, Baltimore, Md. Brooms	13,818	Nov. 23	37	788
Brown Chemical Company of Baltimore City, Baltimore, Md. Bitters	13,459	June 29	35	1440
Brown & Co., J. Morton, Norristown, Pa. Cotton and woolen cassimeres	12,943	Jan. 12	34	134
Brown Manly Plow Company, Malta and Columbus, Ohio. Plows	13,781	Nov. 2	37	458

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Brown, Simon V. B. (See Hausman and Brown.)				
Brunner, Mond & Co., (limited,) Winnington, near Northwich, county of Chester, England. Alkalies, acids, and salts used industrially	13,834	Nov. 30	37	896
Buerkel & Co., Boston, Mass. Steam-boilers	13,619	Aug. 31	36	944
Buffalo Co-Operative Brewing Company, Buffalo, N. Y. Beer	13,516	July 20	36	236
Buhrman, George W., Cincinnati, Ohio. Self-raising flour	13,915	Dec. 21	37	1252
Burnet, William, New York, N. Y. Refined lard	13,382	June 8	35	1116
Burnet, William H., Chicago, Ill., New York, N. Y., St. Louis, Mo., and Omaha, Nebr. Refined lard	13,529	July 27	36	350
Bushy, Nahum J., Maplewood, Mass. Call-bells and alarms for house-doors	13,733	Oct. 19	37	221
Butler Bros., New York, N. Y. Catalogues	12,934	Jan. 12	34	134
Butler Bros., New York, N. Y. Catalogues	12,935	Jan. 12	34	134
Butler, Gardiner S., Minneapolis, Minn. Clothes and furnishing goods for men and boys	13,485	July 13	36	124
Button & Ottley, New York, N. Y. Dressing, polish, or blacking for shoes or leather	13,062	Mar. 2	34	926
Cabot, Samuel, Boston, Mass. Wood and shingle stains	13,002	Feb. 9	34	564
Cahn, Belt & Co., Baltimore, Md. Whisky	13,813	Nov. 23	37	788
Cahn, Belt & Co., Baltimore, Md. Whisky	13,814	Nov. 23	37	788
California Wire Works, San Francisco, Cal. Barbed wire	13,847	Dec. 7	37	1006
Campion & Co., J. W., Philadelphia, Pa. Toilet-soap	13,713	Oct. 12	37	104
Canfield Rubber Company, Bridgeport, Conn., and New York, N. Y. Bustles	13,707	Oct. 5	37	2
Canfield Rubber Company, Bridgeport, Conn., and New York, N. Y. Bustles	13,708	Oct. 5	37	2
Canfield Rubber Company, Bridgeport, Conn. Bustles	13,772	Nov. 2	37	458
Cargemel, Jules. (See Stiegler and Cargemel.)				
Carter & Churchill, Lebanon, N. H. Overalls	13,105	Mar. 16	34	1162
Carter, Hawley & Co., New York, N. Y. Japan tea	12,981	Feb. 2	34	440
Carter, Hawley & Co., New York, N. Y. Japan tea	12,990	Feb. 2	34	440
Carter, Hawley & Co., New York, N. Y. Japan tea	13,084	Mar. 9	34	1050
Carter, Hawley & Co., New York, N. Y. Japan tea	13,085	Mar. 9	34	1050
Cartier-Bresson, Les Fils de, Paris, France. Cotton thread	13,357	June 1	35	1006
Case Brothers, South Manchester, Conn. Mineral-spring water	13,827	Nov. 23	37	788
Cassard & Son, G., Baltimore, Md. Lard	13,375	June 8	35	1116
Cater, Richard B., Bath, county of Somerset, England. Aerated water	12,913	Jan. 5	34	2
Central Milling Company, Niagara Falls, N. Y. Wheat-flour	12,914	Jan. 5	34	2
Chadwick & Brother, James, Eagley Mills, near Bolton, county of Lancaster, England. Thread on spools	12,964	Jan. 26	34	344
Chadwick & Brother, James, Eagley Mills, near Bolton, county of Lancaster, England. White and colored thread on spools	12,965	Jan. 26	34	344
Chadwick & Brother, James, Eagley Mills, near Bolton, county of Lancaster, England. White and colored cotton thread on spools	12,966	Jan. 26	34	344
Chadwick & Brother, James Eagley Mills, near Bolton, county of Lancaster, England. White and colored cotton thread on spools	12,967	Jan. 26	34	344
Cheesman, William, Detroit, Mich. Dandruff-cure	13,208	Apr. 20	35	260
Chesapeake Belting Co., Baltimore, Md. Belting of canvas, duck, and woven cotton	13,848	Dec. 7	37	1006
Chester Oil Company, Philadelphia, Pa. Refined petroleum for illuminating purposes	13,815	Nov. 23	37	788
Chicago Varnish Company, Chicago, Ill. Surfacers, japans, stains, paints, and varnishes	12,968	Jan. 26	34	344
Chicago Varnish Company, Chicago, Ill. Varnishes, stains, japans, surfacers, and kindred goods	12,982	Feb. 2	34	440
Chicago Varnish Company, Chicago, Ill. Varnishes, stains, japans, surfacers, and kindred goods	12,983	Feb. 2	34	440
Chicago Varnish Company, Chicago, Ill. Varnishes, stains, japans, surfacers, and kindred goods	12,984	Feb. 2	34	440
Chicago Varnish Company, Chicago, Ill. Varnishes, stains, japans, surfacers, and kindred goods	12,985	Feb. 2	34	440
Chicago Varnish Company, Chicago, Ill. Varnishes, stains, japans, surfacers, and kindred goods	13,158	Apr. 6	35	2
Chichester Chemical Company, Philadelphia, Pa. Pennyroyal pills	13,589	Aug. 24	36	824
Church Company, John, Cincinnati, Ohio. Square and upright pianos	13,718	Oct. 12	37	104
Clark, Charles E., Philadelphia, Pa. Liniment	13,130	Mar. 30	34	1394
Clark, James, Cumberland, Md. Whisky	13,460	June 29	35	1440
Clarke, Samuel, Pyramid Works, London, England. Lamps, candle-holders, candles, and night-lights	13,031	Feb. 16	34	704
Clausen & Son Brewing Company, H., New York, N. Y. Beer	12,986	Feb. 2	34	440
Cleveland Target Company, Cleveland, Ohio. Flying or so-called bird targets	13,709	Oct. 5	37	2
Clewley, William H., Brooklyn, N. Y. Medicine for the cure of rheumatism, to be taken internally	13,063	Mar. 2	34	926
Climax Fuse Company, Avon, Conn., and New York, N. Y. Safety-fuse for exploding gunpowder, &c	12,987	Feb. 2	34	440
Cockrell & Co., Sarah H., Dallas, Tex. Flour	13,560	Aug. 10	36	574
Coelln, C. V., St. Louis, Mo. Pills for the cure of rheumatism and gout	13,428	June 22	35	1342
Cohen, Julius, New York, N. Y. Cordials	13,680	Sept. 21	36	1250
Cohn, Moritz, New York, N. Y. Corset-steels	13,906	Dec. 31	37	1252
Colby & Buskirk, Dowagiac, Mich. Preparation of wheat for cooking purposes	13,284	May 11	35	632
Coldewey, Aug., Louisville, Ky. Whisky	13,630	Feb. 16	34	704
Coleman & Co., William T., San Francisco, Cal. Preserved fruits	13,863	Dec. 14	37	1127
Colgate & Co., New York, N. Y. Perfumery and soap	13,342	June 1	35	1006
Collins, Benjamin, Wellfleet, Mass. Combination of vegetable oils forming a balsam	13,343	June 1	35	1006
Colman, J. & J., London, England. Mustard-oil	13,591	Dec. 21	37	1252
Columbia Mill Company, Minneapolis, Minn. Wheat-flour	13,429	June 22	35	1342
Columbia Mill Company, Minneapolis, Minn. Wheat-flour	13,430	June 22	35	1342
Columbia Mill Company, Minneapolis, Minn. Wheat-flour	13,796	Nov. 9	37	570
Compania Vinicola del Norte de España, Bilbao, Spain. Wines	13,570	Aug. 10	36	574
Compton, William H., Cleveland, Ohio. Lubricating-oil	13,746	Oct. 19	37	232
Conrad & Co., C., Mainz, Geisenheim-on-the-Rhine, Germany, and St. Louis, Mo. Lager-beer	13,064	Mar. 2	34	926
Cook & Co., J. B., Kerrville, Tex. Medicine for the treatment of coughs, colds, consumption, and catarrh	13,435	June 22	35	1342
Cooke, G. K., New York, N. Y. Gas-burners	13,921	Dec. 28	37	1360
Cooley, Martin L., New York, N. Y. Woven fabrics	13,285	May 11	35	632
Co-Operative Foundry Company, Rochester, N. Y. Cooking-stoves, ranges, and furnaces	13,792	Nov. 9	37	570
Corr, E. A. & C. A., Philadelphia, Pa. Turkish towels	13,376	June 8	35	1116
Coughlin, Peter R. J., New York, N. Y. Boys' hats	13,047	Feb. 23	34	830
Cowan, Archibald S., Chicago, Ill. Lotion or liniment	13,639	Sept. 7	36	1048
Cramer & Canfield, G., New York, N. Y. Buttons	13,828	Nov. 23	37	788
Crescent Watch Case Company, Brooklyn, N. Y. Watches and watch-cases	13,816	Nov. 23	37	788
Crofut & Co., E. B., Syracuse, N. Y. Shelled corn	13,106	Mar. 16	34	1162
Crosse & Blackwell, Soho Square, county of Middlesex, England. Pickles	13,580	Aug. 17	36	696
Crosse & Blackwell, Soho Square, county of Middlesex, England. Pickles	13,619	Sept. 7	36	1048
Crosse & Blackwell, Soho Square, county of Middlesex, England. Sauce	13,922	Dec. 28	37	1360
Curran & Goler, Rochester, N. Y. Tooth-paste and tooth-wash	13,854	Dec. 7	37	1006
Cutting, Robert S., Providence, R. I. Lever-buttons for sleeves and collars	13,174	Apr. 13	35	146

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Dadelszen, Evan M., Bordeaux, France. Sardines, dried prunes, and preserved peas	13,452	June 29	35	1440
Damon & Co., A. F., Philadelphia, Pa. Coffee	13,640	Sept. 7	36	1048
Dane, Grinnell & Co., J. F., Boston, Mass. Shoes	13,829	Nov. 23	37	788
Dansby, Robert C., Terrell, Tex. Tonic or bitters	13,671	Sept. 21	36	1250
Darby, John E. (See Blakeslee and Darby.)				
Darlington, Runk & Co., Philadelphia, Pa. Black and other dress silks	13,753	Oct. 26	37	342
David, Thomas B. A., Pittsburg, Pa. Boring-machines	13,229	Apr. 27	35	390
Davis Brothers, Chicago, Ill. Cigars	13,209	Apr. 20	35	260
Davis & Co., Curtis, Cambridge and Boston, Mass. Laundry-soap	13,817	Nov. 23	37	788
Dawson, Martin, Chicago, Ill. Candy	13,032	Feb. 16	34	704
De Bernales, M. E. A., New York, N. Y. Liquid fire-proof paint	13,892	Dec. 21	37	1252
De James, Plagniol. (See Gounelle, A.)				
Delano, William H., Paris, France. Asphaltum cakes or blocks	13,655	Sept. 14	36	1154
Demuth & Co., William, New York, N. Y. Pipes, pipe-stems, and cigar-holders	13,033	Feb. 16	34	704
Densmore, Emmet and H., New York, N. Y. Herb medicine	13,656	Sept. 14	36	1154
Densmore, Helen. (See Densmore, Emmet and H.)				
Diamond, Charles A., Buffalo, N. Y. Certain family medicines named	13,754	Oct. 26	37	342
Diamond, Nettie M. (See Grover and Diamond.)				
Dill, Joseph G., Richmond, Va. Chewing-tobacco in plug or other form, smoking-tobacco, cigars, and cigarettes	13,004	Feb. 9	34	564
Dillern & Ackermann, New York, N. Y. Soap in cakes or bars	13,065	Mar. 2	34	926
Doane & Co., J. W., Chicago, Ill. Tea	13,830	Nov. 23	37	788
Dodge & Co., W. D., Olean, N. Y. Dodge's clarified petroleum carriage-top dressing	13,923	Dec. 28	37	1360
Dodge Manufacturing Company, Mishawaka, Ind. Belt-pulleys	13,779	Nov. 2	37	458
Dolge, Carl B., Brooklyn, N. Y. Embalming-fluid	13,532	Aug. 3	36	460
Doulton & Co., Lambeth, county of Surrey, and Burslem, county of Stafford, England. Earthenware and china	13,880	Dec. 14	37	1128
Downing Cigar Manufacturing Company, Baltimore, Md. Cigars, cigarettes, manufactured tobacco, and snuff	13,311	May 18	35	754
Drewry, Sarah A., New York, N. Y. Anatomical health-corsets and other named health and surgical appliances	13,210	Apr. 20	35	260
Drinkhouse, John A., San Francisco, Cal. Plug-tobacco for chewing or smoking	13,211	Apr. 20	35	260
Drysdale & Co., Thomas, Buenos Ayres, Argentine Republic, and New York, N. Y. Extract of tobacco	13,473	July 6	36	2
Drysdale & Co., Thomas, Buenos Ayres, Argentine Republic, and New York, N. Y. Cutlery, hardware, and agricultural implements	13,474	July 6	36	2
Du Plaine, Edmond A. C., Chicago, Ill. Certain metallic alloys and metals used for anti-friction purposes	13,388	June 15	35	1231
Dubos Frères, Bordeaux, France. Bordeaux red (claret) or white wines and cognac brandies	13,714	Oct. 12	37	104
Duffy Malt Whiskey Company, Baltimore, Md. Malt bitters	13,682	Sept. 21	36	1250
Duke & Mills, Duke Centre, Pa. Liniment for outward application	13,286	May 11	35	632
Duke Sons & Company, W., Durham, N. C. Cigars, cigarettes, and smoking and chewing tobacco	13,119	Mar. 23	34	1280
Dunlop & McCance, Richmond, Va. Wheat-flour	13,034	Feb. 16	34	704
Dunlop & McCance, Richmond, Va. Wheat-flour	13,035	Feb. 16	34	704
Dunlop & McCance, Richmond, Va. Wheat-flour	13,036	Feb. 16	34	704
Dunlop & McCance, Richmond, Va. Wheat-flour	13,037	Feb. 16	34	704
Dunn & Co., John N., Atlanta, Ga. Fancy flour	13,734	Oct. 19	37	221
Dunn, John, New York, N. Y. Shovels and spades	13,259	May 4	35	504
Dunn, John, New York, N. Y. Shovels and spades	13,260	May 4	35	504
Dunn, John, New York, N. Y. Cotton duck	13,344	June 1	35	1006
Dunn, John, New York, N. Y. Edge-tools	13,345	June 1	35	1006
Dunn, John, New York, N. Y. Agricultural implements	13,346	June 1	35	1006
Dunn, John, New York, N. Y. Cotton duck	13,436	June 22	35	1342
Dunn, John, New York, N. Y. All descriptions of edge-tools	13,437	June 22	35	1342
Dunn, John, New York, N. Y. Agricultural implements	13,438	June 22	35	1342
Dunn, John, New York, N. Y. Extract of tobacco	13,461	June 29	35	1440
Durable Printers' Roller Company, (Limited,) London, county of Middlesex, England. Composition for covering printers' rollers	13,466	July 6	36	2
Durable Printers' Roller Company, (Limited,) London, county of Middlesex, England. Composition for covering printers' rollers	13,481	July 6	36	2
Durrua, Hiram A., Mariner's Harbor, N. Y. Lotion for the skin	13,347	June 1	35	1006
Durrua, Hiram A., Mariner's Harbor, N. Y. Blood-purifying medicine	13,405	June 15	35	1232
Eagle Pencil Company, New York, N. Y. Lead-pencils and pen-holders	13,657	Sept. 14	36	1154
Eastman, James D., Deer Lodge, Mont. Ter. Tonic or bitters	13,641	Sept. 7	36	1048
Eckman & Peterson, Philadelphia, Pa. Canned fruits, vegetables, fish, &c	13,658	Sept. 14	36	1154
Edwards, Henry W., and W. P. Bonbright, Philadelphia, Pa. Certain named game	13,175	Apr. 13	35	140
Eggeman, C. Rudolph, Detroit, Mich. Catarrh remedy	13,598	Aug. 24	36	824
Eggemann, Pauline R., A. R. Jacobi, A. R. Erichsen, and A. Schremser, Detroit, Mich. Catarrh remedy	13,630	Aug. 31	36	944
Eight Hour Tobacco Company, Quincy, Ill. Plug, fine-cut, and smoking tobacco and snuff	13,348	June 1	35	1006
Eight Hour Tobacco Company, Quincy, Ill. Plug and fine-cut chewing and smoking tobacco and snuff	13,349	June 1	35	1006
Einhorn, Isaac, New York, N. Y. Cotton and silk on spools, yarns, and twists	13,855	Dec. 7	37	1006
Einhorn, Isaac, New York, N. Y. Cotton and silk on spools, yarns, buttons, tapes, braids, and twists	13,856	Dec. 7	37	1006
Einstein & Co., Chicago, Ill. Gents' and children's suits and overcoats	13,107	Mar. 16	34	1162
Elder, C. S. (See Pike and Elder.)				
Elstroth, George H., Brooklyn, N. Y. Salve	13,590	Aug. 24	36	824
Ely & Ramsay, New York, N. Y. Stoves, ranges, heaters, and furnaces	13,755	Oct. 26	37	342
Embossing Oil Company, Danbury, Conn. Varnish	13,893	Dec. 21	37	1252
Empire Soap Company, St. Louis, Mo. Laundry and toilet soap	12,995	Feb. 2	34	440
Empire Soap Company, St. Louis, Mo. Laundry and other soaps	13,048	Feb. 23	34	830
Empire Soap Company, St. Louis, Mo. Laundry and other soaps	13,049	Feb. 23	34	830
Empire Soap Company, St. Louis, Mo. Laundry and other soap	13,747	Oct. 19	37	222
Engelke & Feiner, St. Louis, Mo. Wheat-flour, cornmeal, pearl meal, and pearl grits	13,517	July 20	36	236
Engelman, Frank E., Philadelphia, Pa. Cure for nasal catarrh, cold, and hay-fever	12,915	Jan. 5	34	2
Eppstein & Co., E., Sherman, Tex. Whisky known as Kentucky sour mash	13,462	June 29	35	1440
Erichsen, Amalie R. (See Eggemann, Jacobi, Erichsen, and Schremser.)				
Escher, C. Schindler, Zurich, Switzerland. Bolting-cloth	13,581	Aug. 17	36	696
Evans, Cornelius H., Hudson, N. Y. Ale	13,066	Mar. 2	34	926
Fairbank & Company, N. K., Chicago, Ill. Laundry-soap	12,916	Jan. 5	34	2
Fairbank & Company, N. K., Chicago, Ill. Family soap	13,176	Apr. 13	35	140
Fairbank & Company, N. K., Chicago, Ill. Family soap	13,287	May 11	35	632
Fairbank & Company, N. K., Chicago, Ill. Family soap	13,582	Aug. 17	36	696

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Official Gazette. Page.
Fairbank & Company, N. K., Chicago, Ill., New York, N. Y., St. Louis, Mo., and Omaha, Nebr. Family soap	13,495	July 13	36	124
Fairbank & Company, N. K., Chicago, Ill., St. Louis, Mo., New York, N. Y., and Omaha, Nebr. Soap	13,545	Aug. 3	36	460
Fairchild Brothers & Foster, New York, N. Y. Digestive preparation	13,159	Apr. 6	35	2
Fayen, W. B., New York, N. Y. Vinous essence consisting of medicinal herbs and flowers extracted and refined with wine and alcohol	13,659	Sept. 14	36	1154
Fischler & Co., Philadelphia, Pa. Polishing-powder for metal, glass, &c	12,996	Feb. 2	34	440
Fels & Co., Philadelphia, Pa. Soap for antiseptic and disinfecting purposes	13,839	Nov. 30	37	896
Ferrer, Joaquin F., New York, N. Y. Wheat-flour	13,406	June 15	35	1232
Ferrer, Joaquin F., New York, N. Y. Wheat-flour	13,407	June 15	35	1232
Ferrer, Joaquin F., New York, N. Y. Wheat-flour	13,408	June 15	35	1232
Ferrer, Joaquin F., New York, N. Y. Wheat-flour	13,409	June 15	35	1232
Ferrer, Joaquin F., New York, N. Y. Beer	13,620	Aug. 31	36	944
Ferris Bros., New York, N. Y. Underwear for adults and children of both sexes	13,573	Aug. 17	36	696
Fetterman, N. P., Pittsburg, Pa. Bronchial cough-sirup	13,660	Sept. 14	36	1154
Fidler, Jacob. (See Shanahan and Fidler.)				
Finck & Son, A., New York, N. Y. Lager-beer	13,735	Oct. 19	37	221
Finkler & Co., Godramstein, Germany. Medicinal preparations from carica papaïa, (melon-tree)	13,642	Sept. 7	36	1048
Fischer, J. & C., New York, N. Y. Grand, square, and upright pianos	13,584	Aug. 17	36	696
Fischer, Julius A., Atlanta, Ga. Cough remedies	13,177	Apr. 13	35	140
Fish, William L., Newark, N. J. Salve	13,574	Aug. 17	36	696
Fiske Brothers, New York, N. Y. Lubricating-oil	13,924	Dec. 28	37	1360
Flagg Cutlery Company, (limited,) New York, N. Y. Pocket knives, shears, scissors, and razors	13,050	Feb. 23	34	830
Flagg Cutlery Company, (limited,) New York, N. Y. Razors and razor-strops	13,410	June 15	35	1232
Flagg Cutlery Company, (limited,) New York, N. Y. Razors and razor-strops	13,411	June 15	35	1232
Flagg Cutlery Company, (limited,) New York, N. Y. Razors	13,583	Aug. 17	36	696
Flannery, Dennis, Cleveland, Ohio. Bitters	13,350	June 1	35	1006
Fleming Bros., Pittsburg, Pa. Cologne	13,873	Dec. 14	37	1128
Fletcher Manufacturing Company, Providence, R. I. Laces for corsets and boots and shoes	13,351	June 1	35	1006
Fletcher Manufacturing Company, Providence, R. I. Laces for boots, shoes, and corsets, and plain and ornamental braids for binding and trimming fabrics	13,412	June 15	35	1232
Focht & Co., D., Philadelphia, Pa. Washing compounds in the form of powder	13,487	July 13	36	124
Foerster & Co., William, New York, N. Y., and Hamburg, Germany. Mohair-plush	13,131	Mar. 30	34	1394
Foley, James, and J. R. Poor, Boston, Mass. Wine	13,108	Mar. 16	34	1162
Fones Brothers, Little Rock, Ark. Cooking and heating stoves	13,377	June 8	35	1116
Fontanel, Jean B., Chicago, Ill. Imported French wines and champagnes	12,917	Jan. 5	34	2
Foote, Charles E., and C. C. Jenks, Jackson, Mich. Soaps, lotions, cosmetics, toilet-powders, bandolines, and toilet-waters	13,178	Apr. 13	35	140
Foote, J. Howard, Brooklyn, N. Y. Musical instruments of all kinds	13,696	Sept. 28	36	1360
Ford Acme Renovator Company, Baltimore, Md. Saponaceous cleansing compound	13,142	Mar. 30	34	1394
Foulds & Son, Thomas, Trevorton, Pa. Bitters	13,067	Mar. 2	34	926
Fountain, William C. (See Kerley and Fountain.)				
Fowler & Co., George, Liverpool, county of Lancaster, England. Hog products	13,787	Nov. 9	37	570
Fowler, William, New York, N. Y. Punch	12,918	Jan. 5	34	2
Fox River Butter Company, Aurora and Oswego, Ill. Butter	13,643	Sept. 7	36	1048
Fox Starch Company, George, Cincinnati, Ohio. Starch for laundry purposes	13,453	June 29	35	1440
Freiberg Bros., Cincinnati, Ohio. Mixture of ingredients to be commingled with milk to compose a punch	13,610	Aug. 24	36	824
Freud, J. Richard, New York, N. Y. Corsets	13,894	Dec. 21	37	1252
Fries, Valentine. (See Weideman, Holmes, and Fries.)				
Fry, George T., Atlanta, Ga. Liquid specific for heart disease	13,774	Nov. 2	37	458
Fryer, Derrick F., Oroville, Cal. A bietene or extract from the gum of pinus sabiniana	12,919	Jan. 5	34	2
Fuller & Warren Company, Troy, N. Y., Chicago, Ill., and Cleveland, Ohio. Stoves, furnaces, and ranges	13,425	June 15	35	1232
Gail & Ax, G. W., Baltimore, Md. Smoking and chewing tobacco	13,388	May 11	35	632
Gail & Ax, G. W., Baltimore, Md. Smoking and chewing tobacco	13,650	Sept. 7	36	1048
Gallais & Co., A., Paris, France. Furniture-nails	12,969	Jan. 26	34	344
Gally, Merritt, New York, N. Y. Printing and embossing presses	13,179	Apr. 13	35	140
Gambrill Sons & Co., Baltimore and Woodbury, Md. Duck	12,955	Jan. 19	34	254
Garrett & Son, C. S., Philadelphia, Pa. Building or roofing paper	13,895	Dec. 21	37	1252
Garwood, William C., Evanston, Ill. Perfumes, colognes, extracts, and kindred goods	13,439	June 22	35	1342
Garr Manufacturing Company, Baltimore, Md. Awning-stripes—a woven cotton fabric	13,005	Feb. 9	34	564
Gato, Eduardo H., Key West, Fla. Cigars	13,212	Apr. 20	35	260
Gelpi & Bro., Paul, New Orleans, La. Cigars	13,068	Mar. 2	34	926
Geoffroy Frères, Paris, France. Buckles	13,261	May 4	35	504
Gifford, William, Chicago, Ill. Compound for the treatment of piles	13,327	May 25	35	878
Gilbert, Jabez C., assignor to himself, G. N. Joyce, Brooklyn, N. Y., and F. G. Osborn, Newark, N. J. Tonic beverages	13,328	May 25	35	878
Gilbertson & Company, W., (limited) near Swansea, England. Tin plates, terne plates, and black plates	13,631	Aug. 31	36	944
Gilbertson & Co., W., (limited.) near Swansea, England. Tin plates, terne plates, and black plates	13,874	Dec. 14	37	1128
Gill, William F., Richmond, Va. Medicine for purifying the blood	13,312	May 18	35	754
Girardeau, Alexander B., and B. W. Johnson, Monticello, Fla. Medicine for the cure of chills and fever	12,997	Feb. 2	34	440
Giron Frères, Saint-Etienne, France. Velvet ribbons	13,756	Oct. 26	37	342
Giron Frères, Saint-Etienne, France. Velvet ribbons	13,757	Oct. 26	37	342
Glaccum, William, New York, N. Y. Cigars, cigarettes, and smoking and chewing tobacco	13,533	Aug. 3	36	460
Glass, Hoafmyre & Co., New York, N. Y. Gentlemen's white and figured shirts	13,661	Sept. 14	36	1154
Goodyear Rubber Company, New York, N. Y. Rubber boots and shoes and other articles of clothing	12,988	Feb. 2	34	440
Goodyear Rubber Company, New York, N. Y. Rubber interment-sacks	13,069	Mar. 2	34	926
Gould, Renben B. H., East Cambridge, Mass. Engine and pump packing	13,426	June 15	35	1232
Gounelle, A., trading as Plagniol de James, Marseilles, France. Olive-oil	13,798	Nov. 16	37	678
Gounelle, A., trading as Plagniol de James, Marseilles, France. Olive-oil	13,799	Nov. 16	37	678
Gounelle, A., trading as Plagniol de James, Marseilles, France. Olive-oil	13,800	Nov. 16	37	678
Gounelle, A., trading as Plagniol de James, Marseilles, France. Olive-oil	13,801	Nov. 16	37	678
Gounelle, A., trading as Plagniol de James, Marseilles, France. Olive-oil	13,802	Nov. 16	37	678
Grace & Co., W. R., New York, N. Y. Refined petroleum	13,132	Mar. 30	34	1394
Gradle & Strotz, Chicago, Ill. Smoking-tobacco	13,835	Nov. 30	37	896
Graf, John, Milwaukee, Wis. Mineral waters and effervescing beverages	13,329	May 25	35	878
Graham Bros. & Co., Chicago, Ill. Fine scented and medicinal soaps	13,518	July 20	36	236
Graham Bros. & Co., Chicago, Ill. Toilet-soap	13,849	Dec. 7	37	1006
Granger, Warren, St. Paul, Minn. Coffee	13,662	Sept. 14	36	1154

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Graves & Reifert, Rome, N. Y. Medical compound	13,896	Dec. 21	37	1252
Graves & Sons, C. H., Boston, Mass. Remedy for indigestion	13,715	Oct. 12	37	104
Gray & Co., W. T., Winston, N. C. Smoking-tobacco	13,467	July 6	36	2
Greenway Brewing Company, Syracuse, N. Y. Ale, porter, and stout	13,006	Feb. 9	34	564
Greene, Tweed & Co., Brooklyn, N. Y. Machine-belt fasteners	13,831	Nov. 23	37	788
Greenwood, Alfred W., Fall River, Mass. Wearing-plates for boots and shoes	13,926	Dec. 28	37	1360
Greve & Uhl, Osterode, Prussia, Germany. Coverlets and rugs of sheep's wool, camels', and other animals' hair	13,352	June 1	35	1006
Grover, Albert B., and N. M. Diamond, Rochester, N. Y. Compound of herbs, barks, and roots for the cure of consumption, bronchitis, asthma, &c	13,330	May 25	35	878
Gross, Andrew, New York, N. Y. Medicinal preparation for purifying the blood	13,548	Aug. 10	36	574
Grosvenor & Richards, Boston, Mass. Medicinal plasters	13,897	Dec. 21	37	1252
Grosvenor & Richards, Boston, Mass. Medicinal plasters	13,898	Dec. 21	37	1252
Guild, George M., Boston, Mass. Piano-fortes	13,370	June 8	35	1116
Guthmann, Carpenter & Telling, Chicago, Ill. Boots and shoes	13,230	Apr. 27	35	390
Guthmann, Carpenter & Telling, Chicago, Ill. Boots and shoes	13,231	Apr. 27	35	390
Hack, James W., Brooklyn, N. Y. Bluing	13,916	Dec. 21	37	1252
Hagstoz & Co., T. B., Philadelphia, Pa. Spectacles, eyeglasses, opera, field, and marine glasses, telescopes, microscopes, and lenses	12,999	Feb. 2	34	440
Hagstoz & Co., T. B., Philadelphia, Pa. Spectacles, eyeglasses, opera, field, and marine glasses, telescopes, microscopes, and lenses	13,000	Feb. 2	34	440
Hall, Alexander C. (See Hall and Hedges.)				
Hall, Frank A., New York, N. Y. Feathers for bedding purposes	13,313	May 18	35	754
Hall, Jesse T. and A. C., and J. M. Hedges, Pittsburg, Pa. Phosphorated bitters	13,549	Aug. 10	36	574
Hall, Jesse T. and A. C., and J. M. Hedges, Pittsburg, Pa. Remedy for catarrh	13,550	Aug. 10	36	574
Hall, William H., New York, N. Y. Toilet-soap, perfume, and cologne	13,413	June 15	35	1232
Hall, William H., New York, N. Y. Toilet-soap, perfume, and cologne	13,414	June 15	35	1232
Hamilton & Baker, Two Rivers, Wis. Fonts of type	13,290	May 11	35	632
Hamilton, Charles A., Waterbury, Conn. Spoons, knives, forks, ladles, cheese-scoops, tea-sets, casters, pitchers, waiters, and napkin-rings	13,289	May 11	35	632
Hamilton & Hamilton, Jr., Providence, R. I. Jewelry, comprising chains and chain-trimmings	13,232	Apr. 27	35	390
Hammond & Co., Charles A., Bazile Mills, Nebr. Flour	13,697	Sept. 28	36	1360
Handrich, Fritz, New York, N. Y. Rhine wine	13,925	Dec. 28	37	1360
Hanes, B. F., Winston, N. C. Smoking and plug chewing tobacco, cigars, and cigarettes	13,836	Nov. 30	37	896
Hanes, Benjamin F., Winston, N. C. Smoking and chewing tobacco, cigars, and cigarettes	13,758	Oct. 26	37	342
Hanna, Horton H. (See Hanna, Xenophon and H. H.)				
Hanna, Xenophon and H. H., Dayton, Ohio. Smoking-tobacco, cigars, and cigarettes	12,953	Jan. 19	34	254
Hargitt & Mackie, Springfield, Ill. Cigars	13,371	June 8	35	1116
Harnist, William D., Edwardsville, Ill. Preservatives of cider, fruits, and other fermentable substances	13,716	Oct. 12	37	104
Harper, Thomas H., Redditch, England. Needles, pins, crochet and knitting needles, and fish-hooks	12,989	Feb. 2	34	440
Harrison, Walter H., Baltimore, Md. Coin-scales	13,440	June 22	35	1342
Hartman Steel Company, (limited,) Beaver Falls and Pittsburg, Pa. Wire nails	13,180	Apr. 13	35	140
Hausman, Joseph, and S. V. B. Brown, Trinidad, Colo. Compound for exterminating prairie-dogs, ground-squirrels, gophers, rats, and mice	13,591	Aug. 24	36	824
Hausman, Joseph, and S. V. B. Brown, Trinidad, Colo. Compound for exterminating prairie-dogs, ground-squirrels, gophers, rats and mice	13,611	Aug. 24	36	824
Havana Tobacco Company, (limited,) New York, N. Y., and Havana, Cuba. Tobacco in its raw state	12,936	Jan. 12	34	134
Haws, George A., New York, N. Y. Metal-polish	13,701	Oct. 5	37	2
Hayden Saddlery Hardware Company, P., Columbus, Ohio. Hame and saddlery hardware	13,167	Apr. 6	35	2
Hayes, Murray & Co., Philadelphia, Pa. Shoes	13,530	July 27	36	350
Heapy & Sons, William, Liverpool, county of Lancaster, England. Hog products, cheese, butter, and butterine	13,531	July 27	36	350
Heath, George, London, England. Felt and silk hats	12,988	Feb. 2	34	440
Heathcote, Dexter & Co., San Francisco, Cal. Wines and brandies	13,681	Sept. 21	36	1250
Hedges, John M. (See Hall and Hedges.)				
Heesen Brothers & Co., Tecumseh, Mich. Hog-rings	13,007	Feb. 9	34	564
Heffner & Co., Circleville, Ohio. Indian-corn meal	13,783	Nov. 2	37	458
Heilgers & Co., F. W., London, England. Shellac	13,840	Nov. 30	37	896
Heinrichs & Oo., Brooklyn, N. Y. Anti-explosive compounds used in kerosene-lamps and kerosene-stoves	13,353	June 1	35	1006
Heins, John J., New York, N. Y. Gilders' size	13,534	Aug. 3	36	460
Heisel, C. T., Cleveland, Ohio. Chewing-gum	13,331	May 25	35	878
Heisel, Charles T., Cleveland, Ohio. Chewing-gum	13,133	Mar. 30	34	1394
Henderson & Co., Peter, New York, N. Y. Garden and other seeds	13,038	Feb. 16	34	704
Heuriet & Co., Rheims, France. Biscuits	12,937	Jan. 12	34	134
Herberg, Xavier, Cincinnati, Ohio. Blood-purifiers, tonics, pills, teas, powders, and drops	13,109	Mar. 16	34	1162
Herd & Co., Thomas R., Allegheny City, Pa. Cakes, crackers, biscuits, snaps, jumbles, prepared flours, and confections	13,213	Apr. 20	35	260
Herdrich, Fredrick H., Chicago, Ill. Tonic for the cure of certain diseases	13,291	May 11	35	632
Hewett, George E., Worcester, Mass. Ale	13,841	Nov. 30	37	896
Hewlett, S. R. & S. L., Roslyn, N. Y. Canned tomatoes	13,899	Dec. 21	37	1252
Heyman & Co., Monroeville, Ohio. Roller-process wheat-flour	13,110	Mar. 16	34	1162
Heywood & Williams, Sandusky, Ohio. Wheat-flour	12,954	Jan. 19	34	254
Highland Foundry Company, Boston, Mass. Heating-furnaces, cooking-stoves, and ranges	13,768	Nov. 2	37	458
Hillhouse & Day, New York, N. Y. Indian cornmeal	13,332	May 25	35	878
Hinrichs, Theodore, Baltimore, Md. Cough drops	13,066	Mar. 9	34	1050
Hiscox & Co., New York, N. Y. Remedy for the cure of corns	13,134	Mar. 30	34	1394
Hodgson, F. E., Cheshunt, county of Herts, England. Medical compound for external application for skin diseases	13,900	Dec. 21	37	1252
Hogan, Evans & Co., (limited,) Pittsburg, Pa. Lamp-chimneys	13,087	Mar. 9	34	1050
Holmes & Edwards Silver Company, Bridgeport, Conn. Flat and hollow table-wares of silver, German silver, and plated or imitation silver	13,333	May 25	35	878
Holmes & Edwards Silver Company, Bridgeport, Conn. Silver-ware or imitation silver-ware	13,334	May 25	35	878
Holmes, John H. (See Weideman, Holmes, and Fries.)				
Hoogland, B. T., New York, N. Y. Medicated Manila paper for water-closets	12,970	Jan. 26	34	344
Horne, John W., Boston, Mass. Certain ledgers, day-books, and journals	13,415	June 15	35	1232
Howard Bros., Fredonia, N. Y. Sticking-salve	13,901	Dec. 21	37	1252
Hoyt & Co., E. W., Lowell, Mass. Perfumery	13,160	Apr. 6	35	2
Hoyt & Co., F., Philadelphia, Pa. Cologne-water and other perfumery	13,651	Sept. 7	36	1048
Hunt & Co., F. W., Boston, Mass. Whisky	13,575	Aug. 17	36	696
Hutchinson & Co., F. S., Enosburg Falls, Vt. Remedy for apoplexy and other kindred diseases	13,857	Dec. 7	37	1006

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Hutton, Terry J., Fergus Falls, Minn. Medicine chests	13,717	Oct. 12	37	104
Huyck & Argersinger, Albany, N. Y. Paper-makers' and printers' felts and felt boots and shoes	13,569	Nov. 2	37	458
Hyde & Burton, New York, N. Y. Three-leaf twilled silesias and other cotton linings	13,143	Mar. 30	34	1394
Hyde & Burton, New York, N. Y. Three-leaf twilled silesias and other cotton linings	13,144	Mar. 30	34	1394
Hyde, Samuel N., Long Green, Md. Canned corn, tomatoes, and other vegetables	13,292	May 11	35	632
Imhof, Henry, Buffalo, N. Y. Liquid nerve-tonic	13,621	Aug. 31	36	944
Iowa Farming Tool Company, Fort Madison, Iowa. Hoes	13,314	May 18	35	754
Ireland, Howard L., Philadelphia, Pa. Bird-food	13,496	July 13	36	124
Ireland & Vannatta, Lexington, Ky. Whisky	13,001	Feb. 2	34	440
Iron Clad Manufacturing Company, New York, N. Y. Can-stock, cans, range-boilers, coal hods, pails, buckets, pans, soda-fountains, milk-coolers, &c	13,233	Apr. 27	35	390
Jetsom, Chakeman, Taylor & Co., New York, N. Y. Certain named articles of stationery	13,181	Apr. 13	35	140
Izod & Son, E., London, and Landport, county of Hants, England. Stays and corsets	13,577	Nov. 2	37	458
Jackson & Co., William H., New York, N. Y. Fire-places and open grates	13,791	Nov. 9	37	570
Jacobi, Alwine R. (See Eggemann, Jacobi, Erichson, and Schrenser.)				
Jacques, Napoleon, Worcester, Mass. Fluid compound or quieting-sirup for children	13,263	May 4	35	504
Jaeger & Timme, New York, N. Y. Plush	13,234	Apr. 27	35	390
Jaeger's Sanitary Woolen System Company, Dr., New York, N. Y. Certain named woolen bedding	13,561	Aug. 10	36	574
Jaeger's Sanitary Woolen System Co., New York, N. Y. Certain articles of wearing-apparel	13,632	Aug. 31	36	944
Jaffé & Darmstaedter, Benno, Charlottenburg, near Berlin, Germany. Toilet-soap, cream, milk, paste, and pomatum	13,527	July 27	36	350
Jaffé & Darmstaedter, Benno, Charlottenburg, near Berlin, Germany. Salves and plasters	13,528	July 27	36	350
Jaffé & Darmstaedter, Benno, Charlottenburg, near Berlin, Germany. Unguent or salve	13,622	Aug. 31	36	944
Jameson & Son, John, Dublin, Ireland. Whisky	13,576	Aug. 17	36	696
Janecek & Co., M. J., Chicago, Ill. Medicated salts for bath and toilet purposes	13,214	Apr. 20	35	260
Janes & Kirtland, New York, N. Y. Cooking-ranges	13,927	Dec. 28	37	1360
Jeffery, William T., New York, N. Y. Flour made for exportation to tropical countries	13,432	June 22	35	1342
Jenks, Charles C. (See Foote and Jenks.)				
Jennings & Sons, A. G., Brooklyn, N. Y. Hair nets	13,354	June 1	35	1006
Jennings & Sons, A. G., Brooklyn, N. Y. Gloves and mitts	13,780	Nov. 2	37	458
Johnson, A. Wilhard, Salina, Kans. Hair-restorer	13,702	Oct. 5	37	2
Johnson, Benjamin W. (See Girardeau and Johnson.)				
Johnson & Co., E. B. Chaumont and Clayton, N. Y. Liniment and leg-wash	13,355	June 1	35	1006
Johnson & Co., J. C., Memphis, Tenn. Fulling and scouring, toilet, and laundry soap	13,535	Aug. 3	36	460
Johnson & Co., J. P., Peoria, Ill. Coffees	13,262	May 4	35	504
Johnston, Frank A., Winona, Minn. Straight family flour	12,920	Jan. 5	34	2
Johnston Oatmeal Company, A. M., Rockford, Ill. Flakes or grits prepared from the cereals	13,089	Mar. 9	34	1050
Jones, Henry B., Burton, Tex. Liniment	13,235	Apr. 27	35	390
Jones, Lilly B., Baltimore, Md. Cure for throat and lung diseases	13,864	Dec. 14	37	1127
Jones & Sons, George, Stoke-upon-Trent, England. Dinner, tea, and table china and earthenware	13,441	June 22	35	1342
Jones, William T., Columbia, Cal. Medicine for the cure of catarrh, hay fever, and leucorrhœa	13,161	Apr. 6	35	2
Jordan, Marsh & Co., Boston, Mass. Woolen dress-goods, cloakings, shawls, tweeds, and fancy woolens	13,881	Dec. 14	37	1128
Joyce, George N., *et al.* (See Gilbert, Jabez C., assignor.)				
Kalbe, J. F., Berlin, Germany. Accordions	13,389	June 15	35	1231
Kalle & Co., Biebrich, Germany. Medicinal preparation	13,803	Nov. 16	37	678
Kammgarn-Spinnerei, Düsseldorf, Germany. Woolen yarns	13,928	Dec. 28	37	1360
Kearney & Foot Company, New York, N. Y., and Paterson, N. J. Horse-rasps	13,111	Mar. 16	34	1162
Keasbey & Mattison, Philadelphia, Pa. Tonic and stimulant	13,663	Sept. 14	36	1154
Keasbey & Mattison, Philadelphia, Pa. Medical preparation	13,865	Dec. 14	37	1127
Kellogg, James C., New York, N. Y. Washing or soap powders	13,929	Dec. 28	37	1360
Kemp, Day & Co., New York, N. Y. Canned corn	13,112	Mar. 16	34	1162
Kerley, Richard M., and W. C. Fountain, St. Louis, Mo. Liniments	13,417	June 15	35	1232
Kernan, Francis, Jr. (See Wheeler and Kernan.)				
Kerr, Weitzel & Co., Wrightsville, Pa. Lime	13,416	June 15	35	1232
Keuffel & Esser, New York, N. Y. Drawing-paper and paper for photographic processes	13,956	Jan. 19	34	234
Kidder, Samuel, Boston, Mass. Belting	13,604	Aug. 24	36	824
Kilmer Manufacturing Company, Schenectady, N. Y. Wire bands or bale-ties	13,731	Oct. 12	37	104
Kingan & Company, (limited,) Indianapolis, Ind. Pork	13,454	June 29	35	1440
King's Great Western Powder Company, Xenia and Cincinnati, Ohio. Gunpowder	13,293	May 11	35	632
Kingsford, Thomson, Oswego, N. Y. Laundry-starch	13,356	June 1	35	1006
Kirk & Co., James S., Chicago, Ill. Laundry-soap	13,257	Jan. 19	34	234
Kirk & Co., James S., Chicago, Ill. Laundry or family soap	13,264	May 4	35	504
Kirk & Co., James S., Chicago, Ill. Toilet-soap	13,623	Aug. 31	36	944
Kirk & Co., James S., Chicago, Ill. Toilet-soap	13,664	Sept. 14	36	1154
Klotts, S. R., Columbus, Ohio. Cigars and stogies	13,265	May 4	35	504
Knappton Packing Company, Oakland, Cal. Canned fish or salmon	13,335	May 25	35	878
Knight, Bevan & Sturge, London, England. Cement commonly known as Portland cement	13,782	Nov. 2	37	458
Kreychie, John L., Iroquois, Dak. Ter. Horse medicines or condition powders	13,070	Mar. 2	34	926
Kuhlmann, Charles, Omaha, Nebr. Certain named medical remedies	13,719	Oct. 12	37	104
Kupferle, John C., St. Louis, Mo. Hydrants	13,902	Dec. 21	37	1252
Labaree & Co., J. H., New York, N. Y. Tea from China	13,842	Nov. 30	37	896
Laird, Schober & Mitchell, Philadelphia, Pa. Entire class of boots and shoes	13,268	May 4	35	504
Laird, Schober & Mitchell, Philadelphia, Pa. All boots and shoes made of kid leather	13,269	May 4	35	504
Laird, Schober & Mitchell, Philadelphia, Pa. Shoes for men, women, misses, and children	13,270	May 4	35	504
Laird, Schober & Mitchell, Philadelphia, Pa. Shoes for ladies, children, misses, and men	13,315	May 18	35	754
Laird, Schober & Mitchell, Philadelphia, Pa. Shoes for ladies, children, misses, and men	13,316	May 18	35	754
Laird, Schober & Mitchell, Philadelphia, Pa. Shoes for ladies, children, misses, and men	13,317	May 18	35	754
Larrabee, Benjamin F., Boston, Mass. Hosiery	13,372	June 8	35	1116
Lautz Bros. & Co., Buffalo, N. Y. Laundry and toilet soap	12,938	Jan. 12	34	134
Lautz Bros. & Co., Buffalo, N. Y. Laundry and toilet soap	12,939	Jan. 12	34	134
Lautz Bros. & Co., Buffalo, N. Y. Laundry and toilet soaps	12,950	Jan. 12	34	134
Lawton, Frank B., Albion, Wis. Inks	13,652	Sept. 7	36	1048
Le Boutillier Brothers, New York, N. Y. Hosiery	13,157	Apr. 6	35	2
Lea & Sons Company, William, Wilmington, Del. Wheat-flour	13,071	Mar. 2	34	926
Lea & Sons Company, William, Wilmington, Del. Kiln-dried cornmeal	13,100	Mar. 9	34	1050
Lea & Sons Company, William, Wilmington, Del. Wheat-flour	13,128	Mar. 23	34	1280
Lefranc & Co., Paris, France. Driers for paints and varnishes	12,971	Jan. 26	34	344
Lennon, William F., New York, N. Y. Sash-balances	13,497	July 13	36	124
Leonard & Co., Minneapolis, Minn. Corn-remover	13,644	Sept. 7	36	1048
Lesher, Whitman & Co., New York, N. Y. Braids used on men's coats and vests and ladies' cloaks and dresses	13,442	June 22	35	1342
Lever Bros., Warrington, county of Lancaster, England. Soap for household and all other purposes	13,624	Aug. 31	36	944
Levering & Co., Lafayette, Ind. Gloves	13,612	Aug. 24	36	824

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Levor, Gustav, Gloversville, N. Y. Kid-leather	13,843	Nov. 30	37	896
Levy, Arthur, Paris, France. Telescopes, spy-glasses, and magnifying-glasses	13,605	Aug. 24	36	824
Levy & Bro., H. L., New York, N. Y. Boys' shirt-waists, men's flannel shirts, and ladies' wrappers	13,599	Aug. 24	36	824
Lewinsohn, E., Berlin, Germany. Fancy feathers, ostrich-feathers, and feather trimmings	13,373	June 8	35	1116
Link Belt Machinery Company, Chicago, Ill. Detachable drive-chains	13,805	Nov. 16	37	678
Litofuge Manufacturing Company, New York, N. Y. Compound for preventing and removing lime and other deposits in steam-boilers	13,488	July 13	36	124
Locke & Co., J. M., Brooklyn, N. Y. Printed satinets or woolens	13,698	Sept. 28	36	1360
Lockett, Vaughn & Co., Winston, N. C. Plug chewing-tobacco	13,837	Nov. 30	37	896
Loeflund, Eduard, Stuttgart, Würtemberg, Germany. Infants' food	13,507	July 20	36	236
Loeflund, Eduard, Stuttgart, Germany. Medicine for lung and throat troubles, anæmia, scrofula, phthisis, indigestion, nervous and general debility, and rickets	13,536	Aug. 3	36	460
Lombard, Ayres & Company, New York, N. Y. Refined petroleum	13,875	Dec. 14	37	1128
Lombard, Ayres & Company, New York, N. Y. Illuminating-oil	13,876	Dec. 14	37	1128
London Portland Cement Company, (limited,) London and North Fleet, England. Portland cement	13,930	Dec. 28	37	1360
Lord, Francis C., Boston, Mass. Preparation for removing grease and stains	13,537	Aug. 3	36	460
Lorenz Bros., Toledo, Ohio. Perfumery for the handkerchief and toilet	12,940	Jan. 12	34	134
Lorillard & Co., P., Jersey City, N. J. Plug-tobacco	13,770	Nov. 2	37	458
Louisville Spirit Cured Tobacco Company, Louisville, Ky. Extract of tobacco for sheep-dip	13,475	July 6	36	2
Low, Harriman & Co., New York, N. Y. Bleached, brown, and colored cotton goods	13,162	Apr. 6	35	2
Low, Harriman & Co., New York, N. Y. Bleached, brown, and colored cotton goods	13,215	Apr. 20	35	260
Lowe & Co., Charles, Piccadilly, Manchester, county of Lancaster, England. Coloring-matter and chemical goods to which such coloring-matter is applied	12,969	Jan. 19	34	254
Lowenbach, Moritz, Baltimore, Md. Whiskey	12,921	Jan. 5	34	2
Lows, H. C., La Crosse, Wis. Roasted coffee	13,759	Oct. 26	37	342
Ludwig, Gebrüder, Zwota, Saxony, Germany. Harmonicas	13,844	Nov. 30	37	896
MacCall, James R., Pawtucket, R. I. Cotton fabrics	13,858	Dec. 7	37	1006
MacKellar, Smiths & Jordan Company, Philadelphia, Pa. Printing-type	13,072	Mar. 2	34	926
Machen & Co., Liverpool, England. Malt liquors	13,113	Mar. 16	34	1162
Mack & Co., J. J., San Francisco, Cal. Preparation for treatment of the circulation and organs connected therewith	13,120	Mar. 23	34	1280
Mack & Co., J. J., San Francisco, Cal. Preparation for treatment of coughs, colds, and lung diseases	13,182	Apr. 13	35	140
Mack & Co., J. J., San Francisco, Cal. Preparation for beautifying the skin	13,720	Oct. 12	37	104
Mailler & Quereau, New York, N. Y. Kerosene-oil or refined petroleum	13,294	May 11	35	632
Manhattan Wall Paper Company, New York, N. Y. Embossed or relief wall-paper	12,972	Jan. 26	34	344
Manufacture de Feutres & Chapeaux, Brussels, Belgium. Hatters' furs	13,520	July 20	36	236
Marchandise, L., Paris, France. Perfumery	13,737	Oct. 19	37	222
Markle, John E., Winchester, Ind. Compound for the treatment of female complaints	13,562	Aug. 10	36	574
Martin Bros., Port Huron, Mich. Roasted ground and unground coffee	13,672	Sept. 21	36	1250
Martin Bros., Port Huron, Mich. Roasted ground and unground coffee	13,673	Sept. 21	36	1250
Martini, Alessandro, and L. Rossi, Turin, Italy. Vermouth	13,295	May 11	35	632
Massachusetts Cotton Mills, Boston, Mass. Woven cotton goods	13,903	Dec. 21	37	1252
Massasoit Paper Manufacturing Company, Holyoke, Mass. Writing-paper	13,563	Aug. 10	36	574
Mattocks, Charles P., Portland, Me. Canned sugar-corn	13,476	July 6	36	2
Mayer Brothers & Co., New York, N. Y. Roasted coffee	13,551	Aug. 10	36	574
Mayer, Michel & Deninger, Mayence, Germany. Calf-skins, morocco, sheep-skins, and patent-leather	13,552	Aug. 10	36	574
Mayer, Michel & Deninger, Mayence, Germany. Calf-skins, morocco, sheep-skins, and patent-leather	13,633	Aug. 31	36	944
Maynard & Irwin, Boston, Mass. Roasted and ground coffee	13,216	Apr. 20	35	260
McCaine, Louise M. and M. B., St. Paul, Minn. Liniment	13,519	July 20	36	236
McCaine, Maria B. (See McCaine, Louise M. and M. B.)				
McCobb, Henry, New York, N. Y. Various preparations of chocolate and cream and of cocoa and cream	13,145	Mar. 30	34	1394
McConnell, Clancey & Co., Chillicothe, Ohio. Canned corn	13,665	Sept. 14	36	1154
McConnell, Clancey & Co., Schooley, Ohio. Canned corn	13,760	Oct. 26	37	342
McCorkle & Co., Robert C., Louisville, Ky. Whisky	13,146	Mar. 30	34	1394
McCoy & Sanders, New York, N. Y. Razors, scissors, and pocket-knives	13,789	Nov. 9	37	570
McCreery & Co., James, New York, N. Y. Hosiery other than white	13,090	Mar. 9	34	1050
McKesson & Robbins, New York, N. Y. Florida water	13,878	Dec. 14	37	1128
McKesson & Robbins, New York, N. Y. Perfumery and powders	13,933	Dec. 28	37	1360
McLaren, J. R., Jr., Montreal, Quebec, Canada. Toboggans	13,266	May 4	35	504
McLean, Albert C., Allegheny, Pa. Soap	13,585	Aug. 17	36	696
McMurray, Samuel B., Indianapolis, Ind. Pills for purifying the blood	12,922	Jan. 5	34	2
McMurray, Samuel B., Indianapolis, Ind. Pills for purifying the blood	12,923	Jan. 5	34	2
Meagher Bros. & Co., Montreal, Quebec, Canada. Bitters	13,877	Dec. 14	37	1128
Mechanische Weberei zu Linden, Linden, near Hanover, Prussia, Germany. Cotton, half-woolen, and half-silk goods	13,468	July 6	36	2
Meckel & Co., Elberfeld, Germany. Satins	13,819	Nov. 23	37	788
Medinus & Iten, Chicago, Ill. Hog-cholera medicine	13,553	Aug. 10	36	574
Megroz, Portier, Grose & Co., New York, N. Y. Dress fabrics of silk, wool, or cotton	13,645	Sept. 7	36	1048
Mennen, Gerhard, Newark, N. J. Medicine or cure for corns, bunions, warts, moles, callousness, &c.	13,666	Sept. 14	36	1154
Metcalf & Co., Theodore, Boston, Mass. Ointments, cerates, and the fat from sheep's wool made ready for medicinal use	13,433	June 22	35	1342
Mevey, Elizabeth C., New York, N. Y. Patterns for garments for women and children	13,236	Apr. 27	35	390
Meyer, Adolph C., Baltimore, Md. Certain-named proprietary medicines	13,008	Feb. 9	34	564
Meyer, Arthur and G., Newburg, N. Y. Cream tartar and bicarbonate soda powder	13,296	May 11	35	632
Meyer, Gustave J., St. Louis, Mo. Specific remedies for diseases of the blood and skin	13,684	Sept. 21	36	1250
Meyer, Henry C., New York, N. Y. Newspapers, magazines, and advertising-sheets	13,410	June 15	35	1232
Meyer, Henry C., New York, N. Y. Periodical publications	13,904	Dec. 21	37	1252
Meyer, Louis, New York, N. Y. Fur caps	13,418	June 15	35	1232
Michael, Anthony M., Albany, N. Y. Medals, seals, stamps, and badges	13,163	Apr. 6	35	2
Miles, John J., Memphis, Tenn. Specific for the treatment of gonorrhea and gleet	13,217	Apr. 20	35	260
Millar & Company, E. B., Chicago, Ill. Tea	13,431	June 22	35	1342
Miller, Christian, Philadelphia, Pa. Mineral waters	13,383	June 8	35	1116
Miller, Franklin K., and S. S. Bobst, Reading, Pa. Soap-powders	12,973	Jan. 26	34	344
Miller, Henry C., Quincy, Ill. Baking-powder	13,703	Oct. 5	37	2
Miller, John P., Philadelphia, Pa. Botanic nerve-bitters	13,183	Apr. 13	35	140
Milnor & Co., William H., Baltimore, Md. Coffees, roasted or green	12,924	Jan. 5	34	2
Milnor & Co., William H., Baltimore, Md. Teas	13,925	Jan. 5	34	2
Milnor & Co., William H., Baltimore, Md. Coffee	13,336	May 25	35	878
Minaldi, Antonio, New York, N. Y. Oranges and lemons	13,667	Sept. 14	36	1154
Missimer, William J., Pottstown, Pa. Dyspepsia and malaria cure	13,164	Apr. 6	35	2

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Mitchell, Cornelius B., New York, N. Y. Woolen shawls	13,905	Dec. 21	37	1252
Miville, Francis C., Manchester, N. H. Tonic	12,941	Jan. 12	34	134
Monce, Samuel G., Bristol, Conn. Glass-cutters	13,052	Feb. 23	34	830
Montague, William E., Philadelphia, Pa. Carpets ribbed upon both faces	13,606	Aug. 24	36	824
Moore, Hollis W., and M. W. Barse, Olean, N. Y. Vehicle-springs	13,318	Apr. 20	35	260
Moore, W. B., Chicago, Ill. Turpentine	13,184	Apr. 13	35	140
Morgan, Robert W., Lynchburg, Va. Dental chewing-gum	13,185	Apr. 13	35	140
Moro, Wilhelm, London, England. Hair-reviver	13,121	Mar. 23	34	1280
Mortimer, Charles G., New York, N. Y. Toilet-paper	13,546	Aug. 3	36	460
Muhr's Sons, H., Philadelphia, Pa. Filled watch-cases	12,958	Jan. 19	34	254
Mulchahey, John, Newburyport, Mass. Toilet-powder	13,358	June 1	35	1006
Mulford, Cary & Conklin, New York, N. Y. Kid and goat skins	12,926	Jan. 5	34	2
Mülhens & Kropff, New York, N. Y. Perfumery	12,942	Jan. 12	34	134
Mülhens & Kropff, New York, N. Y. Perfumery	12,944	Jan. 12	34	134
Mülhens & Kropff, New York, N. Y. Perfumery	12,945	Jan. 12	34	134
Munson & Co., St. Louis, Mo. Medical preparation of coca	13,907	Dec. 21	37	1252
Murchison, Eugene T., and W. J. Rogers, Terrell, Tex. Poultry medicine	13,721	Oct. 12	37	104
Murphy, Charles F., Boston, Mass. Spool-cotton	13,165	Apr. 6	35	2
Muschert, Henry J., Philadelphia, Pa. Remedy for dyspepsia and water-brash	13,866	Dec. 14	37	1127
Myers, Julia A., Baltimore, Md. Medicine for the cure of neuralgia, rheumatism, and malaria	13,722	Oct. 12	37	104
Nash & Brother, Millington, N. J. Pulverizing-harrows, clod-crushers, and levelers	13,508	July 20	36	236
New York Belting and Packing Company, New York, N. Y. Rubber hose	13,318	May 18	35	754
New York Belting and Packing Company, New York, N. Y. Emery-wheels	13,538	Aug. 3	36	460
New York Condensed Milk Company, New York, N. Y. Condensed milk	13,054	Feb. 23	34	830
New York Fire Proof Paint Company, New York, N. Y. Paint	13,166	Apr. 6	35	2
New York Knife Company, Walden, N. Y. Pocket and table cutlery	13,009	Feb. 9	34	564
New York Knife Company, Walden, N. Y. Pocket and table cutlery solely	13,498	July 13	36	124
New York Polyform Manufacturing Company, (limited,) New York, N. Y. Hair-curling preparation	13,319	May 18	35	754
Newark Lime and Cement Manufacturing Company, Newark, N. J., and Rondout, N. Y. Certain builders' materials	13,237	Apr. 27	35	390
Newburne & Co., J. W., Beardstown, Ill. Cough-sirup	13,053	Feb. 23	34	830
Newhall, Joseph A., Saugus, Mass. Digestive lozenges or troches	13,039	Feb. 16	34	704
Newman, Anton E., New York, N. Y., and Newark, N. J. Vegetable fiber and cloth manufactured therefrom	12,927	Jan. 5	34	2
Nichols, Reuben E., Philadelphia, Pa. Compound for preserving and rendering water-proof brick, stone, wood, paper, cloth, &c	13,091	Mar. 9	34	1050
Nicholson, Peter and Jane, St. Louis, Mo. Condiments and sauces	13,219	Apr. 20	35	260
Nobles, Elizabeth A., Springfield, Ohio. Specific for uterine diseases	13,806	Nov. 16	37	678
Noerdlinger & Brother, Trieste, Austria-Hungary. Dried fruits	13,185	Mar. 30	34	1394
Normal Company, (limited,) Westminster, England. Certain named animal and fish products	13,613	Aug. 24	36	824
Normal Company, (limited,) Westminster, England, and Aberdeen, Scotland. Vegetable extracts for flavoring soups	13,659	Sept. 28	36	1360
North Shore Packing Company, Oakland, Cal. Canned salmon or fish	13,238	Apr. 27	35	390
North Shore Packing Company, Oakland, Cal. Canned salmon or fish	13,239	Apr. 27	35	390
Norton, Francis P., Boston, Mass. Cigars	13,262	May 4	34	1280
Nowitzky, George L., Raleigh, N. C. Blood-purifier and a remedy for diseases of the liver and kidneys	13,374	June 8	35	1116
Oberne, Hosick & Co., Chicago, Ill. Soap for laundry and general purposes	13,010	Feb. 9	34	564
Ocean Oil Company, New York, N. Y. Refined petroleum for illuminating purposes	13,723	Oct. 12	37	104
Olin & Co., G. B., Canandaigua, N. Y. Spring-tooth harrows	13,908	Dec. 21	37	1252
Olry, Louise H. L. R., Rheims, France. Champagne-wine	13,023	Mar. 2	34	926
Oneida Community, (limited,) Niagara Falls, N. Y. Plated knives, forks, and spoons	13,820	Nov. 23	37	788
Openhym & Sons, William, New York, N. Y. Velveteens, corduroys, and cotton-velvet fabrics	13,011	Feb. 9	34	564
Openhym & Sons, William, New York, N. Y. All kinds of veilings and tulle	13,012	Feb. 9	34	564
Openhym & Sons, William, New York, N. Y. Bareges and parisinas	13,013	Feb. 9	34	564
Openhym & Sons, William, New York, N. Y. Sewing-silk veiling	13,014	Feb. 9	34	564
Openhym & Sons, William, New York, N. Y. Grenadine veiling	13,015	Feb. 9	34	564
Openhym & Sons, William, New York, N. Y. Cashmeres	13,016	Feb. 9	34	564
Openhym & Sons, William, New York, N. Y. Silk, velvet, and silk plushes	13,017	Feb. 9	34	564
Ord, Richard, Darlington, county of Durham, England. Liquid veterinary lotion	13,794	Nov. 9	37	570
Oregon Indian Medicine Company, Corry, Pa. Remedy for blood, stomach, and liver diseases	13,909	Dec. 21	37	1252
Orem, George W., Jr., Baltimore, Md. Canned oysters, fruits, and vegetables	13,267	May 4	35	504
Ormsby, Frank H. (See Ormsby, William D. and F. H.)				
Ormsby, William D., Fitchburg, and F. H. Ormsby, Boston, Mass. Hosiery	13,687	Sept. 28	36	1360
Orr & Co., R. L., (limited,) Pittsburg, Pa. Grinding-mills	13,018	Feb. 9	34	564
Osborn & Co., Samuel, Sheffield, county of York, England. Steel	13,469	July 6	36	2
Osborn & Co., Samuel, Sheffield, county of York, England. Steel	13,470	July 6	36	2
Osborn, Frederick G., *et al.* (See Gilbert, Jabez C., assignor.)				
Osborne, C. Oatman, and A. M. Taylor, Matteawan, N. Y. Men's, women's and children's hats	13,832	Nov. 23	37	788
O'Shaughnessy, John W., New York, N. Y. Mocha coffee	13,592	Aug. 24	36	824
Owen, Tubal-Cain, Ypsilanti, Mich. Ypsilanti mineral water and all the various products of the same	13,127	Mar. 23	34	1280
Pa Dro, Clara R., Springfield, Mass. Medicinal preparation for the feet, in powdered or liquid form	13,554	Aug. 10	36	574
Pace Tobacco Company, J. B., Richmond, Va. Plug twist, and smoking tobacco	12,946	Jan. 12	34	134
Palmer, David, Lodi, Ohio. Remedy for cutaneous diseases	13,019	Feb. 9	34	564
Parker, John J., Aitkin, Minn. Saws	13,607	Aug. 24	36	824
Parker, Willard F., Philadelphia, Pa. Butter-scotch or taffy	13,555	Aug. 10	36	574
Patrick, Zebulon W., Helena, Ark. Remedies for stomach, liver, and kidney affections	13,521	July 20	36	236
Patterson & Co., R. A., Richmond, Va. Plug-tobacco	13,882	Dec. 14	37	1128
Patzowsky & Co., New York, N. Y. Calf-skins	13,420	June 15	35	1232
Paxton Bros. & Co., Cincinnati, Ohio. Whisky	13,614	Aug. 24	36	824
Payne, George F., Macon, Ga. Vermifuge	13,136	Mar. 30	34	1394
Peabody & Co., Henry W., Boston, Mass. Refined petroleum	13,668	Sept. 14	36	1154
Peabody, Selwin B., Tilton, N. H. Woven woolen fabrics	13,074	Mar. 2	34	926
Peck, Oliver, Oswego, N. Y. Kidney and liver cure medicines	13,785	Nov. 9	37	570
Pemberton & Hill Tobacco Manufacturing Company, Richmond, Va. All kinds of manufactured tobacco	13,240	Apr. 27	35	390
Pemberton & Hill Tobacco Manufacturing Company, Richmond, Va. Plug-tobacco	13,379	June 8	35	1116
Perkins, Elisha H., Baltimore, Md. Liniment	12,974	Jan. 26	34	344
Perkins & Ernst, Covington, Ky. Plug-tobacco	13,600	Aug. 24	36	824
Perkins, Richard C., New York, N. Y. Wool and silk and wool black dress goods	13,477	July 6	36	2
Perrine, M. & J. S., Philadelphia, Pa. Barley-malt whisky	13,761	Oct. 26	37	342
Peters, Gebrüder, Merscheid, near Solingen, Germany. Table, pocket, and other cutlery	13,400	June 15	35	1232
Peterson, Carl T., Miles City, Mont. Ter. Liniment	13,489	July 13	36	124
Petzolds German Bitters Company, Baltimore, Md. Medicinal bitters	13,486	July 13	36	124

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Pfaelzer Brothers & Co., Philadelphia, Pa. Remedy for rheumatism and other similar diseases	13,381	June 8	35	1116
Phillips, Seth, London, England. Food for calves	12,991	Feb. 2	34	440
Phœnix Plumbago Mining Company, Philadelphia, Pa. Stove-polish	13,075	Mar. 2	34	926
Phosphor Bronze Company, (limited,) London, England. Phosphor-bronze in ingots and wire and castings	13,337	May 25	35	878
Pike, N. H., and C. S. Elder, Chenoa, Ill. Specific for rheumatism	13,241	Apr. 27	35	390
Platt & Co., Baltimore, Md. Oysters, raw, cove, and pickled, put up in plain tin-plate cans	13,646	Sept. 7	36	1048
Platt & Co., Baltimore, Md. Canned oysters	13,838	Nov. 30	37	896
Platt & Co., Baltimore, Md. Canned goods	13,910	Dec. 21	37	1252
Plummer, Edwin H., Detroit, Mich. Fruit tonic	13,807	Nov. 16	37	678
Plymouth Silica Company, Plymouth, Mass. Silica cleaning and polishing preparations	13,020	Feb. 9	34	564
Poidebard Silk Manufacturing Company, Jersey City, N. J. Fancy-colored silks, armures, satin-faced goods, serges, or other silken fabrics	13,137	Mar. 30	34	1394
Polidori, Vincenzo, New York, N. Y. Medicinal preparations for purifying the blood	13,359	June 1	35	1006
Pollmann, August, New York, N. Y. Wind and string musical instruments	13,390	June 15	35	1231
Poor, John R. (See Foley and Poor.)				
Porter & Coates, Philadelphia, Pa. Books of duodecimo size	13,298	May 11	35	632
Porter Specific Company, Boston, Mass. Preparation for relieving whooping-cough	12,947	Jan. 12	34	134
Posnansky, Max, St. Louis, Mo. Hosiery	13,793	Nov. 9	37	570
Post, Charles W., Springfield, Ill. Straddle-row cultivators	13,771	Nov. 2	37	458
Potosi Silver Company, Birmingham, England. White-metal table-ware	13,738	Oct. 19	37	222
Potosi Silver Company, Birmingham, England. White-metal table-ware	13,739	Oct. 19	37	222
Pratt, Charles L., Minneapolis, Minn. Cigars and cigarettes	13,821	Nov. 23	37	788
Pratt, Charles L., Minneapolis, Minn. Cigars and cigarettes	13,822	Nov. 23	37	788
Pray, Benjamin S., Boston, Mass. Petroleum-oil	13,136	Mar. 30	34	1394
Preble, William H., Chicago, Ill. Remedy for diarrhea, dysentery, gravel, diseases of the kidneys, &c.	13,220	Apr. 20	35	260
Prentice & Evenson, Janesville, Wis. Preparation for the skin	13,845	Nov. 30	37	896
Prince, James F., Fort Reed, Fla. Fertilizer for diseased orange-trees	13,092	Mar. 9	34	1050
Provident Chemical Works, St. Louis, Mo. Powdered acid phosphate of lime	13,593	Aug. 24	36	824
Provident Chemical Works, St. Louis, Mo. Phosphatic food products, as designated	13,674	Sept. 21	36	1250
Provident Chemical Works, St. Louis, Mo. Powdered acid phosphate of lime for baking-powder	13,675	Sept. 21	36	1250
Provident Chemical Works, St. Louis, Mo. Powdered acid phosphate of lime for baking-powder	13,676	Sept. 21	36	1250
Pugsley, Dingman & Co., Toronto, Ontario, Canada. Laundry-soap	13,123	Mar. 23	34	1280
Pullar & Sons., Robert, Bridge of Allan, county of Stirling, Scotland. Linings for ladies' and gentlemen's habits, also for umbrella and parasol cloths	13,601	Aug. 24	36	824
Quarrie, George, Ulverston, county of Lancaster, England. Liquid medicine for the cure of rheumatism and other like complaints	13,139	Mar. 30	34	1394
Queen City Printing Ink Company, Cincinnati, Ohio, New York, N. Y., and Philadelphia, Pa. Printing-ink	13,804	Nov. 16	37	678
Quirk, William M., Binghamton, N. Y. Catarrh remedy	13,740	Oct. 19	37	222
Ransom, Edward D., Albany, N. Y. Foundry-facings and stove-polish	13,401	June 15	35	1232
Reach & Co., A. J., (limited,) Philadelphia, Pa. Certain sporting goods	13,421	June 15	35	1232
Reardon & Sons, John, Boston, Mass. Hard soap	13,076	Mar. 2	34	926
Reed & Barton, Taunton, Mass. Metal, electroplated, and silver ware of all kinds	13,021	Feb. 9	34	564
Reed & Barton, Taunton, Mass. Metal, electroplated, and silver ware of all kinds	13,022	Feb. 9	34	564
Reed, John D., Boston, Mass. Hams, shoulders, and bacon	13,510	July 20	36	236
Reeves, Joshua H., New York, N. Y. Pills	13,243	Apr. 27	35	390
Reichman, William, New York, N. Y. Cardigan jackets	13,302	May 11	35	632
Reid, Murdoch & Fischer, Chicago, Ill. Dried fruits	13,114	Mar. 16	34	1162
Reid, Murdoch & Fischer, Chicago, Ill. Certain products of coffee and spice mills	13,242	Apr. 27	35	390
Reid, Murdoch & Fischer, Chicago, Ill. Gunpowder, imperial, young hyson, Japan, Oolong, and English breakfast teas	13,360	June 1	35	1006
Reid, Murdoch & Fischer, Chicago, Ill. Apple-cider	13,434	June 22	35	1342
Reid, Murdoch & Fischer, Chicago, Ill. Canned fruits and vegetables	13,724	Oct. 12	37	104
Reid, Murdoch & Fischer, Chicago, Ill. Wheat-flour	13,762	Oct. 26	37	342
Reid, Murdoch & Fischer, Chicago, Ill. Wheat-flour	13,879	Dec. 14	37	1128
Reinhard, Francis H., New York, N. Y. Lubricating-oil	13,378	June 8	35	1116
Reinhard, Francis H., New York, N. Y. Lubricating-oil	13,564	Aug. 10	36	574
Revere Rubber Company, Boston, Mass. Rubber articles for mechanical purposes	13,299	May 11	35	632
Revere Rubber Company, Boston, Mass. Rubber articles for mechanical purposes	13,300	May 11	35	632
Revere Rubber Company, Boston, Mass. Rubber articles for mechanical purposes	13,301	May 11	35	632
Revere Rubber Company, Boston, Mass. Rubber hose	13,384	June 8	35	1116
Revere Rubber Company, Boston, Mass. Compound for packing the joints of steam-engines and for other purposes	13,539	Aug. 3	36	460
Reynolds, Richard J., Winston, N. C. Plug and twist tobacco	13,556	Aug. 10	36	574
Rice, Jorealion L., Omaha, Nebr. Oil-paints	13,361	June 1	35	1006
Richardson & Boynton Company, New York, N. Y. Stoves, ranges, heaters, and furnaces, and the parts thereof	13,124	Mar. 23	34	1280
Riley, John and J. M. Boyer, London, Ohio. Liniment	12,992	Feb. 2	34	440
Riley, Michael, London, Ohio. Fluid, wet, and dry yeast	13,478	July 6	36	2
Riley, William H. & Robert L., New Orleans, La. Iron tonic	13,911	Dec. 21	37	1252
Riverton Mills Co., (limited,) Riverton, Va. Flour	13,706	Oct. 5	37	2
Roever, H. & G. A., Cincinnati, Ohio. Soap in cakes, bars, blocks, or balls	13,479	July 6	36	2
Rogers, William J. (See Murchison and Rogers.)				
Rood Magic Scale Company, Quincy, Ill. Publications relating to cutting garments for men, women, and children	13,244	Apr. 27	35	390
Ropes & Co., W., New York, N. Y. Mineral fat	13,422	June 15	35	1232
Rosenthal & Co., D., Göppingen, Würtemberg, Germany. Corsets	13,303	May 11	35	632
Rosenthal & Co., J., New York, N. Y. Harmonicas	13,362	June 1	35	1006
Rossi, Luigi. (See Martini and Rossi.)				
Rowell, Homer M., East Franklin, Vt. Medicinal invigorating tonic	13,786	Nov. 9	37	570
Rudge & Co., D., Coventry, county of Warwick, England. Bicycles, tricycles, and other velocipedes	12,961	Jan. 19	34	254
Russell & Co., New York, N. Y. Sheetings, drills, jeans, and other cotton cloths	13,634	Aug. 31	36	944
Rutherford & Barnes, Brooklyn, N. Y. Disinfecting soap for the toilet and laundry	13,443	June 22	35	1342
Salter & Co., George, West Bromwich, county of Stafford, England. Springs, spring-balances, and spring-actuated machines not horological	13,823	Nov. 23	37	788
Samoset Manufacturing Company, Boston, Mass. Laundry-soap	13,149	Mar. 30	34	1394
Sanford & Sons, Stephen, Amsterdam, N. Y. Velvet carpets	13,080	Mar. 2	34	926
Santos, M. A. & C. A., Norfolk, Va. Dentifrice or tooth-wash	13,565	Aug. 10	36	574
Sarrazin, Cheri E., New Orleans, La. Smoking-tobacco	13,883	Dec. 14	37	1128
Sattler & Co., Baltimore, Md. Whiskies and wines	13,763	Oct. 26	37	342
Saunders, Charles U., Port Richmond, N. Y. Colic-cure, condition-powders, liniment, and hoof-ointment	13,725	Oct. 12	37	104

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Saxlehner, Andreas, Buda-Pesth, Austria-Hungary. Natural aperient water	13,677	Sept. 21	36	1250
Scaramelli Fils et Cie., F., Marseilles, France. Macaroni, vermicelli, &c	13,093	Mar. 9	34	1050
Schade, Ernst W., New York, N. Y. Corn-salve	13,272	May 4	35	504
Schaefer, Henry T., Syracuse, N. Y. Lubricants for vehicles and other like purposes	13,040	Feb. 16	34	704
Schayer, Simon, New York, N. Y. Macaroons	12,993	Feb. 2	34	440
Scherer Company, P., New York, N. Y. Mineral waters and mineral salts	13,500	July 13	36	124
Schoellkopf & Mathews, Buffalo and Niagara Falls, N. Y. Wheat-flour	13,186	Apr. 13	35	140
Schoenhofen Brewing Company, Peter, Chicago, Ill. Lager-beer	13,055	Feb. 23	34	830
Schoenhofen Brewing Company, Peter, Chicago, Ill. Lager-beer	13,147	Mar. 30	34	1394
Schoenhofen Brewing Company, Peter, Chicago, Ill. Lager-beer	13,148	Mar. 30	34	1394
Schmoele & Co., William F., Antwerp, Belgium. Solid and liquid extracts of beef	13,824	Nov. 23	37	788
Schmoele & Co., William F., Antwerp, Belgium. Solid and liquid extracts of beef	13,825	Nov. 23	37	788
Schremser, Agnes. (See Eggeman, Jacob, Erichsen, and Schremser.)				
Schutt, George C., Toledo, Ohio. Medicine for external and internal use	13,448	June 22	35	1342
Schwab & Bros., G., New York, N. Y. Ladies' jerseys	13,077	Mar. 2	34	926
Schwartz, John, Titusville, Pa. Petroleum	13,710	Oct. 5	37	2
Scott, George A., New York, N. Y. Cigars and cigarettes	13,195	Mar. 23	34	1280
Scott, George A., New York, N. Y. Cigarettes	13,245	Apr. 27	35	390
Search, Newton C., Baltimore, Md. Cough, cold, croup, and consumption cure, and a liniment	13,685	Sept. 21	36	1250
Seitzinger, Jeremiah, Pottsville, Pa. Liniment and ointment	13,320	May 18	35	754
Semmer & Co., Phillip, New York, N. Y. Looking-glass plates	13,931	Dec. 28	37	1360
Servant, René A., Lyons, France. Furs for garments and garments made wholly or in part of furs	13,187	Apr. 13	35	140
Seymour Cutlery Company, Henry, Holyoke, Mass. Shears and scissors	13,088	Mar. 9	34	1050
Shaeu, Harry B., Brooklyn, N. Y. Hosiery	13,446	June 22	35	1342
Shanahan, Winfield S., and J. Fidler, East Chatham, N. Y. Specific for the cure of diseases of the bladder and kidneys	13,246	Apr. 27	35	390
Shapleigh & Co., Samuel B., Boston, Mass. Coffee	13,748	Oct. 19	37	222
Sharp, Clarke & Co., Chicago, Ill. Certain boots and shoes	13,338	May 25	35	878
Shaw & Drummond, New York, N. Y. Liniment	13,523	July 20	36	236
Sherman, Marr & Higgins, Chicago, Ill. Dried apricots	13,566	Aug. 10	36	574
Shields, Francis, Albany, N. Y. Smoking-tobacco	13,247	Apr. 27	35	390
Shipton, Ernest R., London, county of Middlesex, England. Lockets, brooches, badges, and similar articles	13,455	June 29	35	1440
Shirley, Frederick S., New Bedford, Mass. Glassware and fancy glass articles having colors shading into each other	13,339	May 25	35	878
Shirley, Frederick S., New Bedford, Mass. Glass table-ware and fancy articles of all kinds	13,523	July 20	36	236
Shoudy Soap Company, G. A., Rockford, Ill. Laundry and toilet soap	13,912	Dec. 21	37	1252
Shure, William J., Shure's Landing, Md. Liquid preparation to be used as an injection	13,704	Oct. 5	37	2
Sidle, Fletcher, Holmes Company, Minneapolis, Minn. Wheat-flour	13,402	June 15	35	1232
Siebel & Matthaei, Hamburg, Germany. Portland, Keene's, Roman, and hydraulic cements	13,623	Aug. 31	36	944
Sieber, Fred., Allegheny, Pa. Medicinal beverage for cure of drunkenness	13,686	Sept. 21	36	1250
Silsby, Harry D., Springfield, Mo. Cooking and heating stoves and ranges	13,615	Aug. 24	36	824
Silver Lake Company, Boston, Mass. Cords, lines, twines, and ropes	13,540	Aug. 3	36	460
Silver Lake Company, Boston, Mass. Cords, lines, twines, and ropes	13,541	Aug. 3	36	460
Silver Lake Company, Boston, Mass. Cords, lines, twines, and ropes	13,542	Aug. 3	36	460
Simon, R. & H., Union, N. J. Woven fabrics	13,188	Apr. 13	35	140
Simon, R. & H., Union, N. J. Woven silk fabrics	13,271	May 4	35	504
Simpson, Crawford & Simpson, New York, N. Y. Ladies' corsets	13,078	Mar. 2	34	926
Simpson, Crawford & Simpson, New York, N. Y. Kid gloves	13,626	Aug. 31	36	944
Simpson, Crawford & Simpson, New York, N. Y. Knit shirts, drawers, stockings, and socks	13,627	Aug. 31	36	944
Simpson, Crawford & Simpson, New York, N. Y. Kid gloves	13,635	Aug. 31	36	944
Simpson, Crawford & Simpson, New York, N. Y. Kid gloves	13,636	Aug. 31	36	944
Simpson, Greenlief W., Boston, Mass. Creamery butter	13,524	July 20	36	236
Singer, A. L., Chicago, Ill. Ladies' and children's underwear and boys' shirts and waists	13,934	Dec. 28	37	1360
Six Dykstra, James J., Chicago, Ill. Liniment	13,364	June 1	35	1006
Skillon, Foote & Co., Somerville, Mass. Highly-spiced pickles	13,115	Mar. 16	34	1162
Smith, Albert L., Palatine, Ill. Hair-invigorators	13,778	Nov. 2	37	458
Smith, Barclay J., San Francisco, Cal. Tea and burnt or ground coffee	13,491	July 13	36	124
Smith & Co., H. D., Cincinnati, Ohio. Chewing-gum	13,168	Apr. 6	35	2
Smith & Egge Manufacturing Company, Bridgeport, Conn. Button-hole attachments for sewing-machines	13,932	Dec. 28	37	1360
Smith, Flavius J., Austin, Tex. Medicine for the cure of blood diseases in domestic animals	13,447	June 22	35	1342
Smith, Fred W., New York, N. Y. Flour	13,079	Mar. 2	34	926
Smither, James W., Burlington, Iowa. Crackers	13,647	Sept. 7	36	1048
Snodgrass, James H., Mifflinburg, Pa. Carriages and carriage-springs	13,773	Nov. 2	37	458
Société Hygiénique Alimentaire, New York, N. Y. Olive-oil	12,948	Jan. 12	34	134
Société Hygiénique Alimentaire, New York, N. Y. Olive-oil	13,189	Apr. 13	35	140
Solet & Guardias, New York, N. Y. Blood-purifying medicine	13,637	Aug. 31	36	944
Solidarity Co-operative Cigar Factory, New York, N. Y. Smoking and chewing tobacco, cigars, and cigarettes	13,741	Oct. 19	37	222
Solis Cigar Company, Denver, Colo. Cigars	13,884	Dec. 14	37	1128
Soltmann, E. G., New York, N. Y. Certain named artists' and draftsmen's materials	13,056	Feb. 23	34	830
Soltmann, E. G., New York, N. Y. Certain drawing materials and instruments	13,094	Mar. 9	34	1050
Soltmann, E. G., New York, N. Y. Certain drawing materials and instruments	13,248	Apr. 27	35	390
Soltmann, Edward G., New York, N. Y. Certain named drawing materials	13,602	Aug. 24	36	824
Soltmann, Edward G., New York, N. Y. Drawing materials and instruments	13,867	Dec. 14	37	1127
Somborn, Julius, New York, N. Y. Champagne-wine	13,808	Nov. 16	37	678
Sommer, Richardson & Co., St. Joseph, Mo. Crackers	13,514	July 20	36	236
Sommer, Richardson & Co., St. Joseph, Mo. Candy	13,512	July 20	36	236
Sour Mash Distilling Company, Owensborough, Ky. Rye and other whisky	13,859	Dec. 7	37	1006
Sour Mash Distilling Company, Owensborough, Ky. Rye and other whisky	13,860	Dec. 7	37	1006
Southern Brewing Company, New Orleans, La. Bottled beer	13,885	Dec. 14	37	1128
Spaethe, Wilhelm, Gera, Reuss, Germany. Accordions	12,959	Jan. 19	34	254
Spaulding & Merrick, Chicago, Ill. Smoking and chewing tobacco	13,391	June 15	35	1232
Spear, Charles, Jr., New York, N. Y. Guano	13,126	Mar. 23	34	1280
Speidel & Co., Joseph, Wheeling, W. Va. Coffee	13,586	Aug. 17	36	696
Spencer, C. W., Burgin, Ky. Brooms	13,826	Nov. 23	37	788
Spiro, Charles, New York, N. Y. Type-writers	13,057	Feb. 23	34	830
Spiro, Charles, New York, N. Y. Type-writers	13,058	Feb. 23	34	830
Spratt's Patent, (limited,) London, county of Surrey, England. Medicine for dogs	13,688	Sept. 28	36	1360
Spratt's Patent, (limited,) London, county of Surrey, England. Substances and preparations for feeding pheasants and other game-birds and poultry	13,689	Sept. 28	36	1360
Spratt's Patent, (limited,) London, county of Surrey, England. Medicine for pheasants and other game-birds and poultry	13,690	Sept. 28	36	1360

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Spratt's Patent, (limited,) London, county of Surrey, England. Substances and preparations for feeding pheasants and other game-birds and poultry	13,691	Sept. 28	36	1360
Spratt's Patent, (limited,) London, county of Surrey, England. Medicine for pheasants and other game-birds and poultry	13,692	Sept. 28	36	1360
Spratt's Patent, (limited,) London, county of Surrey, England. Dog-biscuit and substances and preparations for feeding pheasants and other game-birds and poultry	13,693	Sept. 28	36	1360
Spratt's Patent, (limited,) London, county of Surrey, England. Preparations of food for dogs, cats, poultry, and other animals	13,694	Sept. 28	36	1360
Standard Cordage Company, Boston, Mass. Binder's twine and rope	12,928	Jan. 5	34	2
Standard Manufacturing Company, Allegheny, Pa. Bath-tubs and sinks	13,325	May 18	35	754
Stearns & Company, Frederick, Detroit, Mich. Preparations in the form of fluid extracts especially for use as cathartics	13,392	June 15	35	1232
Stearns & Company, Frederick, Detroit, Mich. Preparations in the form of small pills especially for the treatment of dysentery	13,393	June 15	35	1232
Stearns & Company, Frederick, Detroit, Mich. Preparations in the form of pellets especially for use as anodynes	13,394	June 15	35	1232
Stearns & Company, Frederick, Detroit, Mich. Preparations in the form of powders especially for the treatment of fevers	13,395	June 15	35	1232
Stearns & Company, Frederick, Detroit, Mich. Medicines for the treatment of diseases of the blood, fevers, coughs, colds, and catarrh	13,490	July 13	36	124
Stein Bros. & Baumgartl, Chicago, Ill. Whisky	13,861	Dec. 7	37	1006
Stelwagon, John W., Philadelphia, Pa. Certain roofing materials	13,095	Mar. 9	34	1050
Steves & Sons, Ed., San Antonio, Tex. Lumber, doors, and sash	13,059	Feb. 23	34	830
Stewart Healing Powder Company, St. Louis, Mo., and New York, N. Y. Lotion for the face and hands	13,797	Nov. 9	37	570
Stiegler, Xavier, Jne., and J. Cargemel, Bar-le-Duc, Meuse, France. Corsets	13,616	Aug. 24	36	824
Stiger & Co., David M., New York, N. Y. Emulsion of cod-liver oil and plain cod-liver oil	13,190	Apr. 13	35	140
Stiger, Oliver M., New York, N. Y. Tonic	13,023	Feb. 9	34	564
Stollwerck, Gebr., Cologne-on-the-Rhine, Germany. Chocolate and cocoa	13,321	May 18	35	754
Stollwerck, Gebr., Cologne-on-the-Rhine, Germany. Substitute for coffee, tea, and chocolate	13,322	May 18	35	754
Stollwerck, Gebr., Cologne-on-the-Rhine, Germany. Chocolate and cocoa	13,323	May 18	35	754
Storey Bros. & Co., Lancaster, county of Lancaster, England. Oil-cloth for wall-covering	13,764	Oct. 26	37	342
Stowell, O. G., Delavan, Wis. Windmills and tanks	13,097	Mar. 9	34	1050
Straw & Ellsworth Manufacturing Company, Milwaukee, Wis. Hats for men and boys	13,024	Feb. 9	34	564
Strickland & Co., Chicago, Ill. Liquid tonics	13,025	Feb. 9	34	564
Stuhl, David C., Provincetown, Mass. Salt fish	13,221	Apr. 20	35	260
Summerill & Bro., John, South Penn's Grove, N. J. Gilling-thread	13,098	Mar. 9	34	1050
Sunshine Blacking Company, Providence, R. I. Shoe-blacking	13,726	Oct. 12	37	104
Synvita Company, Delphos, Ohio. Astringent medicines	13,850	Dec. 7	37	1006
Synvita Company, Delphos, Ohio. Remedies in solid form for bronchial and other diseases	13,851	Dec. 7	37	1006
Talbot, Edward A., Boston, Mass. Salve or ointment for the cure of catarrh and kindred ailments	13,886	Dec. 14	37	1128
Taylor, Archibald M. (See Osborne and Taylor.)				
Taylor Bros., Rochester, N. Y. Thermometers and barometers	13,480	July 6	36	2
Taylor, Richard, Detroit, Mich. Metal for boxes and journal-bearings	13,026	Feb. 9	34	564
Terry & Shroyer, Dayton, Ohio. Chewing and smoking tobacco	13,222	Apr. 20	35	260
Teufel, Wilhelm, Stuttgart, Germany. Abdominal supporters	13,456	June 29	35	1440
Tibaldi, Domenico C., New Orleans, La. Specific for all affections of the bowels	13,223	Apr. 20	35	260
Tinsley Tobacco Company, Louisiana, Mo. Plug-tobacco	13,887	Dec. 14	37	1128
Todd, Albert M., Nottawa, Mich. Crystals of peppermint-oil and products containing the same	13,191	Apr. 13	35	140
Toledo Spice Company, Toledo, Ohio. Baking-powder	13,027	Feb. 9	34	564
Tomson, Peter C., Philadelphia, Pa. Washing crystal or potash	13,169	Apr. 6	35	2
Towle & Co., P. J., Chicago, Ill. Parched and ground coffees	13,249	Apr. 27	35	390
Towle & Co., P. J., Chicago, Ill. Green and black teas	13,273	May 4	35	504
Trask Fish Company, St. Louis, Mo. Mackerel	13,116	Mar. 16	34	1162
Tressemanes & Vogt, Limoges, France. China-ware	13,224	Apr. 20	35	260
Trout, Zachary T., Girardville, Pa. Dyspepsia-tablets	13,788	Nov. 9	37	570
True, Jacob, Buffalo, N. Y. Medicine for the cure of dyspepsia and all diseases incident thereto	13,557	Aug. 10	36	574
Truefitt, M. R., Brooklyn, N. Y. Kid gloves	13,727	Oct. 12	37	104
Turner, Austin G., New York, N. Y. Cheese	13,888	Dec. 14	37	1128
Turner, Frederick, Philadelphia, Pa. Cigars	13,250	Apr. 27	35	390
Turner, Frederick, Philadelphia, Pa. Cigars	13,765	Oct. 26	37	342
Turner's Falls Cotton Mills, Turner's Falls, Mass. Light cotton cloth	13,749	Oct. 19	37	222
Turner's Falls Cotton Mills, Turner's Falls, Mass. Light-weight cotton goods	13,750	Oct. 19	37	222
Ulmann, Alfred A., Ulmannville, Bay St. Louis, Miss. Stomach bitters and tonic	12,975	Jan. 26	34	344
Unicorn Silk Manufacturing Company, Paterson, N. J. Silk goods, silk threads, twists, and yarns of all kinds	13,340	May 25	35	878
Union Cement Company, East Kingston, N. Y. Hydraulic cement	13,683	Sept. 21	36	1250
Union Stove and Machine Works, Leavenworth, Kans. Stoves and ranges	13,096	Mar. 9	34	1050
United States Torsion Balance and Scale Company, New York, N. Y. Weighing-scales having torsion pivots	13,380	June 6	35	1116
Upton, Charles S., New York, N. Y. Lamps, lamp-burners, and lamp-chimneys	13,775	Nov. 2	37	458
Vacuum Oil Company, Rochester, N. Y. Cylinder-oil	13,365	June 1	35	1006
Valentino, J. Louis, Nashville, Tenn. Chewing-gum	13,274	May 4	35	504
Valentino, J. Louis, Nashville, Tenn. Chewing-gum	13,678	Sept. 21	36	1250
Valls, Guadalupe S., St. Augustine, Fla. Fruit-preserves, lime-juice, fruit-sirups, canned fish, oysters, and turtles	13,051	Feb. 23	34	830
Van Derveer & Holmes Biscuit Company, New York, N. Y. Biscuits, crackers, and wafers	13,587	Aug. 17	36	696
Van Houten & Zoon, C. J., Weesp, Holland. Cocoa and chocolate	13,638	Aug. 31	36	944
Van Pieterson Bros., Milwaukee, Wis. Cigars	13,251	Apr. 27	35	390
Varin, William G., Indianapolis, Ind. Toilet-water and hair-tonic	13,588	Aug. 17	36	696
Veit & Nelson, New York, N. Y. Dry goods	13,935	Dec. 28	37	1360
Villeroy & Boch, Mettlach, Germany. China, stoneware, terra-cotta, and statuary porcelain	13,567	Aug. 10	36	574
Von Monckhoven, Hortense, Ghent, Belgium. Photographic materials	13,766	Oct. 26	37	342
Vorwohler Portland Cement Fabrik, Prüssing, Planck and Company, Holzminden, Germany. Portland cement	13,568	Aug. 10	36	574
Wallach's Nephews, A., New York, N. Y. Gold chains	13,117	Mar. 16	34	1162
Wallgren, John P., Orono, Me. Stove-polish	13,252	Apr. 27	35	390
Walrath, Anna M., Little Falls, N. Y. Remedy for constipation	13,852	Dec. 7	37	1006
Ward, Benjamin, Mobile, Ala. Chewing-gum	13,366	June 1	35	1006
Warner Bros., New York, N. Y. Corsets	13,862	Dec. 7	37	1006
Warner Brothers, New York, N. Y. Corsets	13,492	July 13	36	124
Warner, Hulbert H., Rochester, N. Y. Medicinal preparation of an alterative or tonic character	13,809	Nov. 16	37	678
Warner & Rhodes, Philadelphia, Pa. Canned goods	13,913	Dec. 21	37	1252
Warner, William R., Philadelphia, Pa. Headache cure, an ointment or lotion, and aromatic cachous	13,617	Aug. 24	36	824

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Warner, William R., Philadelphia, Pa. Medicinal preparation for the cure of indigestion, dyspepsia, and other named ailments	13,742	Oct. 19	37	222
Warren, Edward K., Three Oaks, Mich., and Chicago, Ill. Corsets, dress-stiffenings, and waists	13,140	Mar. 30	34	1394
Warren, Edward K., Three Oaks, Mich., and Chicago, Ill. Whips and whip-lashes	13,150	Mar. 30	34	1394
Washburn, Crosby & Co., Minneapolis, Minn. Flour	13,253	Apr. 27	35	390
Washburn Mill Company, Minneapolis and Anoka, Minn. Wheat-flour	13,170	Apr. 6	35	2
Wassmer, Joseph, New York, N. Y. Lager-beer	13,648	Sept. 7	36	1048
Watson, Armstrong & Co., London, England, Paris, France, Portadown and Belfast, Ireland, and New York, N. Y. Table-linens	13,618	Aug. 24	36	824
Watson, Richard H., Philadelphia, Pa. Porcelain square-top water-closets	13,254	Apr. 27	35	390
Watts, Henry D., Philadelphia, Pa. Compound liquors	13,423	June 15	35	1232
Webster, Warren, Philadelphia, Pa. Ventilators for buildings, chimneys, &c	13,501	July 13	36	124
Weedon & Dent, Eufaula, Ala. Pills	13,558	Aug. 10	36	574
Weedsport Skirt and Dress Company, Weedsport, N. Y. Corsets	13,192	Apr. 13	35	140
Weeks Bros., Providence, R. I. Lozenges, wafers, and tablets	13,304	May 11	35	632
Weeks & Co., S. H., New York, N. Y. Oil-meal and flaxseed meal	13,569	Aug. 10	36	574
Wehncke & Co., New York, N. Y. Granulated sugar	13,255	Apr. 27	35	390
Weideman, John J., J. H. Holmes, and V. Fries, Cleveland, Ohio. Whisky	13,669	Sept. 14	36	1154
Weidler, Samuel W., Wyoming, Ohio. Flour	13,889	Dec. 14	37	1128
Weidler, Samuel W., Wyoming, Ohio. Flour	13,976	Dec. 28	37	1360
Weidler, Samuel W., and T. W. Allen, Cincinnati, Ohio. Flour	13,028	Feb. 9	34	564
Weidler, Samuel W., and T. W. Allen, Cincinnati, Ohio. Flour	13,029	Feb. 9	34	564
Weidler, Samuel W., and T. W. Allen, Cincinnati, Ohio. Flour	13,042	Feb. 16	34	704
Weidler, Samuel W., and T. W. Allen, Cincinnati, Ohio. Flour	13,043	Feb. 16	34	704
Weldless Steel Tube Co., Birmingham, county of Warwick, England. Steel and iron tubes	13,767	Oct. 26	37	342
Wells & Co., M. D., Chicago, Ill. Men's and boys' leather boots and shoes	13,525	July 20	36	236
Wells, William T., New York, N. Y. Refined lard	13,385	June 8	35	1116
Wertz & Co., Samuel A., Philadelphia, Pa. Whisky	13,305	May 11	35	632
West India Manufacturing Company, New York, N. Y. Salve	13,041	Feb. 16	34	704
Western Stove Manufacturing Company, St. Louis, Mo. Heating and cooking stoves, including gasoline and oil stoves	12,976	Jan. 26	34	344
Western Stove Manufacturing Company, St. Louis, Mo. Heating and cooking stoves and ranges and gasoline and oil stoves	13,003	Feb. 9	34	564
Wheeler, Frank E. (See Wheeler and Kernan.)				
Wheeler, Parsons & Hayes, New York, N. Y. Finger rings	13,679	Sept. 21	36	1250
Wheeler, Parsons & Hayes, New York, N. Y. Finger-rings	13,705	Oct. 5	37	2
Wheeler, Russel and F. E., and F. Kernan, Jr., Utica, N. Y. Hot-air furnaces	13,099	Mar. 9	34	1050
White Proprietary Company, Peleg, New York, N. Y. Medicinal plasters	13,297	May 11	35	632
White Proprietary Company, Peleg, New York, N. Y. Plasters and medicines for use in the treatment of corns	13,499	July 13	36	124
White Proprietary Company, Peleg, New York, N. Y. Medicated plasters	13,509	July 20	36	236
White, William J., Cleveland, Ohio. Chewing-gum	12,960	Jan. 19	34	254
Whiting, Howard, Brooklyn, N. Y. Perfumery and cosmetics	13,937	Dec. 28	37	1360
Wickham & Co., W. J., Baltimore, Md. Non-alcoholic summer-drink	13,594	Aug. 24	36	824
Wichert, Henry, Chicago, Ill. Pickles and mustard	13,171	Apr. 6	35	2
Widnes Alkali Company, (limited,) Widnes, county of Lancaster, England. Caustic soda and potash, manganate of soda, chlorate of potash, and bleaching-powder	13,938	Dec. 28	37	1360
Wight, George R., New York, N. Y. Refrigerators	12,929	Jan. 5	34	2
Wilbur & Sons, H. O., Philadelphia, Pa. Preparation of chocolate	13,141	Mar. 30	34	1394
Wilcox & Co., W. J., New York, N. Y. Lard	13,728	Oct. 12	37	104
Wilcox & Co., W. J., New York, N. Y. Lard	13,729	Oct. 12	37	104
Wilcox & Co., W. J., New York, N. Y. Lard	13,751	Oct. 19	37	222
Wilkinson Bros. & Co., New York, N. Y. Writing-paper	13,577	Aug. 17	36	696
Winkelmann, John H., Baltimore, Md. Remedy for malaria and fever and ague	13,543	Aug. 3	36	460
Williams Bros., Kent, Ohio. Flour	13,275	May 4	35	504
Williams, Theodore D., Chicago, Ill. Medicine for the treatment of diseases of the digestive and respiratory organs	13,306	May 11	35	632
Willson, Bros. & Co., Harrisburg, Pa. Hay, fodder, and straw cutters	13,082	Mar. 2	34	926
Wilson, Walter G., Philadelphia, Pa. Cakes or crackers designated nuts	13,324	May 18	35	754
Wilson, William C., Philadelphia, Pa. Pocket-battery used as a curative appliance for diseases of the eye, the ear, the nasal organs, &c	13,081	Mar. 2	34	926
Winona Paper Company, Holyoke, Mass. Printing, writing, and book papers	13,463	June 29	35	1440
Wise Brothers, Baltimore, Md. Overalls, drawers, pants, jumpers, blouses, shirts, coats, and other similar garments	13,449	June 22	35	1342
Wittich, Ferdinand, Baltimore, Md. Mustard prepared for table use	13,846	Nov. 30	37	696
Wollensak, John F., Chicago, Ill. Transom-lifters	13,502	July 13	36	124
Wollensak, John F., Chicago, Ill. Transom-lifters	13,503	July 13	36	124
Wood, Pollard & Co., Boston, Mass. Bitters	12,930	Jan. 5	34	2
Wood & Ward, Stephen, Philadelphia, Pa. Towels and tidies	13,700	Sept. 28	36	1360
Woodruff, Henry G., New Brighton, N. Y. Cotton piece-goods	12,949	Jan. 12	34	134
Woodruff & Sons, John, Philadelphia, Pa. Printing-inks	13,810	Nov. 16	37	678
Worcester Corset Co., Worcester, Mass. Corsets	13,743	Oct. 19	37	222
Worthington, S., Springfield, Mass. Fine writing-paper	12,977	Jan. 26	34	344
Worthington, Solomon, Springfield, Mass. Fine writing-paper	13,101	Mar. 9	34	1050
Worthington, Solomon, Holyoke, Mass. Fine writing-paper	13,367	June 1	35	1006
Worthington, Solomon, Holyoke, Mass. Fine writing-paper	13,396	June 15	35	1232
Worthington, Solomon, Holyoke, Mass. Fine writing-paper	13,424	June 15	35	1232
Wortmann & Co., S. B., New York, N. Y. Whisky	13,225	Apr. 20	35	260
Wortmann & Co., S. B., New York, N. Y. Champagne-wine	13,276	May 4	35	504
Wortmann & Co., S. B., New York, N. Y. Whisky	13,277	May 4	35	504
Wright, John, Manchester, England. Cotton fabrics	13,307	May 11	35	632
Wyeth & Bro., John, Philadelphia, Pa. Medicinal pencils	13,278	May 4	35	504
Young & Smylie, Brooklyn, N. Y. Manufactured licorice	13,670	Sept. 14	36	1154
Zane Tobacco Company, Zanesville, Ohio. Plug-tobacco	13,559	Aug. 10	36	574
Zoller, Henry, Baltimore, Md. Canned tomatoes	13,457	June 29	35	1440
Zoller, Henry, Baltimore, Md. Canned corn	13,458	June 29	35	1440

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

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Abbey, Perley L., and W. C. Tuthill, Kalamazoo, Mich. "Kalamazoo Celery Bitters"	4,719	Feb. 9	34	564
Acker, Albert E., Washington, D. C. "Phosphated Iron Tonic"	4,884	June 29	35	1440
Adrot, Christello & Co., Chicago, Ill. "Knights of Labor Soap"	4,901	July 13	36	124
Aitken, Daniel B., Philadelphia, Pa. "Specialty Candy Co. Assorted Box of Popular Cough Candies"	5,009	Nov. 9	37	570
Allen & Co., W. E., Hillsdale, Mich. "The American Circulating Library Co." (for Book Covers)	4,902	July 13	36	124
American Waltham Watch Company, Waltham, Mass. "1 Doz. Main Springs American Waltham Watch Co. Waltham, Mass. U. S. A."	4,944	Aug. 31	36	944
Andrews, Constant A., New York, N. Y. "Jersey Doll." (for Stuffed Dolls made of Jersey Cloth)	4,959	Sept. 14	36	1154
Angelo, Theodore, New York, N. Y. "Bacon's Canadian Emollient"	4,727	Feb. 9	34	564
Arnold Print Works, North Adams, Mass. "Long Cloth" (for Cotton Prints)	4,885	June 29	35	1440
Arnold Print Works, North Adams, Mass. "Fabric" (for Cloth)	4,910	July 20	36	236
Arnold Print Works, North Adams, Mass. "Printed Fabric" (for Cloth)	4,911	July 20	36	236
Arp, Leopold E. L., Kiel, Germany. "Pepsin-Magen-Bittern"	4,874	June 15	35	1232
Auburn Mineral Water Company, Philadelphia, Pa. "Ginger Ale"	4,903	July 13	36	124
Bacharach, Nathan A., Baltimore, Md. "The Part-Payment Clothing Company"	5,027	Nov. 16	37	678
Bailey, Arthur H., Boston, Mass. "Cider Syrup"	4,760	Apr. 6	35	2
Bailey, Harry, Philadelphia, Pa. "Seven Sutherland Sisters' Hair Grower"	4,811	May 4	35	504
Bailey, Harry, Philadelphia, Pa. "Seven Sutherland Sisters' Hair and Scalp Cleaner"	4,812	May 4	35	504
Baldus, William T., Washington, D. C. "Blanchard's Infallible Pectoral Compound"	4,996	Oct. 19	37	222
Bakley, David, Camden, N. J. "Indian Cough Syrup"	4,813	May 4	35	504
Barker, James H., Providence, R. I. "Barker's Universal Malaria Cure"	4,789	Apr. 20	35	260
Barker, Moore & Mein, Philadelphia, Pa. "Vegetable, Horse, Cattle & Poultry Powder"	4,931	Aug. 17	36	696
Barnes, Hollis M., New York, N. Y. "Morgan's Throat Tablets"	5,065	Dec. 28	37	1360
Barrett, Angelica, Le Roy, N. Y. "Dr. Solomon Barrett's Combination Tonic"	4,857	June 1	35	1006
Barrett, Angelica, Le Roy, N. Y. "Dr. Solomon Barrett's Prescription for diseases of the stomach and bowels"	4,932	Aug. 17	36	696
Barrows, Joseph, Philadelphia, Pa. "Barrows' Washing Process." (for Soap)	5,054	Dec. 14	37	1128
Bartlett & Plummer, New York, N. Y. "Coca Wine with Quinine"	4,787	Apr. 13	35	140
Beavers, Christopher, Scranton, Pa. "Beavers's Rheumatic Remedy"	4,806	Apr. 27	35	390
Beck, Charles, Baltimore, Md. "Iron Phosphites." (for a Beverage)	4,858	June 1	35	1006
Beck, Charles, Baltimore, Md. "Phosphates of Iron." (for a Health Drink)	4,865	June 8	35	1116
Beecham, Thomas, St. Helen's, county of Lancaster, England. "Beecham's Patent Pills"	4,957	Sept. 7	36	1048
Beecham, Thomas, St. Helen's, county of Lancaster, England. "Beecham's Cough Pills"	5,004	Oct. 26	37	342
Bemis & Fletcher, Worcester, Mass. "Waverly School Shoe"	5,003	Oct. 19	37	222
Bensing, John, Lebanon, Pa. "French Finishing Oil and Leather Preserver"	5,010	Nov. 9	37	570
Bensing, John, Lebanon, Pa. "The American Water-Proof Oil"	5,055	Dec. 14	37	1128
Berry, Louis M., Chicago, Ill. "Berry's Positive Scale Remover"	5,011	Nov. 9	37	570
Bertram, F. A., Brooklyn, N. Y. "Bertram's Scale Killer" (for a Boiler Cleaning Compound)	5,040	Nov. 30	37	896
Birkenwald & Co., S., Milwaukee, Wis. "No More Dark Lard! No More Dark Tallow!"	4,886	June 29	35	1440
Bolton, Valentine F., Gardner, N. J. "Bolton's Burn Water and Burn Salve, a Quick Cure for Burns and Inflammatory Sores, on Man and Beast"	4,720	Feb. 9	34	564
Bonbright, George C., Harrisburg, Pa. "Yellow Burlap" (for Covers or Bags for Hams and other Pork and Beef Products)	4,759	Mar. 23	34	1280
Boyce, Brothers, Philadelphia, Pa. "The Perfection" (for Candles)	4,866	June 8	35	1116
Brackett Brothers, Ipswich, Mass. "Brackett's Celebrated Cider Bitters"	4,786	Apr. 13	35	140
Bragdon, J. Gaylord, Middletown, Del. "Bragdon's Hog Cholera Specific"	4,978	Oct. 5	37	2
Bubbins, John B., Chicago, Ill. "Bubbin's Great French Oil"	4,728	Feb. 9	34	564
Buntin, William C., Terre Haute, Ind. "Dr. Todd's Tolu & Tar"	4,767	Mar. 30	34	1394
Burke, Edward & John, New York, N. Y., Dublin, Ireland, and Liverpool, England. "E. & J. Burke, Finest Pale Ale"	4,781	Apr. 6	35	2
Cahill, Richard, Brooklyn, N. Y. "The Bristle Whisk Brush"	4,713	Feb. 2	34	440
Canterbury Society of Shakers, Shaker Village, N. H. "Shaker Sarsaparilla Lozenges"	4,721	Feb. 9	34	564
Canterbury Society of Shakers, Shaker Village, N. H. "Corbett's Shakers' Compound"	4,722	Feb. 9	34	564
Capron, Charles L., St. Albans, Vt. "Dr. Bain's Dyspepsia Cure"	4,923	Aug. 3	36	460
Carmen, C. E., Lyons, Ohio. "Carmon's Veterinary Sweating Ointment"	4,979	Oct. 5	37	2
Carpenter & Co., B. W., Burlington, Vt. "Phosphorated Ginger Cream Extract"	4,867	June 8	35	1116
Carpenter, Ezra S., North Cohocton, N. Y. "Emmons' Pain Tincture"	4,701	Jan. 19	34	254
Carter & Churchill, Lebanon, N. H. "Lebanon Overalls"	4,750	Mar. 9	34	1050
Carter & Churchill, Lebanon, Pa. "Railroad Service" (for Overalls)	4,790	Apr. 20	35	260
Cary, Ogden & Parker, Chicago, Ill. "Western Lead Works Strictly Pure White Lead"	4,960	Sept. 14	36	1154
Cassard & Son, G., Baltimore, Md. "Boil until the Smaller Bone in the Hock End Becomes Loose." (for Hams)	5,047	Dec. 7	37	1006
Caswell, Massey & Co., New York, N. Y., and Newport, R. I. "Massey's Elder Flower and Cucumber Cream" (for Cosmetics)	4,751	Mar. 9	34	1050
Chace, Harry P., and G. W. Flood, Highland Falls, N. Y. "Compound White Pine Cough Syrup."	4,791	Apr. 20	35	260
Chace, Harry P., and G. W. Flood, Highland Falls, N. Y. "White Pine and Balsam of Fir Cough Syrup"	4,792	Apr. 20	35	260
Chesapeake Belting Co., Baltimore, Md. "Stitched Canvas Belting"	5,016	Nov. 9	37	570
Chesapeake Belting Co., Baltimore, Md. "Chesapeake Canvas Belting"	5,051	Dec. 7	37	1006
Chichester Chemical Co., Philadelphia, Pa. "Chichesters English." (for Pills)	4,939	Aug. 24	36	824
Church, Melvin B., Grand Rapids, Mich. "Anti-Kalsomine is all the Name implies"	4,743	Mar. 2	34	926
Clapp & Son, Otis, Boston, Mass. "Elixir of Beef"	4,945	Aug. 31	36	944
Clark & Co., S. P., Attleboro, Mass. "Vegetable Nerve Food"	4,933	Aug. 17	36	696
Clark & Co., Samuel P., Attleborough, Mass. "Clark's Tooth Ache Cure"	5,020	Nov. 9	37	570
Clark, Judson S. (See Fowler and Clark.)				
Colby & Buskirk, Downington, Mich. "Wheat Germicelli"	4,913	July 27	36	350
Colman, J. & J., London, England. "Colman's Concentrated Mustard Oil"	5,064	Dec. 21	37	1232
Conner, W. A., Mechanicstown, Md. "We Protect our Trade" (for Cigars)	5,013	Nov. 9	37	570
Cook, John E., Stamford, Conn. "The Plumbers' Purifier and Disinfectant"	5,012	Nov. 9	37	570
Cooke, Thomas B., Baltimore, Md. "Tonic Phosphates"	4,914	July 27	36	350

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Crandall Eben V., Brooklyn, N. Y. "Union Label," (for Whiting and Paris White)	4,904	July 13	36	124
Creveling, A. G., Bloomsbury, N. J. "Hoff's Hair and Scalp Remedy"	4,814	May 4	35	504
Criswell, F. M., Washington, D. C. "Phosphated Ginger Ale"	4,849	May 25	35	878
Criswell, F. M., Washington, D. C. "Lactated Ginger Ale"	4,850	May 25	35	878
Cronk, Albert. (See West and Cronk.)				
D'Alton & Bain, Petersburg, Va. "D'Alton & Bain" (for Ginger Ale, Soda Water, and Sarsaparilla)	4,734	Feb. 16	34	704
D'Alton & Son, Petersburg, Va. "D'Alton & Son," (for Beer)	4,815	May 4	35	504
Dabbs Brothers, Philadelphia, Pa. "Medicated Cough Pastilles"	5,033	Nov. 23	37	788
Dabney, Tyree J., Atlanta, Ga. "Oatmeal Bitters" (for a Proprietary Medicine)	4,859	June 1	35	1006
Dahl, Harald A. C., Brooklyn, N. Y. "Dahls Dyspepsia Cake Manufacturing Company," (for Bread)	4,940	Aug. 24	36	824
Davis, Cornelius E., St. Helena, Cal. "Pure Sea Shell" (for a Tooth Powder)	4,817	May 4	35	504
Davis, Isaac, Dayton, Ohio. "Isaac Davis" (for Distilled Petroleum)	4,816	May 4	35	504
Davis, Leonard C., Philadelphia, Pa. "Belmont Chemical Illuminator" (For Burning Fluid)	4,915	July 27	36	350
De Kalb, H. L., Bustleton, Pa. "De Kalb's Lactated Soda Mint Tablets"	4,793	Apr. 20	35	260
De Kalb, H. L., Bustleton, Pa. "De Kalb's Sulphur Pills"	4,839	May 18	35	754
Deitz, John, St. Louis, Mo. "Union Cigar Maker's Label, of Cigar Maker's Union No. 44 of St. Louis, Mo., of the Cigar Maker's International Union of America"	4,905	July 13	36	124
Deming, Arthur B., Chicago, Ill. "Deming's Charcoal," (not Willow, very much better)	4,961	Sept. 14	36	1154
Detchon, Elliott, Crawfordsville, Ind. "Woolford's Sanitary Lotion"	4,840	May 18	35	754
Detchon, Elliott, Crawfordsville, Ind. "The Great South American Nervine Tonic and Stomach and Liver Cure"	4,875	June 15	35	1232
Detchon, Elliott, Crawfordsville, Ind. "English Spavin Liniment"	4,987	Oct. 12	37	104
Dierlamm, Henry, Waterloo, Ontario, Canada. "Diphtheria Remedy"	4,714	Feb. 2	34	440
Dillard, William W., Fort Scott, Ark. "W. W. Dillard" (for Manufactured Tobacco)	4,819	May 4	35	504
Dirksen, Hermann, New York, N. Y. "Dirksen's Pure Insect Powder"	4,841	May 18	35	754
Donnell, William, Peabody, Mass. "Donnell's Standard Household Ammonia"	4,927	Aug. 10	36	574
Dort & Co., Geo. G., Keene, N. H. "Dr Marissal's Prescription," (for a Cough Medicine)	5,066	Dec. 28	37	1360
Dowden & Co., J. B., Richmond, Va. "Dowden's Dental Fluid"	4,760	Mar. 23	34	1260
Downer, Chester, Boston, Mass. "Baldwin Mineral Springs Water"	4,894	July 6	36	2
Downs & Finch, New York, N. Y. "Dickey," (For an Article of Personal Apparel)	5,005	Oct. 26	37	342
Downs, Lewis A., Chicago, Ill. "Downs' Self Adjusting Corset"	5,021	Nov. 16	37	678
Drake, Reason, La Grange, Ind. "Rheumatic Specific"	4,756	Mar. 16	34	1162
Dryfoos & Co., L., New York, N. Y. "Our Extra" (for Skirts)	4,744	Mar. 2	34	926
Du Pont & Co., Louisville, Ky. "Hagley Mills" (for Writing Paper)	4,807	Apr. 27	35	390
Du Pont & Co., Louisville, Ky. "Lenni Mills" (for Writing Paper)	4,808	Apr. 27	35	390
Duffy Malt Whiskey Company, Baltimore, Md. "Duffy Malt Whiskey Company," (for a Medical Compound)	4,851	May 25	35	878
Duncan, Charles S. (See O'Neal and Duncan.)				
Duncan, W. M. (See O'Neal and Duncan.)				
Dunn, Thomas B., Rochester, N. Y. "Domestic Package Dyes"	4,916	July 27	36	350
Dyer, John F., Burnham, Me. "Dr. D. Dyer," (for Gelatin or Sugar-Coated Pills)	4,761	Mar. 23	34	1280
Dyer, John F., Burnham, Me. "Dr. D. Dyer's Gelatin or Sugar-Coated Headache, Dyspeptic and Liver Pills"	4,762	Mar. 23	34	1280
Eastern Distilling Company, New York, N. Y. "Eastern Distilling Co's D. D. Rye Gin"	4,699	Jan. 12	34	134
Eastman & Co., J. D., Deer Lodge, Mont. Ter. "Oregon Grape Root Bitters"	4,737	Feb. 23	34	830
Eastman Dry Plate and Film Company, Rochester, N. Y. "Permanent Chloride Paper"	4,702	Jan. 19	34	254
Eastman Dry Plate and Film Company, Rochester, N. Y. "Cooper's Improved Developer" (for Photographic Plates and Films)	4,749	Mar. 2	34	926
Eastman Dry-Plate and Film Company, Rochester, N. Y. "Web-Holder," (for Apparatus for Exposing Photographic Paper or Films)	4,842	May 18	35	754
Eight Hour Tobacco Company, Quincy, Ill. "Eight Hour Tobacco"	4,860	June 1	35	1006
Erb, Jacob, Philadelphia, Pa. "Chemical and Vegetable Combination" (for a Burning Fluid)	5,028	Nov. 16	37	678
Estes & Sons, E. B., New York, N. Y. "Estes' Improved Painters Smalt"	5,002	Oct. 19	37	222
Evans, A. G., Bordentown, N. J. "Arnold's Celebrated Chill Pills"	5,034	Nov. 23	37	788
Fairfield, Albert A., Battle Creek, Mich. "The Indelible Crayon"	4,695	Jan. 12	34	134
Fay, Hiram G., Albany, N. Y. "Howard's Compound Soap"	4,729	Feb. 16	34	704
Fletcher Manufacturing Company, Providence, R. I. "Heavy Round Corset Laces"	4,876	June 15	35	1232
Fletcher Manufacturing Company, Providence, R. I. "Heavy Flat Corset Laces"	4,877	June 15	35	1232
Flood, George W. (See Chace and Flood.)				
Floyd, Albion W., Albany, N. Y. "The "No. 1" Sick Headache Remedy"	5,067	Dec. 28	37	1360
Flynn, Peter H., Fresno, Cal. "Blood Purifier for the Horse"	4,962	Sept. 14	36	1154
Foorman, Eli. Eaton, Ind. "Foorman's Stock Remedy, Manufactured by Eli Foorman, Eaton, Ind"	4,994	Oct. 12	37	104
Fountain, William C. (See Kerley and Fountain.)				
Fowler, Ralph P., Waterloo, Iowa. "Fowler's Chilblain Cure"	4,928	Aug. 10	36	574
Fowler, William J., and J. S. Clark, Calais, Me. "Dr. H. B. Knowles' Cough Syrup"	4,958	Sept. 7	36	1048
France, Thomas J., Brooklyn, N. Y. "Rose-Sandal" (for Perfumes)	4,723	Feb. 9	34	564
Fryer, Derrick F., Oroville, Cal. "Abietene Cough Balsam"	4,745	Mar. 2	34	926
Ganter, L. F., Glasgow, Ky. "L. F. Ganter's Tooth Ache Cure"	4,925	Aug. 3	36	460
Ganter, L. F., Glasgow, Ky. "L. F. Ganter's Chicken Cholera Cure"	4,946	Aug. 31	36	944
Garth, George S., Bald Eagle, Pa. "Try me," (for Straw Cutters)	5,048	Dec. 7	37	1006
Gatchel, Edmund R., Philadelphia, Pa. "Goddard's Cough Syrup"	4,986	Oct. 5	37	2
Gem City Tobacco Works, Quincy, Ill. "Oyster Ping" (for Tobacco)	4,746	Mar. 2	34	926
Gilbert, Frank E., New York, N. Y. "Gemuse," (for a Medicinal Compound)	4,924	Aug. 3	36	460
Goebner, Gustav A., Chicago, Ill. "Liquid Opaque" (for a Coating for Photographic Negatives)	4,929	Aug. 10	36	574
Gradle & Strotz, Chicago, Ill. "Gold Star." (for Smoking Tobacco)	5,052	Dec. 7	37	1006
Graff & Dannenbaum, Philadelphia, Pa. "Levulose Ferride," (For a Medical Preparation of Iron)	5,015	Nov. 9	37	570
Gray, Henry V., Roanoke, Va. "Gray's Arsenicated Emulsion of Pure Norwegian Cod Liver Oil"	4,794	Apr. 20	35	260
Green, Samuel, New York, N. Y. "Chenille Art Appliqués" (for Chenille Ornaments)	5,014	Nov. 9	37	570
Greene, Tweed & Co., New York, N. Y. "The Old Style Belt Stud"	4,947	Aug. 31	36	944
Greene, Tweed & Co., New York, N. Y. "Blake's Pattern Belt Stud"	4,967	Sept. 21	36	1250
Greene, Tweed & Co., New York, N. Y. "The Improved Belt Stud"	4,968	Sept. 21	36	1250
Greifenberg, Carl, Brooklyn, N. Y. "Deutsch-Amerikanische (Union Printer) Typographia" (for Printed Matter)	4,895	July 6	36	2
Griggs, Allen G., Ottawa, Ill. "Dr. Bigelow's Stomach and Liver Pills"	4,870	June 15	35	1232
Grinnell, G. F., Mount Pleasant, Mich. "G. F. Grinnell's Balsam"	4,825	May 11	35	632
Grover, Charles S., Lynn, Mass. "Soft Shoes for Tender Feet"	4,747	Mar. 2	34	926
Halliday, Thomas W., Mansfield, Mass. "Honey Extract" (for a Cough Sirup)	4,757	Mar. 16	34	1162
Ham Manufacturing Company, C. T., Rochester, N. Y. "Tubular Square Lamp No. 6"	5,056	Dec. 14	37	1128
Ham Manufacturing Company, C. T., Rochester, N. Y. "Tubular Square Lamp No. 7"	5,057	Dec. 14	37	1128
Ham Manufacturing Company, C. T., Rochester, N. Y. "Tubular Square Lamp No. 8"	5,058	Dec. 14	37	1128
Ham Manufacturing Company, C. T., Rochester, N. Y. "Square Street Lamp No. 10"	5,059	Dec. 14	37	1128
Ham Manufacturing Company, C. T., Rochester, N. Y. "Globe Street Lamp No. 9"	5,060	Dec. 14	37	1128

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Hance, Robert A., Philadelphia, Pa. "Beef with Whiskey." (for a Medical Preparation)	4,969	Sept. 21	36	1250
Hance, Robert A., Philadelphia, Pa. "Caro Cum Spiritu Frumenti." (for a Medical Preparation of Beef and Whisky)	4,972	Sept. 28	36	1360
Harris, George E., New York, N. Y. "Harris' English Polish"	4,861	June 1	35	1006
Harvey, John W., Sunset, Tex. "Dr. Harvey's Tobacco Antidote"	4,948	Aug. 31	36	944
Haswell, William S., Denver, Colo. "Coca-Phosphates"	4,843	May 18	35	754
Hatch, James L., Rochester, N. Y. "The Hatch Counter," (for Boots and Shoes)	4,852	May 25	35	878
Hatch, James L., Rochester, N. Y. "The Hatch Counters," (for Counters for Boots and Shoes)	4,871	June 15	35	1232
Heath, Francis J., Victor, N. Y. "Mrs Clayton's Family Medicine"	4,715	Feb. 2	34	440
Hegeman & Co., New York, N. Y. "Rudolph's Soluble Iron Pills"	4,735	Feb. 16	34	704
Hegeman & Co., New York, N. Y. "Rudolph's Great English Blood Purifier"	4,896	July 6	36	2
Hegeman & Company, New York, N. Y. "Tonic Phosphates Pills"	5,006	Oct. 26	37	342
Helmbold, Albert L., Philadelphia, Pa. "Jelly of Glycerine and Roses"	4,887	June 29	35	1440
Henninger, J. G., Hamilton, Ohio. "Emrick's Compound" (for Preventing and Curing Disease in Hogs and Poultry)	4,752	Mar. 9	34	1050
Hochstadter & Co., New York, N. Y. "Leipziger Burgunder Wein Bitter"	4,768	Mar. 30	34	1394
Hoit, Lewis B., Concord, N. H. "Mrs. L. D. Boynton's Family Salve"	4,934	Aug. 17	36	696
Hood, Bonbright & Co., Philadelphia, Pa. "Bristol Mfg. Co" (for Ingrain Carpets)	4,738	Feb. 23	34	830
Hopkins, C., West Hoboken, N. J. "Mrs. C. Hopkins' Celebrated Cough Syrup"	4,853	May 25	35	878
Hopkins, John T., Jeffersonville, Ind. "Killing-Red" (for a Paint for Brick Floors and Pavements).	5,038	Nov. 23	37	788
Hoxsie, Anna P., Buffalo, N. Y. "Dr. A. C. Hoxsie's Certain Croup Cure"	4,716	Feb. 2	34	440
Hovt & Co., F., Philadelphia, Pa. "American" (for Perfumery Extract)	4,880	June 22	35	1342
Hubbard, James A., Gelena, Kans. "J. A. Hubbard's Ash Remedy"	4,769	Mar. 30	34	1394
Hughes, Edward P., Zanesville, Ohio. "Dermal Hair Restorer"	4,949	Aug. 31	36	944
Huff, Harriet F., Swedesborough, N. J. "West India Cough Syrup"	4,826	May 11	35	632
Hutchinson & Co., F. S., Enosburg Falls, Vt. "Anti-Apoplectine." (for a Medicine)	5,053	Dec. 7	37	1006
Hutton, Terry J., Fergus Falls, Minn. "The Family Emergency Medicine Chest"	5,063	Dec. 14	37	1128
Impervious Package Company, Keene, N. H. "Impervious Safety Oil Can"	5,049	Dec. 7	37	1006
Inman Brothers, Akron, Ohio. "Cider Preservative"	4,997	Oct. 19	37	222
Ipswich Mills, Ipswich, Mass. "The Ipswich Jersey"	4,891	June 29	35	1440
Ipswich Mills, Ipswich, Mass. "This Black is positively fast and will Not crock." (for Jersey Waists)	4,892	June 29	35	1440
Isaacs & Co., Leon, Philadelphia, Pa. "Stub" (for Falcon Pens)	5,035	Nov. 23	37	788
Jackson, J. E., Woodbury, N. J. "J. E. Jackson's Pleasant Diarrhea Cure"	4,980	Oct. 5	37	2
Jenks & Jefferis, Philadelphia, Pa. "Williams' Emulsion of Cod Liver Oil with Hypophosphite of Lime"	4,732	Feb. 16	34	704
Jewett, Amory, Somerville, Mass. "Jewett's Anti-Friction Bullet Paste"	4,820	May 4	35	504
Jones, William, Collingswood, N. J. "Kalium" (for Spring Water)	4,862	June 1	35	1006
Jung, Louis E., New Orleans, La. "Peychaud's American Aromatic Bitter Cordial"	5,050	Dec. 7	37	1006
Keasbey & Mattison, Philadelphia, Pa. "Coca Caffeine" (for a medicinal preparation)	4,950	Aug. 31	36	944
Keasbey & Mattison, Philadelphia, Pa. "Coca Theine" (for a medicinal preparation)	4,951	Aug. 31	36	944
Keasbey & Mattison, Philadelphia, Pa. "Bromo Theine." (for a medicinal preparation)	4,952	Aug. 31	36	944
Keasbey & Mattison, Philadelphia, Pa. "Bromo Cocaine." (for a medicinal preparation)	4,953	Aug. 31	36	944
Keasbey & Mattison, Philadelphia, Pa. "Bromo Cocaffeine." (for a medicine)	4,963	Sept. 14	36	1154
Keefe, John C., and J. B. Nichols, Milwaukee, Wis. "Nichols' Dyspepsia Specific"	4,739	Feb. 23	34	830
Keeshan, John, Cincinnati, Ohio. "The Sure Cure Kidney & Liver Remedy"	5,029	Nov. 16	37	678
Kelly, A. F., Macon, Ga. "Georgia Climatic Tonic Blood Purifier"	4,740	Feb. 23	34	830
Kelly, Andrew T., Franklin, Ind. "Kelly's Sure Cure Hog and Poultry Remedy"	4,881	June 22	35	1342
Kelner, Ophelia, Conway, Dak. Ter. "Mrs Ophelia Kelner's Vegetable Preparation for the Hair".	5,068	Dec. 28	37	1360
Kerley, Richard M., and W. C. Fountain, St. Louis, Mo. "Dr. J. L. Lighthall's Spanish Oil"	4,821	May 4	35	504
Kessler, Henry, Yreka, Cal. "That Red Liniment"	4,700	Jan. 12	34	134
Kibby, William E., assignor to Monumental Assembly No. 2389, Knights of Labor, Washington, D. C. "K. L." (for Bread)	4,906	July 13	36	124
Kieffer Bros., Syracuse, N. Y. "Kieffer Bros. Manufacturers" (For Packages for Stove Repairs)	5,007	Oct. 26	37	342
Kimball & Co., William S., Rochester, N. Y. "Japanese Cigarettes"	4,985	Oct. 5	37	2
Kimball & Co., William S., Rochester, N. Y. "Chinese Cigarettes"	4,998	Oct. 19	37	222
King, H. W., Indianapolis, Ind. "H. W. King & Co's Health Beverage"	4,988	Oct. 12	37	104
Kingan & Co., Indianapolis, Ind. "Kingan & Co." (for Pork Products)	4,795	Apr. 20	35	260
Kirk & Co., James S., Chicago, Ill. "Our Own American Family Soap"	4,854	May 25	35	878
Kirk & Co., Jas. S., Chicago, Ill. "Cream White Honey." (for Soap)	4,954	Aug. 31	36	944
Kirkwood, Louise J., New York, N. Y. "School Sewing System Box"	4,992	Oct. 12	37	104
Kirtley, William F., Millard, Mo. "Kirtleys Appetizer." (For a medicine)	5,008	Nov. 2	37	458
Klas, Hilarius, Aumsville, Oreg. "The Oregon Peach Bitters"	5,018	Nov. 9	37	570
Klein, Goodhart & Koch, Cleveland, Ohio. "Extension and Adjustable Clothing"	4,703	Jan. 19	34	254
Koenig, Kate L., Philadelphia, Pa. "Sarah Buckby Pearson's Remedy"	4,763	Mar. 23	34	1250
Krug Bros., Richmond, Va. "Marion." (for Cigars)	4,999	Oct. 19	37	222
Lahy, Robert H., East New York, N. Y. "Roberts Positive Cure for Rheumatism"	4,712	Jan. 26	34	344
Laby, Robert H., New York, N. Y. "Condition Powders for Horses, Cattle and Swine"	5,041	Nov. 30	37	896
Larrabee & Co., E. J., Albany and New York, N. Y. "Larrabee's Snow Flake Biscuits"	4,770	Mar. 30	34	1394
Larrabee & Co., E. J., Albany and New York, N. Y. "Larrabee's Snow Flake Biscuits"	4,771	Mar. 30	34	1394
Le Page's Liquid Glue & Cement Co., Gloucester, Mass. "Le Page's Improved Liquid Glue, Manf'd by Le Page's Liquid Glue & Cement Co."	5,042	Nov. 30	37	896
Le Page's Liquid Glue & Cement Co., Gloucester, Mass. "Le Page's Improved Liquid Glue for Family Use"	5,043	Nov. 30	37	896
Le Page's Liquid Glue & Cement Co., Gloucester, Mass. "Le Page's Improved Liquid Glue, It Sticks everything, Ornaments, Leather, Glass, Marble, &c"	5,044	Nov. 30	37	896
Le Page's Liquid Glue & Cement Co., Gloucester, Mass. "W. N. Le Page's Improved Carriage Glue"	5,045	Nov. 30	37	896
Leonard & Co., Minneapolis, Minn. "Leonards Hamburg Corn Remover"	4,878	June 15	35	1232
Lesher, Whitman & Co., New York, N. Y. "Paris Braid Gold Medal"	4,782	Apr. 6	35	2
Lesher, Whitman & Co., New York, N. Y. "Clothier's Best Linen Thread"	4,872	June 15	35	1232
Lester & Co., Binghamton, N. Y. "Strongest Made Lester Boot"	4,753	Mar. 9	34	1050
Levalley, Christopher W., Milwaukee, Wis. "Levalley Power Transmitting Chain"	4,879	June 15	35	1232
Lightbill, August P., Boston, Mass. "Magnetic Vitalizer," (for Magnetic Appliances)	4,917	July 27	36	350
Lightbill, August P., Boston, Mass. "Witch Hazel Ointment"	4,918	July 27	36	350
Lingman, Hymen L., Philadelphia, Pa. "Paged or Numbered." (for Writing Pads or Tablets)	4,868	June 8	35	1116
Lobben, Peder J., Worcester, Mass. "Warren's Standard Treeing Composition"	4,704	Jan. 19	34	254
Luden, Jacob C., Reading, Pa. "Jacob C. Luden's Gold Plating Solution"	4,827	May 11	35	632
Lyon, Whitney, Brooklyn, N. Y. "Lyon's Face Powder."	4,941	Aug. 24	36	824
Manahan, Margaret E., New York, N. Y. "Manahan's Double-Strength Pure Pine Tar Oakum Paper, for Preventing Moths"	4,888	June 29	35	1440
Manhattan Watch Company, New York, N. Y. "M. W. Co. Ship Time." (for Watch Dials)	4,970	Sept. 21	36	1250
Mann, Abram S., Rochester, N. Y. "Roller Lacing" (for Corsets, Gloves, Shoes, &c)	4,897	July 6	36	2
Mann, Abram S., Rochester, N. Y. "Roller Corset"	4,898	July 6	36	2

Alphabetical list of registrants of labels—Continued.

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Mann Brothers, Milwaukee, Wis. "Mann Bro's Dowel Ware." (for Wooden Pails, Tubs, &c)	4,863	June 1	35	1006
Marceau, Theo. C., Cincinnati, Ohio. "Permanent Photo Crayon." (for Photographs)	4,989	Oct. 12	37	104
Mark, George, West Troy, N. Y. "Ground Finishing Lily White Lime"	4,882	June 22	35	1342
Masten, Cornelius E., Boston, and B. T. Wells, Newton, Mass. "American Cannon Cracker." (for Fire-Crackers)	4,942	Aug. 24	36	824
Masten, Cornelius E., Boston, and B. T. Wells, Newton, Mass. "American Maroon Cracker." (for Fire Crackers)	4,993	Oct. 12	37	104
Matson, Charles J., Meadville, Pa. "Florida Cough Balm and Liniment"	4,754	Mar. 9	34	1050
Mayer Brothers & Co., Cincinnati, Ohio. "Oakwood" (for Whisky)	4,889	June 29	35	1440
McDermott, Luke, Amsterdam, N. Y. "Dr. Salfort Gregory's Powder"	4,796	Apr. 20	35	260
McIntosh, Frederick, Cleveland, Ohio. "Holloway's German Tonic"	4,890	June 29	35	1440
McMillen, M. W., Milwaukee, Wis. "Manford's White Pine Cordial"	4,919	July 27	36	350
McMillen, M. W., Milwaukee, Wis. "McMillen's White Pine Cough Cordial"	4,995	Oct. 12	37	104
Medinus & Iten, Chicago, Ill. "Hog Cholera Medicine"	4,920	July 27	36	350
Metzger, William J., Minneapolis, Minn. "F. H. Metzger's Pain Eradicator"	4,717	Feb. 2	34	440
Meyer & De Esterre, Brooklyn, N. Y. "Improved Seltzer"	4,818	May 4	35	504
Miller, Robert T., Sedalia, Mo. "Harris' Cough Bitters"	4,764	Mar. 23	34	1280
Monumental Assembly No. 2389, Knights of Labor. (See Kibby, William E., assignor.)				
Morgan Envelope Company, Springfield, Mass. "Change 50c." (for Change Envelopes)	4,981	Oct. 5	37	2
Morgan Envelope Company, Springfield, Mass. "Change 1.00" (for Change Envelopes)	4,982	Oct. 5	37	2
Morgan Envelope Company, Springfield, Mass. "Change 25c." (for Change Envelopes)	4,983	Oct. 5	37	2
Morgan, Robert W., Lynchburg, Va. "Dental Chewing Gum"	4,772	Mar. 30	34	1394
Morgeson, John C., Gainesville, Tex. "Dr. Bomar's American Chill Tonic"	4,797	Apr. 20	35	260
Moschcowitz Brothers, New York, N. Y. "Moschcowitz Improved Bustle Springs"	4,724	Feb. 9	34	564
Murphy, William H., Philadelphia, Pa. "Fish's Sovereign Remedy for Piles"	4,990	Oct. 12	37	104
Myers, Julye, Boston, Mass. "Madame Julye Myers' Flagroot Cordial"	4,798	Apr. 20	35	260
Nichols, John B. (See Keefe and Nichols.)				
Nichols, Mathew S., Plainfield, Conn. "Nichols' Carbolized Tooth Powder"	4,707	Jan. 26	34	344
Nickel Smelting and Peroxide Color Company, New York, N. Y., and Jersey City, N. J. "Peroxide Red Paint"	4,845	May 18	35	754
Norton, H. E., Ironton, Ohio. "Perfect Baking Powder"	4,955	Aug. 31	36	944
O'Neal, Walter H., C. S. and W. M. Duncan, Gettysburg, Pa. "Black Pills"	5,031	Nov. 16	37	678
Palmer, Charles W., New Haven, Conn. "Dr. Jacobs' Bitters"	4,943	Aug. 24	36	824
Partz Electric Battery Company, Philadelphia, Pa. "Sulpho-Chromic Salt"	4,964	Sept. 14	36	1154
Patrick & Co., G. W., Chicago, Ill. "Patrick's Prepared Sanitary Coffee"	5,030	Nov. 16	37	678
Pease, Charles G., New York, N. Y. "Honey, Horehound, Licorice, and Tar." (for Coughs and Colds)	4,748	Mar. 2	34	926
Peeler, Albert, Boston, Mass. "Peeler's Hair Grower"	5,069	Dec. 28	37	1360
Perkins, Elisha H., Baltimore, Md. "Prescription Number 7907"	4,708	Jan. 26	34	344
Perkins, John, Wolverhampton, county of Stafford, England. "Perkins' Infallible Liver Pills"	5,061	Dec. 14	37	1128
Perrine, M. & J. S., Philadelphia, Pa. "Perrine's Pure Barley Malt Whiskey"	5,019	Nov. 9	37	570
Pevey, John M., Lowell, Mass. "Suspenders"	4,765	Mar. 23	34	1280
Pfaudler Vacuum Fermentation Company, Rochester, N. Y. "Fermentation Vacuum Beer"	4,921	July 27	36	350
Plymouth Silica Company, Plymouth and Chiltonville, Mass. "Silica Polish" (for Cleaning and Polishing Compounds)	4,741	Feb. 23	34	830
Potter & Co., Ira H., Watertown, N. Y. "I. A. Potter's New American Strengthening Plaster"	4,809	Apr. 27	35	390
Priestley, John W., Philadelphia, Pa. "Reversible" (for Brussels Carpets)	4,799	Apr. 20	35	260
Priestley, John W., Philadelphia, Pa. "Double Face" (for Tapestry Carpets)	4,800	Apr. 20	35	260
Priestley, John W., Philadelphia, Pa. "Double Face" (for Brussels Carpets)	4,801	Apr. 20	35	260
Priestley, John W., Philadelphia, Pa. "Reversible" (for Tapestry Carpets)	4,802	Apr. 20	35	260
Priestley, John W., Philadelphia, Pa. "Ribbed Carpet"	4,833	May 11	35	632
Priestley, John W., Philadelphia, Pa. "Ribbed Body Brussels Carpet"	4,834	May 11	35	632
Priestley, John W., Philadelphia, Pa. "Ribbed Body Brussels Carpet"	4,835	May 11	35	632
Priestley, John W., Philadelphia, Pa. "Ribbed Carpet"	4,836	May 11	35	632
Priestley, John W., and A. H. Titus, Jr., Philadelphia, Pa. "The Workingman's Beneficial Association." (for Books and Pamphlets)	4,973	Sept. 28	36	1360
Provident Chemical Works, St. Louis, Mo. "Crystalline Phosphate"	4,984	Oct. 5	37	2
Redfield, Paul S., Providence, R. I. "Tonic Comp." (for a Medicine)	5,072	Dec. 28	37	1360
Richter & Co., A. F., Milwaukee, Wis. "Dr. Heim's Stomach Regulator and Blood Purifier"	4,844	May 18	35	754
Rocke, Tompsitt & Co., P. P., Melbourne, Victoria. "Eucalyptus Antiseptic Linseed Meal"	4,837	May 11	35	633
Roderuck, John C., Frederick, Md. "John C. Roderuck's Family Liniment"	4,855	May 25	35	878
Roof, Clarence M., New York, N. Y. "Huile D'Olives Vierge"	4,899	July 6	36	2
Ropes, George F., Salem, Mass. "Cocaine Plasters"	4,822	May 4	35	504
Ross, William S., Pittsburg, Pa. "Ross' Oxygenated Water" (for a Beverage)	4,709	Jan. 26	34	344
Roth & Co., Charles, Louisville, Ky. "Carbonated Sweet Cider"	4,710	Jan. 26	34	344
Rumaldue & Son, J. A., Norfolk, Va. "All Havana" (for Cigars)	4,725	Feb. 9	34	564
Russell, William F., Boston, Mass. "Egg Shampoo Cream"	4,783	Apr. 6	35	2
Sallade & Co., New York, N. Y. "The Magic Mosquito Bite Cure"	4,711	Jan. 26	34	344
Sallade & Eppinger, Chicago, Ill. "Glasscock's Concentrated Cocaine Remedies"	4,718	Feb. 2	34	440
Schoneberger Bros., New York, N. Y. "Dr Brown's Sarsaparilla Tonic"	5,000	Oct. 19	37	222
Schuyler, John, San Bernardino, Cal. "Schuyler's Pile Panacea"	4,930	Aug. 10	36	574
Scotch Oats Essence Co., New York, N. Y. "Dr. Buckland's Scotch Oats Essence"	4,803	Apr. 20	35	260
Seabury & Johnson, New York, N. Y. "What to do in Cases of Poisoning" (for an Accident Case)	5,046	Nov. 30	37	896
Seaver, De Witt C. and M. B., Rock Island, Ill. "Seaver's Uterine Lotion"	4,784	Apr. 6	35	2
Seaver, Mary B. (See Seaver, De Witt C. and M. B.)				
Seeley, Isaac B., Philadelphia, Pa. "The Philadelphia Pruning Shears"	4,785	Apr. 6	35	2
Seeley, Isaac B., Philadelphia, Pa. "Toboggan" (for a Sleigh-Shoe in the Shape of a Toboggan)	4,838	May 11	35	632
Shepard, L. C., Nicholville, N. Y. "Shepard's Condition Powders"	4,908	July 13	36	124
Shotwell & Co., Geo. W., Centralia, Ill. "G. W. Shotwell & Co's Cereal Compound" (for the Lungs)	4,696	Jan. 12	34	134
Shufelt, Henry M., New York, N. Y. "Shufelt's Dyspepsia Cure"	4,909	July 13	36	124
Smith, Anna M., Philadelphia, Pa. "Smith's Remedies"	5,037	Nov. 23	37	788
Smith, Flavius J., Austin, Tex. "The Great Ante-Anthrax Remedy"	4,900	July 6	36	2
Smith, George E., Laurel, Del. "Smith's Chill Syrup"	5,022	Nov. 16	37	678
Spear, Benjamin, Springfield, Mass. "The Spear Perfect Fertilizer"	4,698	Jan. 12	34	134
Springfield Paper Company, Rainbow, Conn. "Fibre Label" (for Paper)	4,755	Mar. 9	34	1050
Stacy, George G., Boston, Mass. "The Moravian Instant Relief from Pain"	5,023	Nov. 16	37	678
Stafford, Milton, Victor, N. Y. "Stafford's Vegetable Blood Purifier"	4,766	Mar. 23	34	1280
Stevenson, Rollin E., New York, N. Y. "Fowler's Compound Syrup Hypophosphites"	4,773	Mar. 30	34	1394
Stevenson, Rollin E., New York, N. Y. "Dr. La Tour's Hospital Injection"	4,774	Mar. 30	34	1394
Stevenson, Rollin E., New York, N. Y. "The Great English Remedy, Dr. Fowler's Kidney Cure"	4,775	Mar. 30	34	1394
Stevenson, Rollin E., New York, N. Y. "Dr. Parker's Vegetable Cure"	4,776	Mar. 30	34	1394
Stout, John R., Brooklyn, N. Y. "Method of Packing Confectionery"	4,974	Sept. 28	36	1360
Strauss, George A., Baltimore, Md. "Tonic Milk Phosphates or Chemical Food"	4,926	Aug. 3	36	460
Strontia Spring Company, Baltimore, Md. "Strontia Mineral Spring Water"	4,697	Jan. 12	34	134

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Official Gazette. Page.
Sugnet, Frank. (See Witherspoon and Sugnet.)				
Sutorius, Paul, Brooklyn, N. Y. "Chocolat Porto Cabello"	5,036	Nov. 23	37	788
Swords, James E., Ladonia, Tex. "Universal Cure or Panacea"	5,070	Dec. 28	37	1360
Tarrant & Company, New York, N. Y. "Grape Phosphates"	4,823	May 4	35	504
Taylor, W. Scott, Trenton, N. J. "De Kalb's Pennyroyal Pills"	4,730	Feb. 16	34	704
Thiele, Emil, Chicago, Ill. "Dr. Alberti's Tea"	4,810	Apr. 27	35	390
Thompson, Charles A., Irwin, Pa. "Wei de Lesseps' Norman Balsam"	4,956	Aug. 31	36	944
Thompson, William R., Columbus, Ohio. "Dr. Lloyd's Family Medicine"	4,975	Sept. 28	36	1360
Thorn, Isaac B., Brattleborough, Vt. "Thorn's Hop and Burdock Tonic"	4,864	June 1	35	1006
Tice, William H., Camden, N. J. "Gutta Percha" (for Roofing)	4,846	May 18	35	754
Ticonderoga Pulp and Paper Company, Ticonderoga and New York, N. Y. "White Railroad Manilla." (for Paper)	4,777	Mar. 30	34	1394
Ticonderoga Pulp and Paper Company, Ticonderoga and New York, N. Y. "White Manilla"	4,778	Mar. 30	34	1394
Titus, Alexander H., Jr. (See Priestley and Titus.)				
Trout, Zachary T., Girardville, Pa. "Trout's Dyspepsia Tablets"	5,062	Dec. 14	37	1128
Trowbridge & Huxley, Brooklyn, N. Y. "Champagne Pop" (for a Beverage)	4,736	Feb. 16	34	704
Tunnard, Robert P., West Troy, N. Y. "Dr. Bury's Reliable Camphor Ointment"	5,024	Nov. 16	37	678
Tunnard, Robert P., West Troy, N. Y. "Dr. Bury's Reliable Lung Balsam"	5,025	Nov. 16	37	678
Tunnard, Robert P., West Troy, N. Y. "Dr. Bury's Reliable Catarrh Snuff"	5,026	Nov. 16	37	678
Tuthill, William C. (See Abbey and Tuthill.)				
Tuthill, William C., Kalamazoo, Mich. "Kalamazoo Celery Tonic"	4,883	June 22	35	1342
Twitchell & Bro., S., Philadelphia, Pa. "Soda Lemonade"	4,856	May 25	35	878
Twitchell & Bro., S., Philadelphia, Pa. "Rose Soda." (for Beverages and Beverage Extracts)	4,965	Sept. 14	36	1154
Twitchell & Bro., S., Philadelphia, Pa. "India Aromatic Ale"	4,966	Sept. 14	36	1154
Utley, Eugene O., New York, N. Y. "Dr. Pope's Bickwell's Cough Syrup"	5,017	Nov. 9	37	570
Vail Brothers, Philadelphia, Pa. "Quinine and Sulphur" (for Soap)	4,779	Mar. 30	34	1394
Van Derveer & Holmes Biscuit Company, New York, N. Y. "Export Soda." (for Crackers)	4,976	Sept. 28	36	1360
Van Pelt, Charles E., Lincoln, Nebr. "Improved German Embrocation"	4,936	Aug. 17	36	696
Van Vliet, William C., New York, N. Y. "The Silk Hat Handkerchief," (for a Prepared Cloth for Polishing Hats)	4,847	May 18	35	754
Van Wert Chemical Co., Watertown, N. Y. "Dr. Van Wert's Balsam for the Lungs"	4,804	Apr. 20	35	260
Virginia Buffalo Lithia Springs Company, New York, N. Y. "Mineral Water"	4,824	May 4	35	504
Wackerbarth & Joseph, New Orleans, La. "Navy Chewing and Smoking Tobacco"	4,893	June 29	35	1440
Wagner, James, New York, N. Y. "Wagner's Dropsy and Kidney Cure"	4,873	June 15	35	1232
Waring Bros., Colora, Md. "Self-Raising Corn Meal"	4,937	Aug. 17	36	696
Warner, William R., Philadelphia, Pa. "Warner & Co's Bromo Soda"	4,912	July 20	36	236
Warner, William R., Philadelphia, Pa. "Inglurin, Prepared from the Ventriculus Callosus Gallinaceus"	5,001	Oct. 19	37	222
Warner, William R., Philadelphia, Pa. "Warner & Co's Effervescing Bromo Potash"	5,039	Nov. 23	37	788
Waters, Edward E., New York, N. Y. "Albumenoid Food"	4,706	Jan. 19	34	254
Weesel, Fred, Newark, N. J. "Weesel's Cough Cordial"	5,071	Dec. 28	37	1360
Wells, Benjamin T. (See Masten and Wells.)				
Wendlandt, Emil, Chicago, Ill. "Cosmétique au Rose"	4,869	June 8	35	1116
West, Lucius B. (See West and Cronk.)				
West, Thomas J. and L. B., and A. Cronk, Detroit, Mich. "Ginger Champagne" (for Ginger Ale)	4,726	Feb. 9	34	564
Westlake, William, Lima, N. Y. "Westlake's Vegetable Ointment"	4,758	Mar. 16	34	1162
Wharton & Co., (limited,) William, Jr., Philadelphia, Pa. "The Durable Shovel"	4,742	Feb. 23	34	830
Whitcomb, Fred L., Boston, Mass. "Iceland Moss" (for a Medicine)	5,032	Nov. 16	37	678
Whitcomb, P. R., New York, N. Y. "Slocum's Coltsfoot Expectorant"	4,971	Sept. 21	36	1250
White Proprietary Company, Peleg, New York, N. Y. "Arnold's Compound Capsicum Plaster"	4,828	May 11	35	632
White Proprietary Company, Peleg, New York, N. Y. "Arnold's Belladonna Plaster"	4,829	May 11	35	632
White Proprietary Company, Peleg, New York, N. Y. "Arnold's Adhesive Plaster"	4,830	May 11	35	632
White Proprietary Company, Peleg, New York, N. Y. "Arnold's Family Mustard Leaves"	4,831	May 11	35	632
White Proprietary Company, Peleg, New York, N. Y. "Arnold's Family Blister Plaster"	4,832	May 11	35	632
White Proprietary Company, Peleg, New York, N. Y. "Pedacura Combination Corn Cure"	4,907	July 13	36	124
White Proprietary Co., Peleg, New York, N. Y. "Pomeroy's Petroline Poroused Plasters"	4,935	Aug. 17	36	696
Witherspoon, Pierre E., and F. Sugnet, Harrison, Mich. "Dr. Witherspoon's Special Formula No. 268"	4,805	Apr. 20	35	260
Whitman & Son, Stephen F., Philadelphia, Pa. "Whitman's Pure Cocoa"	4,991	Oct. 12	37	104
Whitmore, J. E., Rochester, N. Y. "Whitmore's Refined Pancreatic Emulsion"	4,705	Jan. 19	34	254
Whittemore, F. W., Hudson, N. Y. "Whittemore's Sacramento Aque Specific"	4,977	Sept. 28	36	1360
Williamson, Frank G., Pekin, Ill. "Williamson's Cream" (for the Skin)	4,938	Aug. 17	36	696
Wilson & Co., D. G., Theresa, N. Y. "Wilson's Vegetable Oil"	4,731	Feb. 16	34	704
Wolf, Joseph J., Yates Center, Kans. "Sulpho Lotio the Infallible Skin Cure"	4,922	July 27	36	350
Woolson, L. B., Atwater, Minn. "Dr. Woolson's Universal Salve"	4,733	Feb. 16	34	704
Wynn, Lewis D., Sterling, Ill. "Wynn's Stove Polish"	4,788	Apr. 13	35	140
Yerks, James E., New York, N. Y. "Yerks' Shoe Dressing"	4,848	May 18	35	754

DISCLAIMERS.

Name, residence, and invention.	No.	Filed.	Official Gazette. Vol.	Official Gazette. Page.
Gardner, William, Toledo, Ohio, assignor to Pratt and Whitney Company; disclaimer filed by assignee. Machine-gun	174,130	Mar. 11, 1886	34	1162
Haigis, John M., Beaver Falls, Pa.; disclaimer filed by patentee. Grinding-machine	286,429	Nov. 9, 1886	37	678
Roemer, William, Newark, N. J. Lock for satchels	208,541	Jan. 2, 1886	34	134
Straw, Frank L., Boston, and Benjamin F. Sparrow, Cambridge, said Sparrow assignor to Herbert F. Sparrow, Boston, Mass; disclaimer filed by present assignee, American Shoe-Tip Company. Boot and shoe-tip	170,028	Dec. 7, 1886	37	1128
White, Joseph C., New York, N. Y., assignor to Lamson Cash Railway Company, Boston, Mass.; disclaimer filed by assignee. Store service apparatus	229,763	Oct. 1, 1886	37	104
Wollensak, John F., Chicago, Ill.; disclaimer filed by patentee. Transom-lifter. (Reissue)	9,307	Nov 19, 1880	37	896

ALPHABETICAL LIST OF INVENTIONS.

Invention.	Name.	No.	Date.	Monthly volume. Specification.	Monthly volume. Drawing.	Official Gazette. Volume.	Official Gazette. Page.
Abacus	G. W. Bolton and C. H. Tillmeyer	352,218	Nov. 9	731	195	37	600
Abdominal and spinal brace	W. B. Dewees	344,639	June 29	2648	685	35	1519
Abdominal bandage	W. and J. Teufel	347,532	Aug. 17	1480	392	36	753
Abdominal protector	L. J. Wing	351,893	Nov. 2	231	65	37	501
Abdominal support	W. Teufel	344,065	June 22	1854	476	35	1365
Abdominal supporter	I. W. and A. Fox	342,294	May 18	1826	482	35	862
Abrading-cylinder	J. L. Perry	346,681	Aug. 3	290	79	36	517
Abrading-machine	C. K. Bradford	333,991	Jan. 12	679	185	34	135
Abrasive or polishing disk. Flexible	J. W. Byers	336,695	Feb. 23	2307	603	34	871
Accordion	F. Wittstadt	335,552	Feb. 2	646	169	34	556
Accumulator. Differential	E. Boehme	345,360	July 13	778	196	36	146
Acetine-blue colors. Production of	C. Schraube	352,361	Nov. 9	914	.....	37	635
Acid. Apparatus for distributing, &c., liquid carbonic	A. Convert and E. Rueff	334,351	Jan. 12	1227	330	34	235
Acid. Apparatus for making sulphuric	J. Hughes	353,222	Nov. 23	2086	558	37	875
Acid. Apparatus for making sulphuric	J. J. Thyss	349,241	Sept. 14	967	247	36	1229
Acid, &c. Apparatus for the manufacture of sulphurous	E. B. Ritter and C. Kellner	338,557	Mar. 23	2264	595	34	1356
Acid compounds. Manufacture of salicylic	B. Schmitt	338,365	Mar. 23	2010	.....	34	1311
Acid. Making sulphuric	J. Hughes	345,140	July 6	475	121	36	86
Acid. Manufacture of salicylic	R. Schmitt	334,290	Jan. 12	1140	.....	34	220
Acid. Manufacture of sulphuric	U. Cummings	342,785	June 1	16	.....	35	1009
Acid. Pan for concentrating sulphuric	K. J. Sundström	349,414	Sept. 21	1202	311	36	1284
Acid tower. Sulphuric	J. B. F. Herreshoff	335,699	Feb. 9	861	228	34	601
Acids. Apparatus for concentrating	J. Hughes	339,552	Apr. 6	650	157	35	117
Acids. Production of betanaphthol-disulpho	F. Krüger	351,056	Oct. 19	1377	.....	37	264
Adding-machine	B. M. Barnes and C. E. Shapley	344,025	June 22	1794	462	35	1354
Adding-machine	F. A. Bone	351,487	Oct. 26	2007	521, 522	37	385
Adding-machine	E. Halsey	344,180	June 22	2017	516	35	1395
Adding-machine	A. E. Hix	354,789	Dec. 21	1665	440	37	1324
Adding-machine	W. Koch	346,925	Aug. 10	612	164	36	587
Adding-machine	A. Lapeyre	346,927	Aug. 10	616	165	36	587
Adding-machine	L. H. Lewis and P. M. Guerrant	353,318	Nov. 30	2223	595	37	906
Adding-machine	P. T. Lindholm	343,770	June 15	1463	366	35	1285
Adding-machine	T. W. Maxey	335,374	Feb. 2	404	104	34	514
Adding-machine	A. E. Shattuck and C. Thorn, Jr	349,459	Sept. 21	1266	328, 329	36	1296
Adding-machine	L. W. Swem	343,506	June 8	1082	271	35	1210
Adding-machine. Electro-magnetic	C. W. Weiss	348,437	Aug. 31	2786	749, 750	36	1013
Addressing-machine	R. Morgan	342,375	May 25	1960	518	35	894
Addressing-machine	J. A. Truesdell	343,091	June 1	451	115	35	1088
Adjustable chair	G. F. Child	336,387	Feb. 16	1871	490, 491	34	787
Adjustable chair	E. T. Starr	348,173	Aug. 24	2414	646, 647	36	935
Adjustable chair	A. C. Watson	349,129	Sept. 14	817	207	36	1200
Adjustable hanger	C. O. Yale	355,288	Dec. 28	2372	625	37	1472
Advertising apparatus	J. W. Fawkes	336,478	Feb. 16	1998	523	34	809
Advertising apparatus	C. A. Shattuck	342,645	May 25	2343	619	35	964
Advertising attachment for clocks	A. V. Strait	345,739	July 20	1354	353	36	256
Advertising-box	R. P. Beatty	348,611	Sept. 7	111	32	36	1067
Advertising-card	T. W. Bartholomew	354,174	Dec. 14	775	207	37	1155
Advertising-card	W. Homan	354,138	Dec. 14	720	193	37	1145
Advertising-circular	W. Homan	339,889	Apr. 13	1141	284	35	219
Advertising device	W. J. Crane	340,701	Apr. 27	2295	604	35	429
Advertising device	J. W. Knell	346,924	Aug. 10	611	164	36	586
Advertising-machine	J. Castle	340,285	Apr. 20	1710	435, 436	35	317
Advertising medium and card or ticket holder. Combined	H. K. Southland and C. F. Warren	350,022	Sept. 28	2041	527	36	1452
Advertising optical apparatus	A. Duboce	347,926	Aug. 24	2063	547, 548	36	870
Advertising-puzzle	L. O. Granger	344,040	June 22	1820	467	35	1358
Advertising-sign. Rural	J. G. Jory	340,788	Apr. 27	2411	635	35	451
Aerated beverages. Apparatus for manufacturing	O. Brünler	344,562	June 29	2548	658	35	1498
Aerated beverages. Tonic base for	T. S. Nowell	346,824	Aug. 3	455	.....	36	549
Aerated drinks. Portable apparatus for making and supplying	G. W. Chinnery	344,439	June 29	2375	611, 612	35	1467
Aerated-water fountain	J. C. Johnson	353,862	Dec. 7	297	78	37	1061
Aerial navigation	R. Jongewaard	338,173	Mar. 16	1743	455, 456	34	1255
Aerial navigation. Ship for	L. A. Beardsley	336,984	Mar. 2	134	36	34	950
Aerial ship	H. Hunnicutt	334,866	Jan. 26	1920	511	34	377
Aerial vessel	M. S. Cole	352,298	Nov. 9	833	224	37	619
Aerostat. Dirigible	A. H. Hamon	350,303	Oct. 5	270	77	37	55
Aging liquors. Apparatus for	S. G. Cabell	341,727	May 11	1052	279	35	711
Aging spirituous liquors, wines, &c. Apparatus for	H. A. Fitch	334,222	Jan. 12	1037	276	34	201
Agricultural boiler	C. Hefft	340,576	Apr. 27	2116	545	35	400

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Agricultural fork	D. Stotlemeyer	348,300	Aug. 31	2603	700	36	977
Agricultural implement	J. M. Landes	354,324	Dec. 14	997	264 265	37	1194
Agricultural implement	J. D. Scott	337,525	Mar. 9	891	227	34	1092
Agricultural machines. Seat for	W. E. Jacobs	350,135	Oct. 5	49	13	37	12
Air-accumulator. Auxiliary	M. P. Drummey	344,571	June 29	2555	661	35	1500
Air and apparatus therefor. Cooling	S. H. Rouart	349,178	Sept. 14	880	226	36	1212
Air and gas and delivering the mixture to carburetors. Apparatus for mixing	R. S. Lawrence	354,067	Dec. 7	602	165	37	1116
Air and gas. Apparatus for and process of supplying	G. E. Benninghoff	344,616	June 29	2615	678	35	1513
Air and gas compressors. Cylinder for	A. Snyder	351,665	Oct. 26	2268	587	37	434
Air and gas engine	S. Wilcox. (Reissue)	10,750	July 27	2365	606 607	36	450
Air and gas engines. Operating	G. H. Babcock	334,155	Jan. 12	928	251	34	179
Air and other gases. Device for cooling the cylinders of compressors for	W. D. May	354,563	Dec. 21	1329	353	37	1262
Air and steam brake. Automatic	E. J. Cosgrove	343 230	June 8	661	165	35	1135
Air. Apparatus for drying	J. H. Cremer	339,619	Apr. 13	769	190 191	35	142
Air as a motive power. Process of and machine for the use of compressed	F. S. Tull, H. Kuehn, and W. F. Beers.	338,209	Mar. 16	1793	467 468	34	1265
Air-brake	A. G. Easton	354,014	Dec. 7	529	144	37	1103
Air-brake	S. R. Keeland	351,383	Oct. 26	1819	478	37	351
Air-brake	D. T. Perkins	345,537	July 13	1053	268 269	36	195
Air-brake	A. J. Wisner	335,049	Jan 26	2168	576	34	420
Air-brake attachment	E. W. McKenna	348,289	Aug. 31	2584	695	36	974
Air brake. Automatic compressed	A. S. Goode	353,446	Nov. 30	2408	643 644	37	941
Air-brake coupler. Automatic	J. T. Melson	352,927	Nov. 23	1657	445 446	37	793
Air-brake for railway-cars. Electro-magnetically-operated	H. Hollerith	334,020	Jan. 12	719	196 197	34	142
Air-brake for railway-cars. Electro-magnetically-operated	H. Hollerith	334,021	Jan. 12	723	198	34	143
Air-brake for railway-cars. Electro-magnetically-operated	H. Hollerith	334,022	Jan. 12	726	198	34	143
Air-brake valve	T. H. Haberkorn	335,446	Feb. 2	499	130	34	531
Air-brakes. Valve for operating	P. Pickering	334,466	Jan. 19	1388	374	34	272
Air-compressing apparatus	C. M. Fevrot	336,224	Feb. 16	1642	429	34	745
Air-compressor	L. S. Chichester	333,994	Jan. 12	682	186 187	34	136
Air-compressor	H. E. Depp	333,613	Jan. 5	152	41	34	30
Air compressor	G. E. Dow	341,099	May 4	169	51, 52	35	536
Air-compressor	M. Harrold	345,969	July 20	1673	433	36	313
Air-compressor	E. Swartz	342,310	May 18	1846	488	35	866
Air-compressor. Compound	P. L. Weimer	345,752	July 20	1372	357	36	259
Air-compressor. Hydraulic	J. B. Erwin	340,496	Apr. 20	1998	513	35	372
Air-compressor. Hydraulic	E. M. Hugentobler	342,798	June 1	32	9	35	1012
Air-compressor. Hydraulic	W. S. Johnson	349,594	Sept. 21	1444	372	36	1332
Air-compressor. Hydraulic	J. N. McLean	341,673	May 11	981	259 260	35	697
Air-compressor. Hydraulic	W. Thomas	337,209	Mar. 2	434	114	34	1006
Air. Drying compressed	G. R. Cullingworth	355,002	Dec. 28	1958	516	37	1392
Air engine	P. Lochmann	333,644	Jan. 5	191	51, 52	34	38
Air engine	A. K. Rider	345,450	July 13	910	228	36	1286
Air, fluids, and gases. Apparatus for the propulsion, movement, and suction of	C. W. Crossley	336,215	Feb. 16	1629	425	34	743
Air-forcing apparatus	G. Serramoglia	337,447	Mar. 9	792	202	34	1076
Air from liquid-receiving vessels or casings. Exhausting	W. D. Andrews	349,420	Sept. 21	1212	315	36	169
Air-heater	J. L. Wells	344,295	June 22	2178	559	35	1424
Air heating and drying apparatus	S. N. Carvalho	340,760	Apr. 27	2379	627	35	444
Air-heating apparatus for drying-rooms	J. McCann	341,591	May 11	864	230	35	673
Air-moistener	C. W. Monroe	343,720	June 15	1402	349	35	1274
Air-moistening apparatus for factories	W. V. Wallace	335,403	Feb. 2	411	113 114	34	520
Air or gas. Depositing solid particles suspended in	A. O. Walker	342,548	May 25	2204	584	35	938
Air or gas engine	G. H. Babcock	334,152	Jan. 12	915	250	34	178
Air or gas engine	G. H. Babcock	334,153	Jan. 12	919	251	34	179
Air or gas engines. Operating	G. H. Babcock	334,154	Jan. 12	924	251	34	179
Air or other fluid under pressure. Apparatus for exhausting or delivering	H. Davis	354,888	Dec. 28	1803	476 477	37	1363
Air or other gases. Automatic hydraulic compressor of	H. C. Rolf	354,487	Dec. 14	1210	324	37	1234
Air-ship	M. P. Appling	353,193	Nov. 23	2054	548	37	868
Air-ship. Steam	W. Patterson	340,610	Apr. 27	2163	568 569	35	407
Air-tight jar	J. B. Wilson	348,084	Aug. 24	2289	613	36	912
Air ventilator. Warm fresh	A. McArthur	354,161	Dec. 14	753	202 203	37	1150
Air with natural gas. Apparatus for mixing atmospheric	W. Snee	350,849	Oct. 12	1064	284	37	201
Alarm: *See* Boiler water-alarm. Burglar-alarm. Clock-alarm. Door-alarm. Electric alarm. Electric leak-alarm. Feed-water alarm. Fire-alarm. Fire and burglar alarm. Locomotive-whistle alarm. Low-water alarm. Prison, vault, and safe alarm. Railway-switch alarm. Railway-train alarm. Temperature alarm. Water-alarm.							
Alarm	J. R. Branden	354,884	Dec. 28	1796	474	37	1362

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Pages.
Alarm	J. J. Cantelli	352,856	Nov. 16	1556	420	37	764
Alarm apparatus. Automatic	C. L. Horack	340,441	Apr. 20	1912	492	35	356
Alarm for poison-receptacles	O. F. Frost	349,641	Sept. 21	1501	389	36	1344
Alarm-lock	W. G. Bennett	344,806	July 6	5	1	36	3
Alarm-lock	W. G. Bennett	348,262	Aug. 31	2552	686	36	966
Alarm-lock	T. Mabbett, Jr	338,851	Mar. 30	2601	710	34	1430
Alarm-lock	W. P. and J. C. Matson	348,026	Aug. 24	2301	587	36	895
Alarm-lock	M. Pior	336,155	Feb. 16	1531	403	34	726
Alarm service. Municipal	W. A. Stein	333,955	Jan. 5	653	179	34	123
Album	M. E. Sadlon	344,331	June 22	2220	571	35	1431
Album. Scrap-	G. E. Chapman	335,683	Feb. 9	834	221	34	596
Album-stand	F. Seipel	333,763	Dec. 7	153	43	37	1035
Album-stand	T. M. Hass	335,450	Feb. 2	504	131	34	532
Alcohol. Making	C. Ordonneau	347,730	Aug. 17	1773	.....	36	808
Ale, &c. Apparatus for drawing	R. Morrell	340,672	Apr. 27	2252	593	35	422
Ale, beer, and porter. Manufacturing	N. Pigeon and W. L. Flanagan	339,686	Apr. 13	871	.....	35	160
Algin and other useful products	E. C. C. Stanford	349,760	Sept. 28	1688	.....	36	1384
Alkaline material. Apparatus for treating crude	R. G. Neuenschwander	339,681	Apr. 13	865	212	35	159
Alloy	O. M. Thowless	338,347	Mar. 23	1941	.....	34	1299
Alloy	M. A. Wheeler	354,995	Dec. 28	1949	.....	37	1390
Almond-huller	J. Hobart	333,857	Dec. 7	291	77	37	1060
Almond paste. Machine for rolling	M. E. Thieme	333,765	Dec. 7	155	43	37	1035
Altitude-instrument	B. B. Sharp	333,555	Jan. 5	75	22	34	17
Alum. Making porous	C. Semper	315,604	July 13	1146	.....	36	212
Alum. Making porous	C. Semper	345,605	July 13	1147	.....	36	212
Alumina compound. Making a sulphate of-	C. Semper	344,140	June 22	1960	.....	35	1384
Aluminium chloride. Producing anhydrous	E. F. Mabery	351,184	Oct. 19	1551	.....	37	298
Aluminium from aluminous ores and earths. Process of obtaining	F. J. Seymour	337,996	Mar. 16	1514	392	34	1211
Aluminous compounds. Making neutral	F. P. Harned	342,509	May 25	2277	.....	35	951
Amalgamating	B. S. Harback	340,501	Apr. 20	2012	516	35	374
Amalgamating apparatus	J. E. Thielsen, E. L. Giroux, and H. W. Dilg.	337,535	Mar. 9	903	230	34	1094
Amalgamating-pans. Attachment for	J. A. Bidwell	336,692	Feb. 23	2304	602	34	870
Amalgamator	G. S. Armstrong	349,778	Sept. 28	1716	443	36	1389
Amalgamator	B. Beaupre and J. C. Meloy	339,842	Apr. 13	1080	269	35	198
Amalgamator	H. Cook	351,580	Oct. 26	2146	556	37	411
Amalgamator	B. S. Harback	340,874	Apr. 27	2537	665	35	471
Amalgamator	E. J. Rowe, R. Holmes, and E. W. Wells.	354,809	Dec. 21	1689	446	37	1329
Amalgamator	H. M. Thompson	346,517	Aug. 3	87	23, 24	36	477
Amalgamator	B. Tyson	342,272	May 18	1782	472	35	855
Amalgamator	J. W. Van Brocklin	341,863	May 11	1226	328	35	745
Amalgamator	J. Wilkins	346,970	Mar. 2	115	32	34	946
Amalgamator	J. Wilkins	345,096	July 6	414	106	36	75
Amalgamator and concentrator. Combined	B. Tyson	344,797	June 29	2854	739	35	1557
Amalgamator and separator. Dry ore	O. Matzke	349,442	Sept. 21	1243	322	36	1291
Ammeter	J. A. Barrett	336,688	Feb. 23	2300	601	34	869
Ammonia and illuminating gas from tank-waters. Obtaining	J. Van Ruymbeke	351,412	Oct. 26	1898	.....	37	364
Ammonia. Apparatus for making	D. Jarves	344,184	June 22	2023	517	35	1396
Ammonia in ammonia-soda manufacture. Recovery of	E. W. Parnell and J. Simpson	343,675	June 15	1318	.....	35	1259
Ammonia in engines. Utilizing aqua-	J. H. Campbell	346,425	July 27	2310	595	36	441
Ammonia. Manufacturing	A. Feldmann	337,387	Mar. 9	680	.....	34	1058
Ammonia. Process of obtaining	J. Van Ruymbeke	342,237	May 18	1725	459	35	845
Ammonia-soda process	E. W. Parnell and J. Simpson	343,673	June 15	1315	329	35	1258
Ammoniacal liquor. Apparatus for concentrating	C. W. Isbell	341,578	May 11	850	226	35	671
Ammoniacal liquor. Concentrating	C. W. Isbell	351,865	Nov. 2	197	55	37	495
Ammonium bichromate. Manufacturing	W. Simon	342,647	May 25	2344	.....	35	964
Ammonium sulphide to obtain hydrogen sulphide. Treating	E. W. Parnell and J. Simpson	343,674	June 15	1317	.....	35	1259
Ampère-meter	E. Weston	348,648	Sept. 7	157	43	36	1076
Anchor	J. Barton	341,872	May 18	1245	333	35	756
Anchor	O. Durbank	335,561	Feb. 9	663	175	34	566
Anchor	T. S. Calpin	337,241	Mar. 2	479	126	34	1014
Anchor	R. R. Spedden	347,972	Aug. 24	2134	568	36	882
Anchor for anchoring vessels	F. D. Montague	352,481	Nov. 9	1059	285	37	664
Anchor or drogue. Sea-	H. Schoening	346,689	Aug. 3	299	82	36	519
Anchor-tripper	J. F. Bartlett	343,657	June 15	1291	324	35	1255
Animal-assorting device	C. F. Shedd	342,077	June 1	281	73	35	1057
Animal-bit	W. D. Harmon	345,051	July 6	355	89	36	65
Animal-catching device	C. F. Morley	338,606	Mar. 23	2331	610	34	1367
Animal-exterminator	H. Esborn	345,373	July 13	796	200	36	149
Animal-releasing device	A. Jacobson	347,807	Aug. 24	1882	502	36	837
Animal releasing device	J. Miller	345,799	July 20	1440	373	36	272
Animal-releasing device	J. Pehrs	354,023	Dec. 7	542	147	37	1105
Animal-shears	J. J. Harrell	343,240	June 8	678	168	35	1138
Animal-shears	S. D. and D. E. Paxton and A. Mahurin.	342,129	May 18	1594	426	35	821
Animal-stock	J. F. Hine	346,285	July 27	2114	544	36	405
Animal-trap	J. Bean	353,657	Dec. 7	5	2	37	1008
Animal-trap	A. Becker	352,800	Nov. 16	1489	401	37	752
Animal-trap	C. Bruckart	344,939	July 6	197	50, 51	36	36
Animal-trap	S. Dennis	354,509	Dec. 21	1389	368	37	1273
Animal trap	L. F. Dunn	335,512	Feb. 2	586	153	34	545
Animal-trap	J. C. Gould	340,714	Apr. 27	2313	609	35	432
Animal-trap	L. J. Hauserman	336,998	Mar. 2	154	42	34	953
Animal-trap	C. A. Holland	351,510	Oct. 26	2042	530	37	392
Animal-trap	E. S. Hotchkiss	355,016	Dec. 28	1980	521	37	1395
Animal-trap	E. S. Hotchkiss	355,017	Dec. 28	1981	521, 522	37	1396
Animal-trap	J. Kemp	351,923	Nov. 2	223	79	37	509
Animal-trap	I. S. Krick	334,784	Jan. 26	1816	481	34	359

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Animal-trap	G. A. and A. A. Long	335,081	Jan. 26	2212	587 / 588	34	429
Animal-trap	R. Matthai	350,261	Oct. 5	219	64	37	46
Animal-trap	W. E. Maultby	334,259	Jan. 12	1102	295	34	212
Animal-trap	D Phillips	335,039	Jan. 26	2152	573	34	418
Animal-trap	H. J. Seymour	344,994	July 6	285	72	36	52
Animal-trap	J. J. Skinner	351,807	Nov. 2	110	31	37	478
Animal-trap	J. J. Skinner	351,808	Nov. 2	111	31	37	479
Animal-trap	J. J. Skinner	351,810	Nov. 2	114	32	37	479
Animal-trap	S. Snell	344,551	June 29	2537	655	35	1496
Animal-trap	A. A. Taubeneck	348,703	Sept. 7	237	63	36	1090
Animal-trap	G. F. Voester	334,096	Jan. 12	839	229	34	163
Animal trap	W. B. Wiggins	340,269	Apr. 20	1685	430	35	313
Animal-trap	F. J. Williams	351,678	Oct. 26	2289	593	37	438
Animal-trap	N. W. Wortham and J. I. J. Bell	352,598	Nov. 16	1212	329	37	700
Animals. Blanket for	W. B. Logan	352,470	Nov. 9	1048	282	37	662
Animals. Device for exterminating ground-burrowing	M. Scholl	344,682	June 29	2698	700	35	1528
Animals. Device for releasing	A. C. Lee	352,547	Nov. 16	1141	308	37	687
Animals. Ear-mark for	A. W. Burrows	350,112	Oct. 5	22	6	37	7
Animals. Ear-tag for marking	W C. Weedon	347,850	Aug. 24	1948	517	36	850
Ankle-supporter	G. D. Pugsley	346,606	Aug. 3	198	53	36	499
Annealing metals	J. A. Tatro	353,094	Nov. 23	1906	512	37	839
Annunciator	C. H. Dowden	351,099	Oct. 19	1431	375	37	274
Annunciator	F. E. Fisher	336,001	Feb. 9	1287	341	34	678
Annunciator	C. A. Tucker	350,449	Oct. 5	477	134	37	92
Annunciator and alarm-signal	J. W. Frost	354,856	Dec. 21	1745	462 / 463	37	1340
Annunciator and fire-alarm. Electric	A. T. Hess	341,909	May 18	1296	346 / 347	35	765
Annunciator and fire-alarm. Hotel	A. T. Hess. (Reissue)	10,711	Apr. 13	1389	349	35	254
Annunciator and spring-jack. Combined	T. B. Doolittle	339,627	Apr. 13	788	193	35	145
Annunciator. Electric	J. Geary	349,579	Sept. 21	1428	369	36	1328
Annunciator. Electric	J. Geary	349,580	Sept. 21	1430	360	36	1328
Annunciator. Electrical	G. E Painter	348,045	Aug. 24	2224	595	36	900
Annunciator. Electrical	G. E. Painter	354,209	Dec. 14	828	219	37	1165
Annunciator. Electrical	D. Rousseau	346,609	Aug. 3	202	55	36	500
Ant-trap	R. H. Barnes and G. C. Salles	352,289	Nov. 9	823	220	37	617
Anti-friction roller and wheel	G. W. Warner	348,869	Sept. 7	353	96	36	1113
Anti-insect fabric	J. P. Regan	339,810	Apr. 13	1033	.....	35	189
Anvil and clamp. Horseshoe	J. A. Richards	354,236	Dec. 14	863	228	37	1171
Anvil. Farrier's	C. H. Perkins	352,261	Nov. 9	783	210	37	610
Anvil for steam-hammers	J. T. Trees	352,897	Nov. 16	1614	434	37	776
Anvil, vise, and drill. Combined	J. Weathers	334,626	Jan. 19	1605	427 / 428	34	310
Apple-slicer	G. W. Humphrey and L. O. Bush	344,379	June 29	2297	592	35	1453
Apron-supporting band	A. M. Morrison	353,575	Nov. 30	2598	693	37	977
Arc light	W. E. Freeman	344,802	June 29	2864	741	35	1559
Arc-light regulator	P. O. Keilholtz	348,977	Sept. 14	601	158 / 159	36	1163
Arch. Fire-proof floor	C. C. Gilman	345,379	July 13	803	202	36	150
Arches. Forming artificial stone or concrete	P. H. Jackson	339,296	Apr. 6	261	66	35	49
Arm-rest	E. A. Bennett	349,974	Sept. 28	1972	511	36	1439
Arm-support	C. M. Hunt	346,549	Aug. 3	126	34	36	484
Armatures. Machine for winding	L. B. Jones	350,828	Oct. 12	1033	276	37	196
Armor and constructing the same. Compound steel	J. A. Tobin	351,297	Oct. 19	1697	445	37	323
Armpit-shield	H. C. Frank	348,300	Aug. 31	2721	731	36	1001
Armpit-shield	I. B. Kleinert	351,269	Oct. 19	1659	435	37	316
Artery-ligator	J. Trullinger	354,029	Dec. 7	551	149	37	1107
Artificial mother	P. Beuerlein	335,422	Feb. 2	469	121	34	525
Artificial mother	J. W. Cooke	333,602	Jan. 5	140	38	34	28
Asbestus sheet	R. H. Martin	354,158	Dec. 14	751	202	37	1150
Asbestus. Vitrified	E. A. Sperry	343,651	June 15	1284	.....	35	1253
Ash-pan	S. J. Byers	350,866	Oct. 12	1087	290	37	205
Ash-pan	J. H. McKeown	336,934	Mar. 2	69	19	34	939
Ash-pan. Self closing	E. A. Jackson	347,351	Aug. 17	1224	326	36	706
Ash-pit frame and door	W. Y. Horne and J. Danz, 2d	353,221	Nov. 23	2065	578	37	874
Asphalt-mixing machine	F. Schillinger	336,164	Feb. 16	1543	407	34	727
Asphaltic concrete for paving purposes. Apparatus for preparing	R. H. Greene	348,492	Aug. 31	2867	771	36	1027
Asphaltic concrete for paving purposes. Device for manufacturing	F. V. Greene	348,493	Aug. 31	2868	771 / 772	36	1028
Aspirator, &c. Surgical	A. E. A. Ruault	350,895	Oct. 12	1123	299	37	212
Astrakhan warp-threads. Machine for preparing	T. Harrison	353,938	Dec. 7	413	111 / 112	37	1082
Atmospheric engine	A. R. Weisz	343,875	June 15	1588	404	35	1309
Atmospheric engine	C. W. Weiss	351,081	Oct. 19	1405	369	37	269
Atmospheric pressure. Apparatus for conveying parcels or grain by	C. E. Buell	338,138	Mar. 16	1700	442 / 443	34	1246
Atomizer	C. H. Fisher	350,822	Oct. 12	1024	274	37	194
Atomizer	F. A. Reichardt	345,659	July 13	1241	321	36	229
Atomizer	A. M. Shurtleff	338,367	Mar. 23	2013	529	34	1311
Atomizer	W. A. Turner	335,550	Feb. 2	643	168	34	555
Atomizer	A. B. Tutton	347,750	Aug. 17	1799	480	36	813
Attrition-mill	T. L. Sturtevant	346,513	Aug. 3	82	22	36	476
Auger	S. Burd	350,657	Oct. 12	793	215	37	151
Auger	B. Forstner	336,709	Feb. 23	2319	607	34	874
Auger. Earth	H. and L. Iwan	342,516	May 25	2168	574	35	930
Auger. Earth	J. Jungbauer and G. J. Seielstad	351,703	Oct. 26	2317	602	37	444
Auger. Earth	C. A. F. Peters	352,001	Nov. 2	397	108	37	532
Auger. Earth	J. S. Stephen	354,265	Dec. 14	916	242	37	1179
Auger. Expansible	P. McCauley	338,997	Mar. 30	2906	770	34	1475
Auger for cutting square holes	W. Patterson	333,662	Jan. 5	214	59	34	42
Auger-handle	W. H. F. Raifsnyder	350,841	Oct. 12	1054	282	37	199

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Auger. Post-hole	T. Devitt and M. L. Sise	352,305	Nov. 9	845	228	37	621
Auger. Post-hole	G. W. Smith	338,648	Mar. 23	2394	630	34	1377
Aurin. Manufacture of derivatives of	C. Lowe	333,649	Jan. 5	199	.....	34	39
Automatic brake	J. T. Honeycutt	334,384	Jan. 12	1258	340	34	241
Automatic brake	G. W. Sanborn	339,698	Apr. 13	891	219	35	163
Automatic danger-signal	E. E. Phillips	352,263	Nov. 9	787	211	37	610
Automatic gate	J. Clark	337,556	Mar. 9	930	238	34	1100
Automatic gate	T. E. Wilson	339,249	Apr. 6	197	50	35	37
Automatic sprinkler	W. T. Montgomery	348,531	Aug. 31	2928	787	36	1038
Automatic sprinkler	G. W. Kittell and W. Jackson	337,836	Mar. 16	1283	332	34	1169
Automatic sprinkler	L. B. Stone	349,764	Sept. 28	1693	437	36	1384
Automatic switch	B. F. Purviance and C. Hills	342,760	May 25	2512	671	35	996
Awning	C. Bernhardt	342,568	May 25	2229	592	35	943
Awning	A. Ferrel	352,121	Nov. 9	579	155	37	574
Awning	S. Lloyd	348,024	Aug. 24	2198	586, 587	36	895
Awning	E. A. H. and C. R. G. Rabiger	338,875	Mar. 30	2731	718, 719	34	1444
Awning	W. J. Stoneman	333,569	Jan. 5	93	27	34	20
Awning and blind. Combined	W. H. Jolliffe	336,009	Feb. 9	1299	345	34	680
Awning-frame	B. Toulouse and J. Delorieux	350,902	Oct. 12	1136	302	37	215
Awning. Hop-box	J. Dillenbeck and J. W. Neahr	335,115	Feb. 2	23	7	34	444
Awning. Metallic	E. O. Pohl	349,810	Sept. 28	1760	455	36	1397
Awning. Removable and adjustable	H. W. Smith	345,183	July 6	528	135	36	96
Ax	J. F. Everson	352,973	Nov. 23	1723	462	37	804
Ax	N. Goodier	353,447	Nov. 30	2414	644	37	943
Ax-blank	H. Hammond	334,948	Jan. 26	2022	539	34	396
Ax-polls. Dies for making	H. M. Loomer	348,921	Sept. 7	521	138	36	1143
Axes and similar tools. Manufacture of	J. W. Bowers	352,803	Nov. 16	1493	403	37	752
Axes. Die for making	A. Bistle and A. Siegel	351,492	Oct. 26	2016	524	37	386
Axes. Making	C. W. Hubbard	338,270	Mar. 23	1872	492	34	1287
Axle	C. H. Rich	342,136	May 18	1602	428	35	822
Axle and axle-nut. Vehicle	G. C. Van Keuren	335,858	Feb. 9	1087	287	34	643
Axle and box for wheels	L. Steinberger	350,950	Oct. 19	1196	318	37	232
Axle and hub. Vehicle	J. N. Harris	351,566	Nov. 2	53	14	37	468
Axle-arms. Making	C. H. Smith	352,492	Nov. 9	1072	288	37	667
Axle-bearings. Composition of matter for the manufacture of	G. F. Godley	354,126	Dec. 14	701	.....	37	1142
Axle-bearings. Shell for	A. E. Francis	347,931	Aug. 24	2069	549	36	871
Axle-box	S. H. Barrett	350,100	Oct. 5	7	2, 3	37	4
Axle-box	T. G. Mandt	353,568	Nov. 30	2591	692	37	976
Axle-box	L. S. Van Schaumburg	348,432	Aug. 31	2780	747	36	1012
Axle-box	H. R. Underhill	343,350	June 8	861	217	35	1170
Axle-box	A. S. Vogt	352,592	Nov. 16	1204	327	37	699
Axle-box brass. Car-	D. Reynolds and J. S. Murray	340,361	Apr. 20	1822	467	35	340
Axle box. Car-	H. K. Austin	336,685	Feb. 23	2295	600	34	869
Axle box. Car-	K. S. Austin	336,831	Feb. 23	2479	652	34	903
Axle box. Car-	G. Condery, T. Perry, and J. B. Hyslop	339,269	Apr. 6	221	55	35	41
Axle box. Car-	A. O. Dayton	341,096	May 4	163	49	35	535
Axle box. Car-	C. Decker	347,565	Mar. 9	940	241	34	1102
Axle box. Car-	R. Faas	352,612	Nov. 16	1231	333	37	703
Axle box. Car-	J. W. Fowler	335,691	Feb. 9	845	224	34	568
Axle box. Car-	T. A. Griffin	337,949	Mar. 16	1445	374	34	1199
Axle box. Car-	A. C. Hébert	347,599	Aug. 17	1576	418, 419	36	772
Axle box. Car-	R. McDowell	352,979	Nov. 23	1733	464	37	806
Axle box. Car-	J. M. McGrath	334,540	Jan. 19	1488	398	34	288
Axle box. Car-	J. Petithomme	344,401	June 29	2324	599	35	1458
Axle box. Car-	L. Pängst	354,219	Dec. 14	841	223	37	1167
Axle box. Car-	H. Still	349,762	Sept. 28	1691	436	36	1384
Axle box. Car-	H. Still	353,647	Nov. 30	2723	727	37	998
Axle box. Car-	S. R. Stinard	354,448	Dec. 14	1154	309	37	1224
Axle box. Car-	C. G. Susemihl	348,933	Sept. 7	578	142	36	146
Axle box. Car-	W. Sutton	334,205	Jan. 12	1013	270	34	196
Axle box. Car-	J. Timms	345,458	July 13	920	241	36	171
Axle box. Car-	J. Timms	350,852	Oct. 12	1067	285	37	201
Axle box. Car-	J. W. Tucker	333,981	Jan. 5	663	181	34	124
Axle box. Car-	H. A. Wendell	352,171	Nov. 9	671	178, 179, 180	37	589
Axle-box cover. Car-	F. Hyde	334,705	Jan. 19	1713	457	34	331
Axle-boxes. Back-collar for	E. Partridge	350,387	Oct. 5	376	100	37	76
Axle-boxes. Dust-guard for	J. Timms	338,804	Mar. 30	2631	693	34	1426
Axle-boxes. Dust-guard for car-	R. S. Stimson	331,944	Nov. 2	314	87	37	515
Axle-boxes. Dust-shield for car-	S. A. Flower and P. Ross	342,742	May 25	2490	661	35	991
Axle-boxes. Machine for working	W. C. Dalzell	351,692	Oct. 26	2304	598	37	441
Axle. Car-	J. Bourne, Jr	347,563	Aug. 17	1524	405	36	762
Axle. Car-	D. C. James	352,411	Nov. 9	976	262	37	648
Axle. Car-	J. M. Kelly	347,353	Aug. 17	1326	327	36	707
Axle. Car-	E. E. Krengel	352,761	Nov. 16	1434	386	37	742
Axle. Car-	E. Peckham	352,657	Nov. 16	1300	350	37	715
Axle. Car-	F. B. Reed	346,068	July 20	1811	467, 468	36	338
Axle. Car-	P. Wilhelm and M. N. Demmer	335,003	Jan. 26	2093	558	34	408
Axle. Car-	H. Wollertz	346,009	July 20	1734	447	36	324
Axle. Car-wheel	E. R. Jones	343,905	June 15	1626	415	35	1318
Axle-coupling	E. Williams	351,820	Dec. 21	1706	451	37	1332
Axle-cutter	R. D. McGee	343,058	June 1	402	102	35	1079
Axle. Divided car-	G. W. Bedbury	335,737	Feb. 9	919	242	34	612
Axle-flaps. Die for forging	W. E. Miller	346,306	July 27	2140	551	36	410
Axle for vehicles	S. Toomey	346,001	July 20	1723	444	36	322
Axle-gage	H. McQuarry	337,606	Mar. 9	986	253	34	1110
Axle journal-bearing. Car-	G. W. Fulmer	342,436	May 25	2046	539	35	909

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Axle journal-bearing. Railway	J. Kritch	352,876	Nov. 16	1588	428	37	771
Axle-lathe. Convertible	N. Harris	343,955	June 15	1692	433 434	35	1330
Axle-lubricator	C. Crandall	345,213	July 6	567	145	36	103
Axle-lubricator	H. G. Farr	337,052	Mar. 16	1583	412	34	1223
Axle-lubricator	B. M. Freligh	338,661	Mar. 23	2408	633	34	1380
Axle-lubricator	J. N. Harris	351,765	Nov. 2	50	13, 14	37	468
Axle-lubricator	A. J. Hawkins and S. H. Allen	339,768	Apr. 13	985	243	35	180
Axle-lubricator	A. D. Howe	341,009	May 4	52	13	35	515
Axle-lubricator	W. C. Lusson	353,239	Nov. 23	2094	561	37	876
Axle-lubricator	J. C. Nichol	338,287	Mar. 23	1895	498	34	1291
Axle-lubricator	J. Simon and C. Contant	348,787	Sept. 7	337	90	36	1110
Axle lubricator. Car-	F. G. Brownell	343,004	June 1	311	80	35	1063
Axle lubricator. Car-	R. Faas	338,051	Mar. 16	1581	412	34	1223
Axle lubricator. Car-	H. G. Farr	348,728	Sept. 7	264	70	36	1097
Axle lubricator. Car-	H. G. Farr	348,729	Sept. 7	265	71	36	1097
Axle lubricator. Car-	I. Fréchette	345,228	July 6	587	149 150	36	106
Axle lubricator. Car-	I. Fréchette and C. L. Girard. (Reissue.)	10,767	Sept. 28	2140	554	36	1471
Axle lubricator. Car-	W. H. Herbertson	337,327	Mar. 2	601	158	34	1037
Axle lubricator. Car-	W. Megathey	337,779	Mar. 9	1200	311	34	1147
Axle lubricator. Car-	L. F. Morison and F. X. Bertrand	341,386	May 4	585	161	35	611
Axle lubricator. Car-	M. R. Thurber and R. B. Brockway	335,163	Feb. 2	91	24	34	456
Axle lubricator. Carriage-	J. Sladdin	350,780	Oct. 12	953	256	37	181
Axle-nut	G. H. Eaton	346,469	Aug. 3	28	7	36	466
Axle-nut	M. S. Freeman	336,710	Feb. 23	2320	608	34	874
Axle nut. Wagon-	F. O. Slanker	340,736	Apr. 27	2348	618	35	439
Axle. Roller and extension	A. L. Adams	338,459	Mar. 23	2140	559 560	34	1334
Axle. Self-oiling	J. W. Marshall	333,532	Jan. 5	49	14	34	12
Axle-skeins. Making	R. Gracey. (Reissue)	10,776	Nov. 2	549	145	37	561
Axle. Vehicle-	H. M. Clark	334,566	Jan. 19	1523	407	34	295
Axle. Vehicle-	J. Coleman	351,425	Oct. 26	1911	497	37	366
Axle. Vehicle-	R. McLaughlin	337,605	Mar. 9	985	253	34	1110
Axle. Vehicle-	E. Peckham	352,658	Nov. 16	1300	351	37	716
Axle. Vehicle-	W. I. Stillman	351,295	Oct. 19	1696	444	37	323
Axle. Wagon-	N. L. Holmes	343,272	June 8	725	181	35	1147
Axle. Wagon-	J. Lucksinger	343,772	June 15	1466	367	35	1287
Axle washer. Carriage-	D. A. Johnson	349,593	Sept. 21	1443	372	36	1331
Axles. Device for straightening carriage-	J. A. George	347,588	Aug. 17	1556	414	36	769
Axles. Dust-guard for car-	W. McKenzie	339,675	Apr. 13	856	210	35	157
Axles. Machine for turning	J. N. Spencer	342,048	May 18	1475	395	35	798
Axles. Metallic cup for carriage-	E. Jacquelin	339,784	Apr. 13	1004	248	35	183
Axles. Roller-bearing for	C. S. Simpson	343,257	June 8	705	175	35	1143
Baby-jumper, &c. Combined	O. S. M. Cone	347,092	Aug. 10	856	227	36	630
Baby-jumper, swing, and reclining-chair. Combined.	A. L. Abbey and F. J. French	342,855	June 1	108	27	35	1026
Baby-walker	S. E. Gleason	354,895	Dec. 28	1815	479	37	1365
Baby-walker	A. Halstenbach	343,026	June 1	346	90	35	1070
Baby-walker	G. Pudder	341,167	May 4	273	78	35	554
Back-band hook	J. B. Moore	334,884	Jan. 26	1940	516	34	381
Back-band hook	J. B. Moore	338,763	Mar. 30	2578	680	34	1416
Back-band hook	J. B. Moore	348,571	Sept. 7	50	14	36	1057
Back-band hook	S. Ward	337,215	Mar. 2	442	115	34	1008
Badge	E. L. Torsch and J. R. Lee	337,717	Mar. 9	1126	290	34	1134
Bag: *See* Feed-bag. Paper bag. Hand-bag. Shipping-bag. Mail-bag. Traveling-bag.							
Bag and satchel frame	W. Roemer	340,459	Apr. 20	1940	498	35	361
Bag and twine holder	L. Q. Edmiston	335,063	Jan. 26	2186	581	34	424
Bag and twine holder. Combined	J. Allen	353,435	Nov. 30	2395	639	37	939
Bag and twine holder. Combined	J. Cushing	344,771	June 29	2813	728 729	35	1548
Bag and twine holder. Combined	J. Duls	334,358	Jan. 12	1236	332	34	236
Bag-catch	G. Crouch	354,598	Dec. 21	1388	367	37	1373
Bag catcher. Mail-	W. A. Mack and J. T. Ward	352,479	Nov. 9	1057	284	37	664
Bag-cord case and lock. Combined mail-	O. B. Young	352,502	Nov. 9	1085	292	37	669
Bag-fastener	J. L. McDonald	343,918	June 15	1642	421	35	1321
Bag-fastener	W. K. Smith	351,539	Oct. 26	2083	540	37	400
Bag-fastener and tag-holder	A. Leyden	353,436	Nov. 30	2496	647	37	945
Bag-frame clasp	F. F. Braillard	344,437	June 29	2373	611	35	1467
Bag-frame fastening	A. Goertz	334,654	Jan. 19	1645	439	34	318
Bag-holder	W. J. Broker	344,078	June 22	1878	482	35	1370
Bag-holder	C. C. Hollingsworth and F. Broyles	344,738	June 29	2774	718	35	1541
Bag-holder	W. S. Kendall	334,589	Jan. 19	1550	414	34	301
Bag-holder	W. M. Kruse	339,663	Apr. 13	837	206	35	154
Bag-holder	D. La Bar and H. W. Patton	343,276	June 8	733	182	35	1148
Bag-holder	J. Miller	348,986	Sept. 14	612	161	36	1165
Bag-holder	F. M. Nicholson	352,835	Nov. 16	1532	412	37	759
Bag-holder	T. H. Smith	347,393	Aug. 17	1283	341	36	717
Bag-holder	I. Steenrod	334,482	Jan. 19	1410	380	34	275
Bag-holder	H. K. Westland	347,077	Aug. 10	838	223	36	627
Bag holder. Fruit-	I. H. Kizer	335,076	Jan. 26	2203	585	34	427
Bag-lock	B. Vom Eigen	336,536	Feb. 16	2070	544	34	822
Bag or portmanteau	O. Seefels	343,073	June 1	422	108	35	1083
Bag or purse catch	B. Vom Eigen	344,147	June 22	1970	504	35	1386
Bag or satchel catch	L. B. Prahar and C. S. Shepard	336,017	Feb. 9	1307	347	34	681
Bag or satchel fastening	L. B. Prahar	335,307	Feb. 2	311	82	34	496
Bag or satchel frame	W. Römer	350,641	Oct. 12	772	211	37	147
Bag, satchel, &c	R. Flocke	330,052	Mar. 30	2989	791	34	1489
Bag, satchel, &c	J. Wolf	348,085	Aug. 24	2290	614	36	912
Bag-tie	A. H. Brown	349,300	Sept. 21	1034	264	36	1252
Bag-turning machine	S. T. Lockwood	350,204	Oct. 5	152	45, 46	37	32

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bag-turning machine	S. T. Lockwood	350,461	Oct. 5	495	139	37	95
Bags and other articles. Fastening for hand-	L. Sanders	335,311	Feb. 2	317	83	34	498
Bags, &c. Fastening for	G. W. McGill	345,523	July 13	1009	256	36	187
Bags, &c. Holder for	W. N. Barnes and C. L. Edmonds	341,545	May 11	802	214	35	662
Bagasse-burner	G. W. Fisher	340,302	Apr. 20	1733	441	35	322
Bagasse feeder	C. W. Harris	346,099	July 27	1849	477	36	355
Bagasse furnace	W. Barry and J. R. Calder	343,978	June 22	1726	443	35	1343
Bagasse furnace	R. Marsá	339,311	Apr. 6	280	70	35	53
Bagasse-furnace	L. P. Rider	349,236	Sept. 14	962	245, 246	36	1228
Bagasse-furnace	W. Sutcliffe	334,204	Jan. 12	1011	269, 270	34	196
Bail fastening or clutch	H. W. Eames	338,342	Mar. 23	1976	520	34	1305
Bail. Kettle	J. E. Gaitley	338,506	Mar. 23	2206	579	34	1346
Bait-box	E. W. Deland	353,022	Nov. 23	1795	482	37	818
Bait. Spoon	J. B. McFlarg	354,721	Dec. 21	1567	415	37	1306
Bake-pan	G. L. Hinderer	334,662	Jan. 19	1656	442	34	320
Baker's pan or tray	H. S. Dosh	340,492	Apr. 20	1994	512	35	371
Baking and roasting pan	J. B. Leach	352,136	Nov. 9	609	161	37	579
Baking apparatus	J. Nash	339,228	Apr. 6	156	42	35	30
Baking furnace and oven	R. B. Van Derveer	349,771	Sept. 28	1704	439	36	1386
Baking-machine	J. O. Meyer and W. Strickler	349,115	Sept. 14	801	203	36	1197
Baking-machine	C. Witzig	336,681	Feb. 23	2290	598	34	867
Baking or firing compounds of plastic material, &c. Process of and apparatus for	J. L. Stewart and J. L. Hastings	350,567	Oct. 12	659	180	37	126
Baking-pan	J. F. Doebler	346,808	Aug. 3	436	119	36	545
Baking-pan	A. B. Sparrow	335,251	Feb. 2	233	62	34	482
Baking-powder mixer	C. Anderson	345,204	July 6	555	142	36	101
Baking sugar-wafer cakes, &c. Machine for	G. S. Baker	353,837	Dec. 7	260	70	37	1054
Baking wafers. Machine for	J. O. Meyer and W. Strickler	334,451	Jan. 19	1356	367	34	266
Balance. Analytical	E. Becker	336,546	Feb. 23	2087	548	34	832
Balance. Compound spring	E. L. Chamberlayne	343,946	June 15	1672	429	35	1327
Balance. Molecular pivot	L. M. Hosea and A. Springer	352,753	Nov. 16	1422	384	37	740
Balance. Molecular pivot	A. Springer	340,010	Apr. 13	1306	326, 327	35	240
Balance. Molecular pivot	A. Springer	340,014	Apr. 13	1309	327	35	240
Balance. Molecular pivot	A. Springer	340,012	Apr. 13	1310	327	35	240
Balance. Spring	H. Haerter	345,049	July 6	353	89	36	64
Balance. Spring	W. R. Watt	338,804	Mar. 30	2765	728	34	1449
Balance. Torsion pivot	A. Springer	340,013	Apr. 13	1312	328	35	240
Balance. Torsional	A. Springer and F. A. Roeder	339,947	Apr. 13	1216	302	35	223
Balance. Torsional pivot	F. A. Roeder	340,006	Apr. 13	1301	326	35	239
Balance. Torsional pivot	F. A. Roeder	340,007	Apr. 13	1302	326	35	239
Balance. Torsional pivot	F. A. Roeder	340,008	Apr. 13	1303	326	35	239
Balance. Torsional pivot	A. Springer and F. A. Roeder	339,946	Apr. 13	1214	302	35	223
Balances. Mechanism for timing	H. J. Eisen	339,051	Mar. 30	2987	790	34	1489
Balcony	A. S. Cuff	343,226	June 8	655	163	35	1134
Balcony. Adjustable	G. D. Husemann	353,634	Nov. 30	3694	720	37	993
Bale and box hook	P. J. Stockinger	338,885	Mar. 30	3749	733	34	1447
Bale-tie	L. Cook	349,569	Sept. 21	1415	366	36	1326
Bale-tie	W. M. Jinkins	335,932	Feb. 9	1196	318	34	662
Bale-tie. Adjustable	F. B. Griswold	345,841	July 20	1500	389	36	281
Bale-tie. Cotton	J. H. Hooks	346,917	Aug. 10	603	162	36	584
Bale-tie. Wire	D. F. Boughton	336,084	Feb. 16	1424	376	34	708
Bale-ties. Machine for making	D. I. Eckerson	348,833	Sept. 7	390	106	36	1120
Bale-ties. Machine for making wire	D. I. Eckerson	337,939	Mar. 16	1423	368, 369, 370	34	1195
Bale-ties. Machine for making wire	W. A. Laidlaw	351,517	Oct. 26	2050	532	37	394
Bales. Jack for replacing ties upon	J. B. Johnson	344,659	June 29	2671	693	35	1523
Baling-machine	B. J. Leslie	344,486	June 29	2438	627	35	1478
Baling-press	W. S. Bryan	337,237	Mar. 2	473	124	34	1013
Baling-press	H. C. Capel	338,712	Mar. 30	2497	660, 661	34	1402
Baling-press	P. K. Dederick	333,999	Jan. 12	688	188	34	137
Baling-press	P. K. Dederick	334,000	Jan. 12	689	189	34	137
Baling-press	P. K. Dederick	334,001	Jan. 12	691	189, 190	34	138
Baling-press	P. K. Dederick	334,002	Jan. 12	693	190	34	138
Baling-press	P. K. Dederick	334,003	Jan. 12	695	191	34	138
Baling-press	P. K. Dederick	334,004	Jan. 12	696	191, 192	34	138
Baling-press	P. K. Dederick	334,005	Jan. 12	699	192	34	139
Baling-press	P. K. Dederick	337,935	Mar. 16	1416	367	34	1194
Baling-press	P. K. Dederick	338,936	Mar. 30	2814	742	34	1460
Baling-press	P. K. Dederick	341,559	May 11	818	218	35	664
Baling-press	P. K. Dederick	341,560	May 11	819	218, 219	35	665
Baling-press	P. K. Dederick	347,327	Aug. 17	1188	318	36	701
Baling-press	G. Ertel	336,305	Feb. 16	1766	462	34	766
Baling-press	G. Ertel	337,567	Mar. 9	943	241	34	1102
Baling-press	G. Ertel	345,889	July 20	1568	404	36	394
Baling-press	G. Ertel	349,934	Sept. 28	1914	496	36	1428
Baling-press	J. L. Gilbert	352,686	Nov. 16	1340	361, 362	37	723
Baling-press	J. A. Hampton and E. C. Sooy	345,502	July 13	981	248, 249	36	182
Baling-press	J. La Dow	335,290	Feb. 2	287	76, 77	34	492
Baling-press	T. C. Naramore	333,660	Jan. 5	212	58	34	41
Baling-press	H. Purrier	354,517	Dec. 14	1258	336, 337	37	1242
Baling-press	G. W. Robburts	338,785	Mar. 30	2606	687	34	1421
Baling-press	A. S. Robinson	348,865	Sept. 7	437	117	36	1128
Baling-press	J. B. Romans	346,827	Aug. 3	458	126	36	549

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Pages.
Baling-press	J. B. Romans	352,572	Nov. 16	1176	317, 318	37	693
Baling-press	W. D. Slauson	333,895	Jan. 5	539	146	34	101
Baling-press	S. J. Webb	353,101	Nov. 23	1919	514	37	841
Baling-press	S. J. Webb	353,102	Nov. 23	1920	515	37	842
Baling short-cut hay or straw	E. M. Davenport	340,769	Apr. 27	2388	630	35	446
Ball:							
See Return-ball. Time-ball.							
Ball-joint	J. T. Robb	344,202	June 22	2050	525	35	1400
Ball-joint coupler	J. P. and C. L. Miller	344,918	July 6	171	44	36	32
Balloon	O. U. Hartung	354,413	Dec. 14	1105	297	37	1216
Ballot-box	J. W. Bodge	346,710	Aug. 3	329	90	36	525
Ballot-box. Registering and canceling	R. G. Wood	340,069	Apr. 13	1386	348	35	253
Ballot-boxes. Registering and canceling mechanism for	W. T. Butler	354,180	Dec. 14	788	209	37	1157
Baluster and spindle. Ornamental	S. Strahan	349,669	Sept. 21	1535	396	36	1350
Balusters. Machine for dovetailing	B. F. T. Bell	350,575	Oct. 12	670	183	37	128
Balusters, posts, &c. Manufacturing ornamental	F. Mankey	340,671	Apr. 27	2251	592, 593	35	422
Band attachment. Waist-	L. Freidenrich	352,457	Nov. 9	1033	278	37	659
Band. Box-	C. S. Hall	351,048	Oct. 19	1367	359	37	262
Band. Covered elastic endless	J. Ashworth	345,660	July 20	1245	323	36	237
Band-cutter	J. Henry	335,813	Feb. 9	1027	271	34	632
Band-cutter and feeder	W. A. Brady	352,112	Nov. 9	566	150	37	572
Band-cutter and feeder	J. A. Coulter	343,985	June 22	1737	447	35	1345
Band-cutter and feeder	J. H. Sheldon	339,815	Apr. 13	1039	258	35	190
Band-cutter and feeder	J. R. Stone	339,119	Mar. 30	3084	816	34	1505
Band-cutter's platform	I. S. Carolus	341,551	May 11	810	216	35	663
Band for packages	I. E. Palmer	340,238	Apr. 20	1637	415	35	305
Band for packages	I. E. Palmer	350,149	Oct. 5	75	21, 22	37	17
Band-stretcher	J. A. Lawrence	336,571	Feb. 23	2125	557	34	838
Band-tightener	J. Reid	337,081	Mar. 2	262	70	34	975
Band-tightener	W. H. Whittaker	338,811	Mar. 30	2639	696	34	1428
Bandage. Supporting-	E. H. Hart	349,793	Sept. 28	1734	447	36	1392
Banjo	B. E. Boyden	338,335	Mar. 23	1963	516	34	1303
Banjo	O. R. Chase	343,564	June 15	1167	294	35	1234
Banjo	C. E. Dobson	338,142	Mar. 16	1705	444	34	1247
Banjo	H. Hosens	342,098	May 18	1559	416	35	814
Banjo	F. R. Mustill	350,693	Oct. 12	841	226	37	160
Banjo-frame	M. Dobson	344,569	June 29	2554	660	35	1500
Banjo tail-piece	R. H. Benary	334,734	Jan. 26	1756	468	34	346
Banjo tail-piece	F. H. Hodges	349,308	Sept. 21	1042	266	36	1253
Banker's note-case	D. Heaton	339,173	Apr. 6	75	22, 23	35	16
Banner or other like rod	R. H. Sawyer	353,464	Nov. 30	2437	650	37	947
Bannerette	G. R. Osborn	338,356	Mar. 23	1995	525, 526	34	1308
Bar:							
See Boring-bar. Harvester sickle-bar. Car draw-bar. Metal bar. Car-strengthening bar. Pinch-bar. Culm-bar. Planing-machine presser-bar. Cultivator-bar. Presser-bar. Draft-bar. Railway splice-bar. Draw-bar. Saddle-bar. Eye-bar. Splice-bar. Folding clothes-bar. Tamping-bar. Grate-bar. Toe-calk bar. Harvester cutter-bar. Window-shade bar.							
Bar-cutter	A. Gargrave	348,731	Sept. 7	268	72	36	1097
Bars, &c. Converting tires into	C. B. Beach	347,459	Aug. 17	1381	367	36	735
Barber and dental chair	G. W. Archer	342,724	May 25	2464	652	35	986
Barber's chair	F. Heine	352,242	Nov. 9	759	203	37	605
Barber's chair	F. M. Shepard	349,063	Sept. 14	724	185	36	1183
Barber's pole	R. F. Walter	334,912	Jan. 26	1976	526	34	388
Barber's pole	M. H. Wilson	354,961	Dec. 28	1905	502	37	1382
Barber's register	K. L. Comes	341,556	May 11	815	217	35	664
Barium. Manufacture of anhydrous oxide of	L. Q. and A. Brin	338,628	Mar. 23	2365	622	34	1373
Bark-cutter	B. Holbrook	351,178	Oct. 19	1544	404	37	296
Bark-cutter	R. C. Kirby	355,179	Dec. 28	2215	585	37	1441
Bark-cutting machine	J. C. Hagerty	334,859	Jan. 26	1912	509	34	375
Bark-mill	B. Ott	340,922	Apr. 27	2567	682	35	482
Bark-shaving machine	B. Ott	335,532	Feb. 2	616	161	34	550
Bark-shaving machine	B. Ott	335,533	Feb. 2	618	162	34	550
Barley-machine	S. Spitzer	333,561	Jan. 5	82	24	34	18
Barley, wheat, &c. Machine for pearling	C. O. Webb	347,540	Aug. 17	1493	395	36	756
Barns. Gable or loft door for	J. H. Morgan, Jr	342,374	May 25	1959	518	35	894
Barometer for indicating fire-damp	R. v. Walcher-Uysdal	341,822	May 11	1172	313, 314	35	735
Barometers, &c. Recording apparatus for	J. Richard	334,613	Jan. 19	1584	422	34	307
Barometrical evaporometer	A. Bonino	351,091	Oct. 19	1422	373	37	272
Barrel	J. R. Allgire	347,860	Aug. 24	1960	520	36	852
Barrel	J. Wessel	351,551	Oct. 26	2097	544	37	403
Barrel-bodies. Manufacturing sheet-metal	E. Norton	354,573	Dec. 21	1345	357	37	1265
Barrel-body from shrinking. Mechanism for preventing a molded	G. W. Laraway	339,064	Mar. 30	3006	795	34	1491
Barrel clamp and hook. Combined	E. E. Taylor	336,357	Feb. 16	1834	481	34	780
Barrel-cover	W. W. Hodsden	350,247	Oct. 5	205	59	37	43
Barrel-filler	J. McKenzie	334,268	Jan. 12	1114	298, 299	34	214
Barrel-head	J. R. Allgire	338,379	Mar. 23	2034	534	34	1314
Barrel-head	F. J. Oliver	337,984	Mar. 16	1493	387	34	1207
Barrel-head cutter	T. McMillen	352,766	Nov. 16	1440	388	37	743

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Barrel-head fastening	C. R. Johnson and L. P. D. Carr	337,685	Mar. 9	1080	279	34	1127
Barrel-heads, &c. Fastener for	J. W. Weston	333,704	Jan. 5	284	77	34	54
Barrel-heads. Machine for making	J. T. Carter	338,926	Mar. 30	2803	739	34	1457
Barrel-heater	J. L. Koster	336,239	Feb. 16	1674	435	34	749
Barrel-heater	G. McVicar and P. Glor, Jr	343,838	June 15	1537	389	35	1300
Barrel-holder	A. McQuiston	336,419	Feb. 16	1917	502	34	796
Barrel leveling and trussing machine	G. H. W. Simmon	336,760	Feb. 23	2386	625	34	886
Barrel-lowering device	J. W. Gillman	351,592	Oct. 26	2168	560 / 561	37	415
Barrel machine. Sheet-metal	E. Norton and J. G. Hodgson	354,568	Dec. 21	1336	354 / 355	37	1263
Barrel machine. Sheet-metal	E. Norton and J. G. Hodgson	354,569	Dec. 21	1338	355 / 356	37	1264
Barrel-making machine	G. W. Packer	347,370	Aug. 17	1248	332	36	711
Barrel-making machine	G. W. Packer	347,372	Aug. 17	1252	332	36	711
Barrel-making machine	J. J. Philbrick	334,607	Jan. 19	1575	420	34	305
Barrel-making machine	W. P. Tracy	348,481	Aug. 31	2853	768	36	1025
Barrel-register. Automatic electric	G. W. Hey	347,038	Aug. 10	767	204 / 205	36	615
Barrel-roller	P. B. Dittrick	345,034	July 6	338	85	36	62
Barrel. Sheet-metal	E. Norton	354,572	Dec. 21	1344	357	37	1265
Barrel-stand	I. G. Pollard	343,920	June 15	1643	421	35	1321
Barrel-swing	W. E. Kinert	350,370	Oct. 5	358	103	37	72
Barrel-tilting device	J. Potter and R. Gomez	345,395	July 13	830	208	36	155
Barrel-trimming machine	A. Kirchner	341,581	May 11	854	227	35	672
Barrel, tub, &c.	J. A. Tauner	353,386	Nov. 30	2318	620	37	924
Barrel. Tumbling	A. W. Getchell	349,936	Sept. 28	1920	497	36	1430
Barrel. Tumbling	J. Henderson, Jr	348,011	Aug. 24	2181	581	36	891
Barrel. Ventilated	J. C. Dozier, Jr	340,493	Apr. 20	1995	512	35	371
Barrel. Ventilated	I. A. Kerr	354,706	Dec. 21	1545	409	37	1302
Barrel. Wooden	W. M. Allyn	337,110	Mar. 2	303	80	34	982
Barrels. Apparatus for forming and drying	I. Hogeland	348,906	Sept. 7	499	132	36	1139
Barrels. Apparatus for heating and drying	J. M. Chambers	348,888	Sept. 7	474	125	36	1134
Barrels, &c. Construction of	M. G. Gillette	338,948	Mar. 30	2832	747	34	1463
Barrels. Device for raising	J. E. Mitchell	335,356	Feb. 2	407	104	34	514
Barrels. Follower for packing	O. T. Bellamy	336,630	Feb. 23	2303	602	34	870
Barrels. Machine for cutting head-linings for	L. Reed	350,697	Oct. 12	845	228	37	161
Barrels. Machine for making sheet-metal	E. Norton and J. G. Hodgson	354,570	Dec. 21	1340	356	37	1264
Barrels. Machine for manufacturing	J. W. Philp	337,701	Mar. 9	1104	284 / 285	34	1130
Barrels. Machine for the manufacture of veneer	J. R. Allgire	341,866	May 18	1238	331 / 332	35	755
Barrels. Making	M. E. Beasley	352,850	Nov. 16	1549	418	37	763
Barrels. Manufacturing veneer	J. R. Allgire	342,672	May 25	2378	629	35	970
Barrels. Means for attaching heads to	T. P. Walsh	355,040	Dec. 28	2014	530	37	1401
Bas-reliefs for ceilings, walls, &c. Manufacture of	E. Krispin	336,055	Feb. 9	1365	361	34	691
Base-board and wainscoting	G. F. Decker	346,899	Aug. 10	577	154	36	580
Basin. Catch	J. V. Clarke	345,115	July 6	438	113	36	80
Basin or similar fixture. Set	J. P. Putnam	344,498	June 29	2457	631	35	1481
Basin. Sanitary catch	H. C. Buddenberg	340,694	Apr. 27	2285	602	35	427
Basins. Dirt collector and remover for wash	T. Keech	335,363	Feb. 2	388	100	34	511
Basins, &c. Plug for stationary wash	J. W. Reid	342,538	May 25	2094	561	35	936
Basket	M. H. Disbrow	353,352	Nov. 30	2270	606	37	914
Basket	J. H. Gulick	337,763	Mar. 9	1177	306	34	1143
Basket	T. F. Lawson and W. K. Burton	354,713	Dec. 21	1555	412	37	1304
Basket	S. Toffler	333,793	Jan. 5	408	111	34	77
Basket. Convertible wire	A. S. Greenwood	353,131	Nov. 23	1959	524	37	849
Basket. Cotton	D. C. Barrow	344,540	June 29	2238	576	35	1442
Basket. Cotton	J. W. Walker	338,892	Mar. 30	2763	727	34	1449
Basket-cover	R. H. Frisbee	336,516	Feb. 16	2043	536	34	817
Basket-cover	J. H. Marvil	350,376	Oct. 5	365	105	37	74
Basket-cover	J. H. Marvil	350,377	Oct. 5	366	105	37	74
Basket cover. Fruit	N. A. Hadden	352,313	Nov. 9	854	230	37	623
Basket. Floating minnow	D. B. Weightman	354,958	Dec. 28	1903	502	37	1382
Basket. Folding sponge	D. A. Gabay	354,697	Dec. 21	1535	407	37	1300
Basket. Grape	A. Schmoker	341,060	May 4	120	36	35	527
Basket. Truck	J. Ridgway	342,137	May 18	1603	428	35	822
Baskets. Machine for making and driving staples in handles of	H. C. Ward	334,913	Jan. 26	1977	526 / 527	34	388
Basting-machine	W. Duchemin	339,536	Apr. 6	623	152	35	113
Bat for lawn-tennis	R. S. Moss	346,858	Aug. 3	507	139	36	559
Bat. Racquet	I. T. Townsend	344,422	June 29	2356	606	35	1464
Bat. Tennis	W. Hillman	346,751	Aug. 3	373	100 / 101	36	533
Bath: *See* Blotter-bath. Steam or vapor bath. Needle and spray bath. Vapor-bath.							
Bath apparatus	W. F. Lambert	347,430	Aug. 17	1326	354	36	725
Bath-house. Floating	W. T. Lorimer	342,023	May 18	1443	386	35	792
Bath or bathing apparatus	S. C. Neal	334,674	Jan 19	1668	446	34	322
Bath-pad	C. S. Rees	346,773	Aug. 3	397	110	36	538
Bath-rubber	J. B. Laughton	351,927	Nov. 2	288	80	37	510
Bath-tub	F. P. Day	336,797	Feb. 23	2433	640	34	895
Bath-tub fittings	J. Demarest	339,386	Apr. 6	385	95	35	72
Bath-tub. Sectional	M. S. French	351,103	Oct. 19	1436	376 / 377	37	275
Bath-tubs. Shower attachment for	W. Strong	341,183	May 4	295	84	35	559
Bath tubs. Soap-dish for	C. Palmer	345,918	July 20	1606	414	36	301
Bath waste and overflow	T. Butler	346,579	Aug. 3	164	44	36	491
Bathing apparatus	F. B. Brown	338,631	Mar. 16	1560	404	34	1219
Bathing apparatus	V. A. Harder	336,642	Feb. 23	2227	581	34	855
Bathing apparatus	J. W. James	350,489	Oct. 12	551	153	37	109
Bathing-machine	J. W. James	350,489	Oct. 12	549	152 / 153	37	108

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bathing-tub for horses. Water-proof-cloth	A. Purson	349,357	Sept. 21	1116	288	36	1267
Batteries. Protective coating for the electrodes of	L. A. W. Desruelles	350,297	Oct. 5	265	.....	37	54
Batteries. Utilization of the residual liquids from	L. A. W. Desruelles	350,296	Oct. 5	264	.....	37	54
Battery: *See* Carbon battery. Electric battery. Electric chain battery. Electro-medical battery. Galvanic battery. Secondary battery. Stamp-battery. Storage-battery. Voltaic battery.							
Battery and battery-plate	H. Woodward	347,754	Aug. 17	1807	482	36	814
Battery cell. Galvanic	L. Drescher	350,621	Oct. 12	741	202	37	143
Battery. Galvanic	J. W. Hoffman	352,324	Nov. 9	868	234	37	626
Battery. Galvanic	W. R. Patterson	352,486	Nov. 9	1064	286	37	665
Beading-tool	O. E. Hildebrand	352,056	Nov. 2	471	128	37	548
Beading-tool	C. M. Stevenson	333,690	Jan. 5	257	70	34	50
Beading-tool	J. A. Traut	335,856	Feb. 9	10e5	286	34	643
Beads. Machine for making metallic	B. Lyon and W. I. Macomber	340,515	Apr. 20	2029	520 / 521	35	377
Beams. Locking device for securing wood, &c., to iron	K. L. Gocht	338,059	Mar. 16	1589	414	34	1224
Beams. Machine for severing the flanges from I-	W. H. Graham	352,184	Nov. 9	687	183 / 184	37	582
Beams or rails. Splice for metal	J. F. Ward	335,165	Feb. 2	93	25	34	457
Bear-trap	O. Gravel	354,470	Dec. 14	1187	318	37	1231
Bearing	A. Stigler	337,884	Mar. 16	1344	349	34	1180
Bearing. Anti-friction	L. W. Boyer	346,716	Aug. 3	336	91, 92	36	526
Bearing. Anti-friction	G. D. Burton	338,657	Mar. 23	2402	632	34	1379
Bearing. Anti-friction	M. Gale	344,573	June 29	2558	662	35	1501
Bearing. Anti-friction	G. Haynes, Jr., and A. E. Schaaf	354,638	Dec. 21	1452	385	37	1284
Bearing. Anti-friction	W. Kratzer	335,527	Feb. 2	609	159	34	549
Bearing. Ball-	W. H. Wright	342,891	June 1	163	42	35	1035
Bearing for shafts	C. T. Porter	354,582	Dec. 21	1358	360	37	1267
Bearing for shafts and axles. Roller-	J. Gibbons. (Reissue)	10,787	Dec. 7	621	170	37	1120
Bearing for vehicles. Ball-	G. A. Parker	341,816	May 11	1165	311	35	734
Bearing for velocipedes	J. Knous	354,511	Dec. 14	1251	334	37	1241
Bearing. Roller-	J. K. Starley	352,841	Nov. 16	1539	415	37	761
Bearing. Step-	G. F. Eisenhardt	352,308	Nov. 9	848	229	37	626
Bearings. Composition of matter to cool and reduce friction in	J. H. Brown	343,943	June 15	1670	.....	35	1327
Bearings. Drip-cup and self-oiling attachment for	A. C. Pessano	335,840	Feb. 9	1064	281	34	639
Beating and mixing machine	F. V. Raymond	354,934	Dec. 28	1870	494	37	1375
Bed	Y. R. Hartigan	350,478	Oct. 5	492	138	37	94
Bed and fire-escape. Combined spring	W. G. Wilson and G. Zimmermann	338,127	Mar. 16	1685	438	34	1243
Bed-bottom	C. L. Ames	333,909	Jan. 5	427	116	34	80
Bed-bottom	C. L. Ames	336,616	Feb. 23	2191	572	34	848
Bed-bottom	G. E. Bedell	334,556	Jan. 19	1509	404	34	292
Bed-bottom	C. Kilburn	339,789	Apr. 13	1008	249	35	184
Bed-bottom	J. C. Peacock, J. B. Graves, and G. A. Huffor.	350,014	Sept. 28	2033	525	36	1450
Bed-bottom	J. Shepherd	342,545	May 25	2202	583	35	937
Bed-bottom	D. F. Stambaugh. (Reissue)	10,749	July 27	2364	606	36	450
Bed-bottom. Adjustable folding spring	J. L. Meeks	352,480	Nov. 9	1058	285	37	664
Bed-bottom. Knockdown	R. W. Woodman	347,080	Aug. 24	2143	570	36	683
Bed-bottom. Spring	I. W. Ames	335,873	Feb. 9	1106	293	34	647
Bed-bottom. Spring	A. Bell	336,202	Feb. 16	1601	420	34	739
Bed-bottom. Spring	E. P. Berray, C. W. Shepard, and H. White.	347,556	Aug. 17	1513	402	36	760
Bed-bottom. Spring	C. Carleton	349,478	Sept. 21	1294	336	36	1302
Bed-bottom. Spring	S. J. Clark	349,980	Sept. 28	1784	513	36	1441
Bed-bottom. Spring	R. W. Homan	353,360	Nov. 30	2281	609	37	917
Bed-bottom. Spring	A. Keenholts	341,246	May 4	385	106	35	576
Bed-bottom. Spring	T. P. Lynch	333,958	Jan. 5	630	173	34	118
Bed-bottom. Spring	A. F. Miller	341,494	May 11	726	195	35	647
Bed-bottom. Spring	W. A. Mooney	350,265	Oct. 5	225	63	37	47
Bed-bottom. Spring	M. C. Silver	337,396	Mar. 2	431	112	34	1006
Bed-bottom. Spring	S. D. Tuttle, Sr.	348,539	Aug. 31	2938	790	36	1041
Bed-bottom. Spring	J. R. Warren	337,902	Mar. 16	1370	355	34	1185
Bed-bottom. Spring	J. M. Wilson	336,538	Feb. 16	2072	545	34	823
Bed-bottoms. Fastening	W. S. Seymour	335,542	Feb. 2	625	164	34	552
Bed-bottoms. Machine for making coiled springs for	D. F. Stambaugh	343,928	June 15	1651	423	35	1323
Bed. Bureau-	A. Kulich	349,723	Sept. 28	1641	423	36	1375
Bed. Bureau-	A. Kulich	351,450	Oct. 26	1947	507	37	373
Bed. Bureau-	J. K. Stockton	349,467	Sept. 21	1278	332	36	1298
Bed. Chair-	H. C. Weeden	352,723	Nov. 16	1389	376	37	733
Bedclothes-holder	F. P. Sargent	337,200	Mar. 2	423	111	34	1004
Bedclothes-holder	H. O. Thomas	348,427	Aug. 31	2776	746	36	1011
Bedclothes-holder	H. O. Thomas	351,411	Oct. 26	1897	494	37	364
Bedclothes-securer	W. C. Walter	333,905	Jan. 5	558	150	34	104
Bed. Combination folding	A. T. McCurry	334,880	Jan. 26	1935	515	34	380
Bed. Folding	W. G. Angler	337,730	Mar. 9	1138	295	34	1136
Bed. Folding	K. Brooks	337,554	Mar. 9	929	238	34	1099
Bed. Folding	W. A. Brown	340,858	Apr. 27	2504	659	35	467
Bed. Folding	W. H. Dell	335,434	Feb. 2	484	126	34	528
Bed. Folding	C. W. Green	351,330	Oct. 19	1728	454	37	328
Bed. Folding	C. F. Hopf	339,414	Apr. 6	429	105	35	80
Bed. Folding	J. C. Horn and C. F. Hopf	337,158	Mar. 2	364	95, 96	34	994
Bed. Folding	I. Levy	339,439	Apr. 6	466	113	35	86
Bed. Folding	F. Munson	336,525	Feb. 16	2057	540	34	819
Bed. Folding	G. Sugg, J. Beiersdorf, and C. Runte.	344,291	June 22	2173	557	35	1423
Bed. Folding	H. E. Thayer	337,635	Mar. 9	1023	263	34	1117
Bed. Folding	I. R. Van Slyke	340,688	Apr. 27	2274	599	35	426
Bed. Folding cot-	G. E. Bedell	338,696	Mar. 30	2470	652	34	1397
Bed. Folding cot-	E. E. Herrinton and H. C. Russell	353,943	Dec. 7	423	114	37	1084

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bed for invalids. Adjustable	M. G. Farmer	335,441	Feb. 2	493	128, 129	34	530
Bed-heater	C. E. Bell	354,764	Dec. 21	1634	433	37	1318
Bed. Invalid	I. D. Johnson. (Reissue)	10,773	Oct. 19	1770	465	37	336
Bed-lounge	E. S. Hemmenway	334,528	Jan. 19	1466	393	34	285
Bed-lounge	O. Steebhan	347,446	Aug. 17	1363	363	36	731
Bed-lounge. Folding	F. H. Walker	334,550	Jan. 19	1502	402	34	290
Bed-lounge. Folding spring	F. H. Walker	334,549	Jan. 19	1501	401, 402	34	290
Bed-lounges. Locking-leg for	W. H and O. B. Johnson	351,034	Oct. 19	1346	354	37	259
Bed-pan	D. O'Brien	346,309	July 27	2149	553	36	412
Bed-pan	J. G. Reynolds	336,436	Feb. 16	1940	508	34	800
Bed-rest	W. H. Aldrich	335,412	Feb. 2	456	116	34	523
Bed-rest. Invalid	C. F. Lilley	340,334	Apr. 20	1775	453, 454	35	330
Bed-slat fastener	W. J. Ackerman	340,651	Apr. 27	2229	584	35	418
Bed. Sofa	M. Clune	337,481	Mar. 9	836	212	34	1083
Bed. Sofa	M. Gunn	338,949	Mar. 30	2833	747	34	1463
Bed. Spring	A. F. Keene	349,310	Sept. 21	1044	267	36	1254
Bed-spring	S. K. Butterfield	337,606	Mar. 9	1233	320	34	1153
Bed-spring	J. A. Kelly	343,641	June 15	1270	320	35	1251
Bed-spring	E. R. Yauger	350,180	Oct. 5	118	33	37	25
Bed-spring machinery. Double-spiral	H. A. Blackmer	338,702	Mar. 30	2480	655	34	1399
Bed-springs and spring-beds. Spring-connection for	H. S. Johnson	333,756	Jan. 5	359	97	34	67
Bed. Turn-up	D. C. Otis	347,009	Aug. 10	724	192	36	607
Bed. Wardrobe	J. J. Adgate	340,072	Apr. 20	1394	351	35	261
Bed. Wardrobe folding	J. T. Strahan	348,643	Sept. 7	151	42	36	1075
Beds. Bedclothing-clamp for	G. W. Street and J. S. Walters	352,497	Nov. 9	1078	290	37	668
Beds. Crib attachment for	J. T. Pace and W. G. Read	346,495	Aug. 3	59	15	36	471
Bedstead	T. Allen	347,912	Aug. 24	2041	539, 540, 541, 542	36	865
Bedstead	H. Beuttell	337,655	Mar. 9	1048	269	34	1121
Bedstead	G. Birkmann	337,920	Mar. 16	1392	361	34	1189
Bedstead	J. T. Detterer	337,936	Mar. 16	1419	367	34	1194
Bedstead	J. F. Draper	353,125	Nov. 23	1946	521	37	847
Bedstead	S. M. Hubbell	351,055	Oct. 19	1376	361	37	264
Bedstead	W. J. Myers	340,147	Apr. 20	1496	378	35	279
Bedstead	J. L. Stair	346,622	Aug. 3	219	60	36	503
Bedstead. Adjustable	C. A. Jenkens	335,560	Feb. 2	385	100	34	511
Bedstead and fire-place. Combined	Q. S. Backus	334,504	Jan. 19	1437	386	34	280
Bedstead. Bureau	M. Samuels	343,858	June 15	1569	398	35	1305
Bedstead. Cabinet	J. Cochrane and H. F. Kirk	336,993	Mar. 2	146	40	34	952
Bedstead-clamp	J. C. Gunn	346,153	July 27	1931	498	36	370
Bedstead-fastener	J. S. Dickey and W. P. McKinney	346,646	Aug. 3	252	69	36	509
Bedstead. Folding	G. W. Bisbee	341,724	May 11	1048	278	35	711
Bedstead. Folding	B. F. Farrar	339,283	Apr. 6	244	60, 61	35	45
Bedstead. Folding	P. A. Gould and F. A. Cook	349,643	Sept. 21	1502	390	36	1344
Bedstead. Folding	J. M. Montgomery, Jr	354,729	Dec. 21	1575	417	37	1307
Bedstead. Folding	L. E. Morrison	342,756	May 25	2506	667	35	995
Bedstead. Folding	C. W. Peoble	352,568	Nov. 16	1172	316	37	692
Bedstead for invalids and others	C. Weber	342,551	May 25	2209	587	35	939
Bedstead. Invalid	L. W. Fillebrown and F. B. Chandler.	335,218	Feb. 2	193	51	34	475
Bedstead. Invalid	C. H. Horner	348,910	Sept. 7	503	133	36	1140
Bedstead. Invalid	C. M. Littlejohn	351,641	Oct. 26	2239	579, 580	37	428
Bedstead. Invalid	H. Winter	352,941	Nov. 23	1680	451	37	797
Bedstead. Invalid	J. D. Zehring and H. Z. Jones	333,712	Jan. 5	302	83	34	56
Bedstead. Iron	A. L. Pringle	337,519	Mar. 9	884	225	34	1091
Bedstead. Metallic	G. A. Barth and W. Ramsey	341,311	May 4	486	132	35	593
Bedstead. Metallic	H. Beuttell	351,038	Oct. 19	1350	355	37	259
Bedstead or cot	H. Williams	336,679	Feb. 23	2288	597, 598	34	867
Bedstead. Portable folding camp	J. McKeough	337,415	Mar. 9	725	188	34	1065
Bedstead. Sofa	A. Haralson and G. R. Anderson	351,029	Oct. 19	1341	352	37	258
Bedstead. Wardrobe	R. B. Ayres	345,612	July 13	1155	296	36	214
Bedstead. Wardrobe	W. A. Morrison	336,818	Feb. 23	2464	647	34	901
Bedstead. Wardrobe	F. B. Williams	347,217	Aug. 10	1026	273, 274	36	662
Bedsteads. Attachment for wardrobe	F. B. Williams	347,079	Aug. 10	840	223	36	627
Bee-escape	C. A. Butler	346,023	July 20	1756	451	36	327
Bee-hive	E. Armstrong	346,883	Aug. 10	449	149	36	575
Bee-hive	E. S. Armstrong	349,073	Sept. 14	737	188	36	1186
Bee-hive	C. H. Beeler, Jr	348,308	Aug. 31	2615	704	36	980
Bee-hive	N. N. Betsinger	349,078	Sept. 14	744	190	36	1187
Bee-hive	J. J. McCullar	343,916	June 15	1640	420	35	1321
Bee-hive	W. M. Myers	338,595	Mar. 23	1893	493	34	1290
Bee-hive	J. M. Shuck	338,647	Mar. 23	2389	630	34	1377
Bee-hive	W. Sycster	348,935	Sept. 7	541	143	36	1146
Bee-hive	J. W. Tefft	349,126	Sept. 14	814	206	36	1199
Bee-hive	W. O. Vincent	347,097	Mar. 2	286	76	34	979
Bee-hive	J. F. Walker	343,212	June 8	635	158	35	1131
Bee-hive	M. N. Ward	344,914	Jan. 26	1978	527	34	388
Bee-hive	N. M. Weidman	336,185	Feb. 16	1576	413	34	734
Bee-hives. Device for inverting	J. M. Shuck	335,153	Feb. 2	73	20	34	453
Bee-trap	W. P. Hamlin	340,114	Apr. 20	1445	366	35	270
Beef press. Corned	C. Koeber	354,512	Dec. 14	1251	334	37	1241
Beer and charging the same with carbonic-acid gas. Clarifying	T. F. Straub	336,073	Feb. 9	1392	368	34	696
Beer and other liquors. Vessel for condensing	C. H. Johnson	333,952	Jan. 5	623	170	34	117
Beer and water cooler	J. F. Shomate	340,377	Apr. 20	1840	472	35	343
Beer apparatus	G. E. Collins	342,733	May 25	2477	657, 658	35	988

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Pages.
Beer. Apparatus for the preservation of	J. D. Hazlet and W. R. Bennett	343,125	June 1	507	128	35	1098
Beer apparatus. Pressure-regulator for	J. G. Mueller	354,482	Dec. 14	1203	321	37	1233
Beer. Compound for purifying	B. Mueller	338,284	Mar. 23	1893	.....	34	1290
Beer-cooling apparatus	H. C. Johnson	345,059	July 6	369	93	36	67
Beer-cooling apparatus	J. and J. Stuber	340,963	Apr. 27	2645	697	35	493
Beer-drawing apparatus	J. W. L. Colt and J. R. McNamara	335,566	Feb. 9	671	177	34	567
Beer-forcing apparatus	W. F. Class	342,329	May 25	1884	499	35	882
Beer from kegs. Apparatus for forcing	G. Surratt and H. Heyman	349,012	Sept. 14	655	169	36	1171
Beer in kegs. Apparatus for supplying carbonic-acid gas to	D. and T. Morris and C. A. Kern	343,596	June 15	1212	304	35	1241
Beer or fluid drip	F. C. and H. A. Stober	343,741	June 15	1429	357	35	1279
Beer-preserving apparatus	J. J. Hanlon	338,958	Mar. 30	2844	750	34	1465
Beer. Receptacle for carrying	L. Feely	338,053	Mar. 16	1584	412	34	1323
Beer-vent	W. Geisert	345,583	July 13	1122	287	36	207
Beer-weighing apparatus	J. Ohlweiler	341,270	May 4	417	114	35	582
Beer-weighing apparatus	J. Ohlweiler and E. Struppe	341,269	May 4	416	114	35	581
Beer with carbonic-acid gas. Process of hopping and preserving	D. and T. Morris and C. A. Kern	343,595	June 15	1211	304	35	1240
Bell	W. E. T. Merrill	350,145	Oct. 5	71	21	37	16
Bell	R. N. Williams	347,452	Aug. 17	1370	364	36	732
Bell and alarm. Electric	A. Lüngen	352,472	Nov. 9	1049	282	37	662
Bell attachment. Sleigh-	D. W. Sexton	335,151	Feb. 2	71	19	34	453
Bell. Bicycle-	T. E. Ware	334,495	Jan. 19	1423	383	34	278
Bell. Call-	H. A. Dierkes	353,848	Dec. 7	277	73	37	1057
Bell. Call-	W. C. Homan	337,157	Mar. 2	363	95	34	993
Bell. Car gong-	J. Stephenson	339,342	Apr. 6	326	82	35	61
Bell-cord coupling	C. C. Shelby	349,061	Sept. 14	723	184	36	1183
Bell-cord coupling	G. W. Wood	341,301	May 4	473	128	35	591
Bell-cord coupling. Electric	H. B. Cox	340,426	Apr. 20	1894	477	35	353
Bell-cord. Electric	H. B. Cox	340,425	Apr. 20	1893	487	35	353
Bell cord. Electric-	H. B. Cox	350,293	Oct. 5	261	76	37	54
Bell-crank	N. Magee	345,438	July 13	894	223	36	166
Bell. Door-	T. M. Bales and S. O. Leeson	351,245	Oct. 19	1627	427	37	311
Bell. Door-	H. A. Bierley	347,221	Aug. 10	1030	275	36	662
Bell. Door-	E. S. Bloomfield, Jr.	337,657	Mar. 9	1050	279	34	1122
Bell. Door-	E. S. Bloomfield, Jr.	337,658	Mar. 9	1051	270	34	1122
Bell. Door-	C. W. Ballard	347,226	Aug. 10	1037	276, 277	36	664
Bell. Door-	C. L. Livingston	349,437	Sept. 21	1233	320	36	1289
Bell. Door-	W. A. Milligan	336,464	Feb. 23	2520	664	34	911
Bell. Door-	F. Sanderson	354,351	Dec. 14	1036	277	37	1203
Bell. Door-	H. J. P. Whipple	349,559	Sept. 21	1392	361	36	1321
Bell. Door-	R. A. Wooding	344,763	June 29	2804	726	35	1546
Bell. Electric	E. Carhart	344,940	July 6	197	51	36	37
Bell. Electric	C. F. De Redon	333,614	Jan. 5	153	42	34	31
Bell. Electric	C. A. Tucker and O. H. Huebel	353,374	Nov. 23	2159	578	37	889
Bell. Electric vibrating call or signal	C. Henzel	351,599	Oct. 26	2180	563	37	417
Bell for church and other chimes. Musical	F. Widdows	352,794	Nov. 16	1480	399	37	750
Bell. Gong-	E. C. Barton	345,101	July 6	419	108	36	76
Bell. Letter-box	M. W. Ator	354,032	Dec. 7	555	151	37	1107
Bell. Magneto-electric	F. E. Fisher	335,999	Feb. 9	1285	341	34	677
Bell. Pneumatic signal-	J. A. Maloney	347,183	Aug. 10	979	261, 262	36	653
Bell. Pneumatic signal-	J. A. Maloney	347,184	Aug. 10	980	262	36	653
Bell-ringer	E. G. Nutting	343,059	June 1	403	103	35	1079
Bell switch. Call-	L. Townsend	350,024	Sept. 28	2044	527	36	1452
Bell system. Electric hotel call-	J. L. Beers	338,697	Mar. 30	2471	652	34	1397
Bells. Striker for electric	C. A. Tucker and W. H. Markland	353,373	Nov. 23	2158	578	37	888
Bellows	G. T. Campbell	334,934	Jan. 26	2000	533	34	392
Bellows	J. F. Dodge	342,664	May 25	2396	635, 636	35	974
Bellows	J. F. Weitzel	334,319	Jan. 12	1175	315	34	226
Belt and suspender. Combined	J. Adler	340,185	Apr. 20	1562	394	35	291
Belt and truss. Electric	A. T. Sherwood	335,638	Feb. 9	775	205	34	586
Belt. Cartridge-	W. S. Capewell	346,719	Aug. 3	340	92	36	527
Belt catcher and supporter	S. N. Silver	340,629	Apr. 27	2191	577	35	412
Belt-clamp	J. W. P. Johnson	351,514	Oct. 26	2046	531	37	393
Belt-clasp	G. E. Zellmacher	343,415	June 8	957	229	35	1188
Belt. Driving-	F. Wegmann	338,896	Mar. 30	2766	739	34	1450
Belt. Electric	M. Payne and D. Benson	340,815	Apr. 27	2449	644	35	458
Belt. Electric	P. F. Valiant	336,450	Feb. 16	1962	514	34	803
Belt. Electric	H. W. Watkins	351,233	Oct. 19	1610	422	37	308
Belt. Electric	J. H. Woodward	338,683	Mar. 23	2447	645	34	1386
Belt-fastener	E. C. Smith	338,565	Mar. 23	2277	597	34	1358
Belt-fastener	A. Wilson	347,857	Aug. 24	1957	519	36	851
Belt fastener. Machine-	S. E. Landis	346,113	July 27	1865	482	36	357
Belt for body wear. Electric	G. A. Wright	343,620	June 15	1247	313	35	1247
Belt. Galvanic	H. M. Beidler	335,417	Feb. 2	463	119	34	524
Belt. Galvanic	J. H. Murray	346,315	July 27	2015	520	36	386
Belt-gearing	B. F. Barnes	354,849	Dec. 21	1739	461	37	1339
Belt-gearing	J. Wittmann and N. B. Yingling	355,239	Dec. 28	2308	608	37	1460
Belt-guide	J. A. Ingram	348,285	Aug. 31	2580	694	36	973
Belt. Machinery-	H. C. Babcock	338,016	Mar. 16	1537	399	34	1215
Belt or pad. Medical electric	J. McGrady and G. H. Sloane	348,406	Aug. 31	2744	737	36	1005
Belt or strap fastener	W. R. Harris	346,747	Aug. 3	369	99	36	533
Belt protector and guide	M. Stansel	342,269	May 18	1777	471	35	854
Belt-reel	D. B. Kuhn	337,002	Mar. 2	163	43	34	954
Belt. Therapeutic electric	I. Gray	347,592	Aug. 17	1561	415	36	770
Belt-tightener	C. G. Lott	354,836	Dec. 21	1725	456	37	1336
Belt tightener. Chain-	O. Cooley	339,861	Apr. 13	1163	275	35	202
Belt-tightener for spinning-machines, &c	J. E. Tynan	336,027	Feb. 9	1322	350	34	683
Belt. Voltaic	A. T. Sherwood	335,637	Feb. 9	773	205	34	586
Belts, bands, &c. Connection for	S. Wales	348,871	Sept. 7	446	119	36	1130
Belts. Machine for coating emery	S. J. Smith	345,083	July 6	397	100	36	72
Belts. Slide for sword-	F. T. Buffum	334,101	Jan. 12	845	231	34	164

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Belting	G. H. Blakesley	350,106	Oct. 5	15	4	37	6
Belting	J. D. Channell	344,563	June 29	2549	659	35	1499
Belting	T. Gingras	335,187	Feb. 2	143	37	34	467
Belting	B. L. Stowe. (Reissue)	10,777	Nov. 2	550	145	37	561
Belting	A. D. Westbrook	351,301	Oct. 19	1703	446	37	324
Belting. Canvas	M. Gandy	352,460	Nov. 9	1639	2-0	37	660
Belting. Coupling for round	D. C. Smith	342,850	June 1	103	26	35	1025
Belting for driving machinery	A. Broadnax	340,280	Apr. 20	1701	433	35	316
Belting. Machine	A. J. Gasking	344,698	June 22	1902	487	35	1375
Belting. Machine	J. and J. Lee	352,548	Nov. 16	1142	309	37	687
Belting. Machine	G. Meacom	333,873	Dec. 7	316	82	37	1065
Belting. Machine	W. L. Teter	341,704	May 11	1025	271	35	706
Belting. Machinery	R. F. M. Chase	336,990	Mar. 2	143	39	34	951
Belting. Woven	F. Reddaway	334,895	Jan. 26	1951	519	34	383
Bench:							
See Wash-bench. Work-bench.							
Bench-clamp	S. G. Hosack	349,099	Sept. 14	780	198	36	1193
Bench-dog	F. M. Fairchild	351,755	Nov. 2	37	10	37	466
Bench-dog	B. B. Hoopes	349,996	Sept. 28	2005	518	36	1445
Bench-hook	J. B. Boyce	335,423	Feb. 2	470	121	34	525
Bench-hook	A. J. Tyler	339,602	Apr. 6	741	182	35	130
Bench-hook	A. J. Tyler	341,436	May 4	640	175	35	621
Bench-plate	F. E. Thompson and J. W. Stedman.	349,619	Sept. 21	1477	382	36	1338
Bench-stop	G. B. Gardner	349,881	Sept. 28	1851	478	36	1417
Bending-block	D. C. and J. G. Mahon	337,006	Mar. 2	168	45	34	955
Berth. Automatic ship's	J. B. Secor	343,072	June 1	419	107 108	35	1082
Bevel	E. D. Farnham	339,633	Apr. 13	796	186	35	146
Bevel. Carpenter's	W. T. Kelly	341,753	May 11	1084	289	35	718
Bevel. Transfer	C. Head	336,409	Feb. 16	1904	498	34	793
Beverages. Apparatus for making carbonated	H. Robertson	351,126	Oct. 19	1468	384 385	37	281
Bib or apron	W. B. Logan	352,471	Nov. 9	1048	282	37	662
Bicycle	A. A. Carter	354,535	Dec. 21	1291	344	37	1256
Bicycle	C. E. Duryea	333,936	Jan. 5	601	164	34	113
Bicycle	C. E. Duryea	350,583	Oct. 12	678	185	37	130
Bicycle	G. D. Ferris	354,777	Dec. 21	1650	436	37	1321
Bicycle	E. H. Foote	334,578	Jan. 19	1538	411	34	298
Bicycle	J. Gibbons and C. D. Meneely	351,972	Nov. 2	352	97	37	524
Bicycle	J. H. Healey	341,237	May 4	375	103	35	534
Bicycle	T. B. Jeffery	352,190	Nov. 9	693	185	37	593
Bicycle	G. S. Long	377,774	Mar. 9	1193	310	34	1146
Bicycle	A. K. McMurray	351,118	Oct. 19	1458	382	37	279
Bicycle	C. A. Prescott	341,389	May 4	589	162	35	612
Bicycle	D. H. Rice	342,878	June 1	146	37	35	1032
Bicycle	L. A. Rust	353,360	Nov. 30	2309	617	37	922
Bicycle	J. T. Slocomb	349,532	Sept. 21	1364	354 355	36	1316
Bicycle	B. S. Whitehead	341,526	May 11	768	207	35	656
Bicycle	E. L. Winey	353,904	Dec. 7	368	98	37	1074
Bicycle	J. L. Yost	334,325	Jan. 12	1186	319	34	228
Bicycle-handle	F. H. Morse	347,054	Aug. 10	793	211	36	619
Bicycle-handle	R. Rodes, Jr.	353,504	Nov. 30	2498	666	37	958
Bicycle-leg	J. F. Morgan	335,297	Feb. 9	297	79	34	494
Bicycle-lock	A. P. Merrill	337,183	Mar. 2	405	105	34	1000
Bicycle-pedal	E. A. Richardson	341,946	May 18	1339	358	35	773
Bicycle-pedal	T. J. Strickland	347,977	Aug. 24	2139	570	36	883
Bicycle-saddle	R. Beau	341,547	May 11	865	214	35	662
Bicycle-saddle	L. S. Cooper	351,251	Oct. 19	1633	429	37	312
Bicycle-saddle	W. L. Fish	345,424	July 13	874	218	36	162
Bicycle-saddle	W. H. Hale	339,289	Apr. 6	251	62	35	47
Bicycle-saddle	F. Lillibridge	337,171	Mar. 2	388	101	34	997
Bicycle-saddle	J. Payne	342,925	June 1	213	55	35	1044
Bicycle-saddle	T. J. Regnier	334,469	Jan. 19	1391	375	34	272
Bicycle-saddle	G. Rothgiesser	335,546	Feb. 2	228	60	34	481
Bicycle-seat	C. M. Clarke	334,164	Jan. 12	942	255	34	181
Bicycle shoe	T. J. Strickland	343,777	June 15	1470	368	35	1287
Bicycle-stand	A. W. Gump	350,243	Oct. 5	200	57	37	42
Bicycle-stand	A. J. Philbrick	350,990	Oct. 19	1286	338	37	248
Bicycle-suspender	S. W. Babbitt	352,508	Nov. 16	1094	295	37	679
Bicycle-tire	L. E. Whiten	345,351	July 13	766	192	36	144
Bicycles. Hood attachment for	H. W. Libbey	339,793	Apr. 13	1015	250	35	185
Bicycles. Lantern-banger for	T. B. Jeffery	352,191	Nov. 9	696	186	37	594
Bicycles. Luggage-carrier for	J. A. Lamplugh	343,909	June 15	1631	416	35	1318
Bicycles. Luggage-carrier for	C. H. Ross	343,549	June 8	1137	287	35	1220
Bicycles. Saddle-spring for	L. S. Copper	350,868	Oct. 12	10-9	290	37	205
Biet	G. W. Newton and G. Terry	353,373	Nov. 30	2299	614	37	920
Bilge-water ejector	G. Haydn	333,753	Jan. 5	356	96	34	67
Bilge-water indicator	J. F. Smethells	333,686	Jan. 5	252	68	34	49
Bill-holder	J. R. and J. Ferguson	335,907	Feb. 9	1168	311	34	657
Billiard-bridge hook or support	W. L. Braddock and H. J. Witchell.	353,013	Nov. 23	1784	480	37	81
Billiard-chalk holder	W. E. Davis	337,311	Mar. 2	881	153	34	1031
Billiard-chalk holder	H. A. Tyler and B. McGovern	336,028	Feb. 9	1324	350	34	681
Billiard-chalk holder	W. Zaehringer	334,099	Jan. 12	844	231	34	164
Billiard-cue	J. A. Tracy	338,888	Mar. 30	2756	725	34	1448
Billiard-cue clamp	J. Callahan	337,659	Mar. 9	1052	270	34	1122
Billiard-cue tip	J. Penning	343,235	June 8	673	167	35	1137
Billiard-cue-tip fastener	H. A. Harmer	334,861	Jan. 26	1915	510	34	376
Billiard-cue-tip fastening	E. Ferchland	338,724	Mar. 30	2517	666	34	1405
Billiard-register. Automatic	J. J. Gleason	343,169	June 8	577	144	35	1120
Billiard-table leveler	J. F. Conley	342,331	May 25	1887	499	35	882
Billiard-table leveler	F. Himes	341,481	May 11	711	191	35	644
Billiard-table leveler	E. A. Hornbostel	338,667	Mar. 23	2423	639	34	1382
Billiard-tables. Apparatus for leveling	C. A. Gregory	344,269	June 22	2140	548	35	1417
Billiards. Time-register for	R. C. Whittman	346,880	Aug. 3	544	148	36	566

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Bin	G. C. Chase	346,191	July 27	1980	511	36	379
Bin	J. D. Gailor	334,652	Jan. 19	1642	438	34	318
Binder. Automatic	W. N. Whiteley and W. Bayley	354,286	Dec. 14	949	250	37	1185
Binder for music, periodicals, &c.	J. C. Koch	338,350	Mar. 23	1986	523	34	1307
Binder for papers. Temporary	E. L. Shipman	336,954	Mar. 2	96	26	34	943
Binder. Temporary	F. H. Coffin	337,604	Mar. 9	1057	272	34	1123
Binder. Temporary	A. Dom	344,036	June 22	1840	466	35	1377
Binder. Temporary	W. D. Ready	343,066	June 1	411	105	35	1061
Binding strip for papers, &c.	I. W. Heysinger	341,005	May 4	46	12	35	514
Bird-cage	B. A. Drayton	334,573	Jan. 19	1532	409 / 410	34	297
Bird-cage	A. B. Hendryx	346,283	July 27	2112	543	36	405
Bird-cage bracket	S. B. Derby	336,218	Feb. 16	1633	427	34	743
Bird-cage protector	W. S. Armstrong	341,540	May 11	798	213	35	661
Bird-cage screen	S. A. Bishop	339,366	Apr. 6	364	88	35	68
Bird-cage screen	A. B. Hendryx	348,012	Aug. 24	2183	581	36	892
Bird-cages. Food-holder for	J. W. Klett	350,310	Oct. 5	280	79	37	57
Biscuit-cutter	R. J. Hewitt	337,329	Mar. 2	603	158	34	1037
Bisulphites. Making	W. O. and W. P. Crocker	339,975	Apr. 13	1252	.....	35	229
Bit: *See* Animal-bit. Bridle-bit. Boring and routing bit.							
Bit-brace	W. P. Bullard	347,417	Aug. 17	1311	350	36	723
Bit-brace	J. L. Osgood	344,130	June 22	1947	497	35	1382
Bit-brace. Ratchet	J. A. Bolen	342,727	May 25	2466	673	35	986
Bit-braces. Machine for applying heads to	C. H. Amidon	348,182	Aug. 31	2440	655	36	945
Bit-holder	R. W. Perry	354,485	Dec. 14	1208	324	37	1233
Bit-holder	J. Swan	337,888	Mar. 16	1349	370	34	1141
Bit-stock	A. W. Morgan	355,276	Dec. 28	2376	619	37	1429
Bitters	J. H. Owings	350,988	Oct. 19	128-5	.....	37	248
Blackboard and map support. Combined	H. E. Hayes	351,914	Nov. 2	272	74, 75	37	507
Blackboard and perforated desk-top. Combined	F. E. Eller	343,164	June 8	569	143	35	1119
Blackboard and writing-desk combined	H. E. Butler and M. Harris	346,838	Aug. 3	479	132	36	554
Blackboard-eraser	F. Cheney	345,830	July 20	1485	383	36	259
Blackboard. Flexible	F. Russell	342,762	May 25	2514	671	35	986
Blackboard. School	J. Frey	338,397	Mar. 23	2059	540	34	1319
Blackboard-walls. Composition for	J. A. Ditch	339,155	Apr. 6	53	.....	35	13
Blackboards. Composition for	A. Lilley	351,329	Oct. 19	1739	.....	37	330
Blacking-box	C. H. Jackson	343,033	June 1	360	93	35	1072
Blacking-box	E. C. Johnston	344,447	June 29	2383	614	35	1469
Blacking-box	G. Ridgeway	346,748	Feb. 23	2369	620	34	882
Blacking-box. Combination	A. M. Lee	348,468	Aug. 31	2834	762	36	1032
Blacking-box. Handled	L. H. White	353,725	Dec. 7	108	29	37	1026
Blacking-box holder	L. F. Eaton	345,937	July 20	1659	428	36	311
Blacking-box holder	G. E. Meeker and E. R. Fisher	353,551	Nov. 30	2594	682	37	976
Blacking-box holder	F. Wellington	349,328	Sept. 21	1065	273	36	1258
Blacking boxes and brushes. Holder for	W. A. Pope	347,641	Aug. 17	1654	439	36	787
Blacking-case	E. R. Roehm	353,969	Dec. 7	465	126	37	1091
Blacking-machine. Boot and shoe	R. T. Roberts	346,592	Feb. 23	2153	563	34	843
Blacking stand and stool combined. Shoe-	F. E. Levanseler	353,317	Nov. 30	2222	593	37	906
Blacking stand or case	J. C. Bioren	354,175	Dec. 14	777	208	37	1155
Blacksmith's furnace	H. D. King	353,686	Dec. 7	47	15	37	1015
Blacksmith's hearth	H. Branchler	337,735	Mar. 9	1145	297	34	1138
Blacksmith's shears	J. W. Devero	341,024	Oct. 19	1335	350	37	257
Blank. Business	W. P. Groom	336,007	Feb. 9	1295	345	34	679
Blank-creasing mechanism	F. H. Richards	351,283	Oct. 19	1675	439 / 440	37	319
Blank forms. Case for holding	H. J. Hoffman	348,015	Aug. 24	2186	582	36	892
Blanks for effecting the intertransfer of ownership of property. Set of	W. P. Groom	336,005	Feb. 9	1293	344	34	678
Blanket-fastening	W. B. Pritchard	352,487	Nov. 9	1065	287	37	606
Blanket or similar article	R. G. Henry	351,031	Oct. 19	1343	353	37	258
Blast cupola. Hot and force	M. Hamm	354,899	Dec. 28	1818	480 / 481	37	1365
Blast-furnace	W. H. Rosewarne	342,466	May 25	2087	550 / 551	35	917
Blast-furnace appliance	W. Rotthoff	336,749	Feb. 23	2369	620 / 621	34	883
Blast-furnaces. Cinder-car for	P. L. Weimer	353,009	Nov. 23	1777	478	37	815
Blast-furnaces. Tuyere-pipe for	F. W. Gordon	349,841	Sept. 28	1802	466	36	1406
Blast-heating oven. Air-	E. Peckham	343,061	June 1	406	104	35	1060
Blast oven. Hot-	V. O. Strobel	340,163	Apr. 20	1518	384	35	284
Blast ovens. Cleaning apparatus for hot-	V. O. Strobel	350,569	Oct. 12	662	181	37	127
Blast ovens. Valve for hot-	V. O. Strobel	350,568	Oct. 12	661	181	37	127
Blast regulator. Fan-	J. J. Wilson	336,537	Feb. 16	2071	544	34	823
Blasting-barrel, measuring-rule, and drill-hole scraper. Combined	J. E. Fehn	334,765	Jan. 26	1796	478	34	355
Blasting-earth	H. H. Bourne	351,959	Nov. 2	330	92	37	519
Blasting-plug	H. F. Leonard	351,273	Oct. 19	1063	437	37	317
Blasting-rock	J. L. L. Knox	342,366	May 25	1947	515	35	892
Blasting-tamp	W. Galloway	353,488	Nov. 30	2469	660	37	953
Bleaching	W. Mather	333,875	Jan. 5	517	.....	34	96
Bleaching apparatus	J. Meikle	338,096	Mar. 16	1646	428	34	1256
Bleaching compound	C. Toppan	350,218	Oct. 5	174	.....	37	36
Bleaching-powder. Manufacture of	E. Solvay	339,493	Apr. 6	516	.....	35	101
Blind-adjusting device	B. D. Washburn	335,861	Feb. 9	1091	288	34	641
Blind and wire screen. Combination of	F. A. Ransom	336,944	Mar. 2	84	23	34	943
Blind for windows. Folding	A. J. Arthur	341,542	May 11	800	213	35	661
Blind. Inside	A. J. Arthur	341,541	May 11	799	213	35	661
Blind. Inside	W. A. Holbrook	355,164	Dec. 28	2260	590	37	1437
Blind. Inside window	J. Auld	355,045	Dec. 28	2023	532	37	1403
Blind. Inside window	J. Auld	355,046	Dec. 28	2024	533	37	1403
Blind. Movable-slat rolling	A. Wulff	344,799	June 29	2858	739 / 740	35	1558

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Blind-operating device	D. H. Royer	339,326	Apr. 6	305	76	35	58
Blind or other ventilating adjunct for buildings	G. Hayes	345,690	July 20	1283	333	36	244
Blind or shutter for windows	J. Thornton	340,387	Apr. 20	1852	475	35	345
Blind, shutter, or screen	B. D. Stevens	333,565	Jan. 5	86	25	34	19
Blind, shutter, or screen. Sliding	B. D. Stevens	342,715	May 25	2445	649	35	983
Blind-slat, &c	G. Hayes	335,333	Feb. 2	376	98	34	509
Blind-slat and apparatus for operating the same	G. Hayes	345,689	July 20	1281	332	36	243
Blind-slat adjuster	P. A. Lewis	341,338	May 4	514	142	35	598
Blind-slat adjuster	R. M. Martin	337,375	May. 2	530	139	34	1024
Blind-slat adjuster	J. Naylor	342,134	May 18	1588	423	35	820
Blind-slat adjuster	P. Rundquist	334,093	Jan. 26	2230	592	34	432
Blind-slat adjuster	G. L. Williams	343,881	June 15	1594	406	35	1311
Blind-slat tenoning machine	G. W. Bugbee and F. Danner	336,835	Feb. 23	2484	653	34	904
Blind slat. Window-	S. Palmer	346,678	Aug. 3	2-7	78	36	517
Blind-slats. Device for operating	B. D. Stevens	340,017	Apr. 13	1317	329	35	241
Blind-slats. Device for adjusting	E. P. Tucke	349,416	Sept. 21	1203	311 / 312	36	1284
Blind. Sliding	W. A. Holbrook	352,751	Nov. 16	1419	383	37	740
Blind-stapling machine	N. P. Peterson	335,304	Feb. 2	305	81	34	495
Blind. Venetian	B. D. Stevens	340,960	Apr. 27	2641	696	35	492
Blind. Window-	A. J. Arthur	341,543	May 11	800	213	35	661
Blind. Window-	J. J. Guldhang	349,252	Sept. 14	9-2	250	36	1233
Blind. Window-	H. Hawley	337,152	Mar. 2	359	94	34	992
Blind. Window-	A. H. Hill. (Reissue)	10,692	Feb. 23	2563	676 / 677	34	919
Blind. Window-	S. Palmer	343,724	June 15	1407	350	35	1275
Blind. Window-	C. W. Radford	346,220	July 27	2021	521	36	388
Blinds. Fixture for sliding	W. A. Holbrook	353,858	Dec. 7	293	77	37	1060
Blinds. Spring-strip for inside	W. A. Holbrook	355,167	Dec. 28	2198	580 / 581	37	1437
Block:							
See Bending-block. Meat-block.							
Building-block. Paving-block.							
Chock-block. Pillow-block.							
Educational block. Printing-block.							
Filing-block. Pulley-block.							
Fodder-block. Saw-mill head-block.							
Fuel-block. Stereotype-block.							
Hat-finishing block. Stop-block.							
Horse-block. Tackle-block.							
Keel-block. Wire-drawing block.							
Blotter	J. H. Barley	335,674	Feb. 9	820	219	34	594
Blotter	J. Felbel	337,675	Mar. 9	1070	276	34	1125
Blotter	A. S. Johnston	351,266	Oct. 19	1652	434	37	315
Blotter-bath	B. B. Hill	335,584	Feb. 9	695	184	34	572
Blotter-bath	B. B. Hill	335,585	Feb. 9	695	184	34	572
Blotter-case for copying-presses	J. W. Callard	350,602	Oct. 12	956	267	37	188
Blotter. Revolving	J. A. Cook	342,781	June 1	11	4	35	1008
Blotter-support	H. C. Goodrich	341,804	May 11	1144	303	35	729
Blotting-pad	S. Wales	352,170	Nov. 9	670	178	37	588
Blotting-pad and memorandum-book. Combined	H. C. Whitney	337,101	Mar. 2	290	77	34	980
Blotting-pad holder	W. W. Gelatt	337,391	Mar. 9	695	179	34	1059
Blotting-pad, ruler, and paper-cutter	G. D. Barr	337,651	Mar. 9	1043	268	34	1120
Blow-pipe and lamp. Combined	A. C. Frieseke	351,318	Oct. 19	1725	453	37	328
Blower	J. H. Blakely	341,218	May 4	347	96	35	568
Blower	W. G. Brownson	348,488	Aug. 31	2863	770	36	1027
Blower	E. A. Magee	344,000	June 22	1755	452	35	1349
Blower and heat-regulator	N. Poulson	339,465	Apr. 6	506	122 / 123	35	94
Blower. Fire-place	H. F. Baker	354,173	Dec. 14	773	207	37	1154
Blower for stacks of boiler-furnaces. Steam-	T. Poore	333,543	Jan. 5	63	18	34	14
Blower for stoves and fire-places. Adjustable	J. L. Gobeille	350,194	Oct. 5	134	39	37	28
Blower for stoves and grates. Balance-	J. L. Gobeille and W. Wicke	349,217	Sept. 14	920	238	36	1222
Blower-handle	W. A. Hart	338,227	Mar. 16	1817	475	34	1260
Blower. Pressure-	W. C. Winfield	355,111	Dec. 28	2116	556	37	1421
Blower. Rotary	P. L. Weimer	345,751	July 20	1370	357	36	259
Blower. Sand-	E. F. Freeman	346,650	Aug. 3	255	70	36	510
Blowers. Device for operating sectional	H. P. Cope	345,574	July 13	1109	283	36	205
Blowing-engine	P. L. Weimer	354,279	Dec. 14	935	246 / 247	37	1182
Blowing-engine	P. L. Weimer	354,453	Dec. 14	1162	310 / 311	37	1226
Blue compound. Resorcin-	H. M. Baker	348,816	Sept. 7	369	.....	36	1116
Blue. Soluble laundry-	G. W. Barlow	351,484	Oct. 26	2005	.....	37	384
Boa-holder	S. Simmons	351,941	Nov. 2	311	86	37	515
Board:							
See Base-board. Key-board.							
Bosom-board. Organ sound-board.							
Center-board. Pastry-board.							
Drawing-board. Press-board.							
Drying-board. Record-board.							
Electric switch-board. Shirt-board.							
Siding and roofing board.							
Game-board. Spelling-board.							
Guide-board. Switch-board.							
Harvester butt-board. Wagon shoveling-board.							
Wagon spring-board.							
Ironing-board. Wash-board.							
Boat:							
See Fisherman's minnow-boat. Portable boat.							
Sectional and folding boat.							
Hunting-boat. Submarine boat.							
Hunting and fishing boat. Submarine torpedo-boat.							
Torpedo-boat.							
Life-boat.							
Boat	H. Darcy	341,225	May 4	359	99	35	571

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Boat-detaching device	L. L. Creamer and F. A. Sparks	338,164	Mar. 16	1733	452	34	1253
Boat-lowering apparatus	E. Mühl	354,869	Dec. 21	1773	467	37	1345
Boats or small vessels. Machine for bending, shaping, and setting the timbers or frames of	J. A. Dower	333,615	Jan. 5	154	42	34	31
Bobbin	C. M. Currier	344,770	June 29	2813	728	35	1548
Bobbin	G. E. Grimm	342,437	May 25	2046	540	35	909
Bobbin-winder	W. Connolly	335,019	Jan. 26	2118	564	34	413
Bobbin-winder	W. Connolly	336,296	Feb. 16	1755	459	34	763
Bobbin-winding machine	G. Scheibler	344,681	June 29	2896	700	35	1528
Bobbin-reamer	S. C. Ketchum	353,864	Dec. 7	299	78	37	1061
Bobbin-reamer	E. H. Perrigo	348,412	Aug. 31	2751	739	36	1006
Bobbins and spools. Controlling the unwinding of thread, twine, and cord from	J. Good	352,312	Nov. 9	853	230	37	623
Boiler: *See* Agricultural boiler. Clothes-boiler. Kitchen range or pressure boiler. Locomotive-boiler. Range-boiler. Sectional steam-boiler. Sorghum-boiler. Steam-boiler. Steam and hot-water boiler. Steam-heater boiler. Traction-engine boiler. Wash-boiler. Water-gage boiler. Water-tube boiler.							
Boiler	E. V. Hutchens	350,592	Oct. 12	696	188	37	133
Boiler	F. J. Korte	348,918	Sept. 7	518	137	36	1142
Boiler	W. C. Pennock	334,277	Jan. 12	1125	302	34	217
Boiler	T. Poore	336,431	Feb. 16	1933	507	34	798
Boiler	T. Seevers	340,827	Apr. 27	2465	648	35	461
Boiler	E. T. Sykes	333,571	Jan. 5	96	27	34	21
Boiler and steamer	S. W. France	333,740	Jan. 5	340	92	34	63
Boiler attachment	E. F. Barber	350,099	Oct. 5	7	2	37	4
Boiler attachment	W. Donegan	340,200	Apr. 20	1585	401	35	295
Boiler-cleaner	H. V. Faries and C. D. Wilcox	352,235	Nov. 9	750	201	37	604
Boiler-cleaner	J. T. Hardy	354,016	Dec. 7	532	145	37	1103
Boiler-cleaner	J. Millar and G. Feeny	348,530	Aug. 31	2927	786	36	1038
Boiler-cleaner	W. Row	349,955	Sept. 28	1949	504	36	1435
Boiler-cleaner. Automatic	H. Sims	344,925	July 6	179	46	36	33
Boiler-cleaner. Electro-magnetic	G. W. Hart	354,637	Dec. 21	1450	385	37	1283
Boiler cleaner. Kitchen-	W. B. Davis	337,748	Mar. 9	1160	301	34	1140
Boiler-covering	H. M. Hanmore	345,843	July 20	1592	389	36	281
Boiler-covering	M. Keenan	344,117	June 22	1933	.....	35	1380
Boiler-covering	R. Stewart	349,183	Sept. 14	886	228	36	1214
Boiler-covering composition	W. M. Suhr	339,820	Apr. 13	1047	259	35	192
Boiler-deflector	E. S. T. Kennedy	349,720	Sept. 28	1631	420 / 421	36	1373
Boiler-explosions. Preventing	W. Titcomb	339,598	Apr. 6	736	181	35	129
Boiler-feeder	C. K. McGehee	342,528	May 25	2180	578	35	932
Boiler fire-box	T. Poore	335,715	Feb. 9	885	234	34	605
Boiler for house-warming apparatus	R. S. Watson	344,699	June 29	2717	706	35	1532
Boiler for steaming food	L. S. Bunker	351,094	Oct. 19	1427	374	37	273
Boiler-flue cleaner	J. L. Kelley	335,820	Feb. 9	1035	274	34	633
Boiler-flue cleaner	J. H. Weitmyer	347,145	Aug. 10	929	248	36	644
Boiler-front	W. A. Hennessey	353,306	Nov. 30	2208	591	37	904
Boiler-furnace	J. B. Archer	341,623	May 11	909	242	35	683
Boiler-furnace	J. B. Archer	341,626	May 11	914	242	35	684
Boiler-furnace	J. B. Archer	341,628	May 11	917	243	35	684
Boiler-furnace	A. Backus, Jr	338,462	Mar. 23	2145	561	34	1335
Boiler-furnace	E. Bolleau	335,207	Feb. 2	171	45	34	471
Boiler-furnace	S. Fiske	342,434	May 25	2043	539	35	909
Boiler-furnace	J. Ham	354,057	Dec. 7	589	160	37	1113
Boiler-furnace	E. J. C. Kelly	343,128	June 1	512	129 / 130	35	1099
Boiler-furnace	J. S. Loomis	335,825	Feb. 9	1040	275	34	634
Boiler-furnace	T. Poore	333,544	Jan. 5	64	18	34	15
Boiler-furnace	M. Walker	354,774	Dec. 21	1620	429	37	1315
Boiler-furnace	J., J., and F. Zerr	336,370	Feb. 16	1850	485	34	783
Boiler furnace. Portable steam-	W. J. F. Liddell	344,970	July 6	238	60	36	43
Boiler furnace. Steam-	M. W. Barse	345,357	July 13	775	194	36	145
Boiler furnace. Steam-	J. Cannan	339,149	Apr. 6	32	11	35	9
Boiler furnace. Steam-	J. Ham	348,463	Aug. 31	2826	759	36	1020
Boiler furnace. Steam-	G. Hasecoster	350,245	Oct. 5	202	58	37	42
Boiler furnace. Steam-	L. Johnston	333,954	Jan. 5	625	171	34	117
Boiler furnace. Steam-	H. B. Meech	341,034	May 4	82	22-23	35	520
Boiler furnace. Steam-	G Selden	353,595	Nov. 30	2633	703	37	984
Boiler furnace. Steam-	L. Stevens	351,475	Oct. 26	1992	518	37	582
Boiler furnace. Steam-	H. Thompson	353,610	Nov. 30	2654	709 / 710	37	987
Boiler furnace. Steam-	R. Wheelan	341,196	May 4	311	88	35	562
Boiler or other furnace. Steam-	J. H. Blanchard and F. A. Jones	343,531	June 8	1108	279 / 280	35	1215
Boiler or tube covering	W. M. Suhr	340,740	Apr. 27	2353	619	35	439
Boiler or vessel lined with lead for use in treatment of fibrous substances.	C. W. Flodqvist	348,457	Aug. 31	2819	757	36	1019
Boiler purifier and feeder	H. F. Hayden	334,774	Jan. 26	1806	480	34	357
Boiler-scale. Fluid for removing	J. N. Pirrong	341,686	May 11	1003	.....	35	702
Boiler-scraper	C. A. Rockstroh	339,932	Apr. 13	1198	298	35	220
Boiler stand. Bath-	R. A. Regester	348,690	Sept. 7	220	58	36	1087
Boiler-sweeper	W. T. Levi	343,769	June 15	1162	366	35	1285
Boiler-tube	J. P. Serve	349,060	Sept. 14	722	184	36	1183
Boiler-tube cleaner	F. M. Clark and F. R. Low	336,292	Feb. 16	1751	458	34	763
Boiler-tube cleaner	S. S. Cook	346,727	Aug. 3	349	95	36	529
Boiler-tube cleaner	W. H. Keep	343,998	June 22	1753	452	35	1348
Boiler-tube cleaner	R. A Regester	334,468	Jan. 19	1390	375	34	272
Boiler-tubes. Machine for manufacturing	W. Arnold	352,987	Nov. 23	1745	467 / 468	37	809

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Boiler water-alarm	F. R. Stevenson	353,513	Nov. 30	2509	669	37	960
Boiler water-cleaner	J. W. Hyatt	354,864	Dec. 21	1761	465	37	1343
Boiler water-tube	J. Hartley	335,695	Feb. 9	870	225	34	599
Boilers. Circulating water in	W. Craig	350,722	Oct. 12	880	236	37	167
Boilers. Compound for cleaning	W. S. Baskin	345,206	July 6	556	.....	36	101
Boilers. Fire-arch for	R. Patrick	341,048	May 4	103	30	35	523
Boilers. Fire-box for	J. T. Corbett	340,102	Apr. 20	1434	362	35	268
Boilers. Making lead-lined	G. R. Noble	345,168	July 6	509	130	36	93
Boilers. Manifold for sectional	N. W. Pratt	343,727	June 15	1410	351	35	1275
Boilers. Purifier of the water of steam	E. W. Vanduzen	339,244	Apr. 6	184	48	35	35
Boilers. Purifying water for steam	W. Friede	354,855	Dec. 21	1745	.....	37	1340
Boilers. Raising steam in locomotive	W. H. Cowell	347,420	Aug. 17	1315	351	36	723
Boilers. Sput for	H. W. Shepard	351,660	Oct. 26	2284	585 / 586	37	433
Boilers. Water-feeder for	J. Austin	343,529	June 8	1106	278	35	1215
Boilers. Water-heater for	T. Clifford	347,772	Aug. 24	1836	489	36	828
Boilers. Water-heating apparatus for	T. Welch and T. R. Crooks	338,453	Mar. 23	2132	558	34	1333
Bolt: *See* Chain-bolt. Door-bolt. Expansible bolt. Flour-bolt. King-bolt. Indicator-bolt. Locking-bolt. Sash and door bolt. Spring-bolt. Track-bolt.							
Bolt	H. A. Brown	350,231	Oct. 5	187	54	37	38
Bolt	J. A. Coultaus	347,996	Aug. 24	2161	575	36	887
Bolt	H. A. Wahlert	339,950	Apr. 13	1221	303	35	224
Bolt and nut	F. H. Howes	341,116	May 4	240	72	35	549
Bolt and rivet heading machine	F. Philips	353,584	Nov. 30	2610	696 / 697	37	979
Bolt-blank machine	W. E. Ward	341,970	May 18	1367	365	35	778
Bolt-blank machine	W. E. Ward	341,971	May 18	1369	365 / 366	35	779
Bolt-blanks. Machine for threading and pointing	E. N. Beecher	354,089	Dec. 14	633	173	37	1130
Bolt-cloths. Clasp for attaching	G. T. Smith	339,027	Mar. 30	2958	782	34	1484
Bolt-cutter	H. S. Pullman	351,339	Oct. 19	1751	461	37	333
Bolt-dressing machine	W. E. Ward	353,902	Dec. 7	363	97	37	1073
Bolt for shutters, &c.	H. J. Hunsicker	334,953	Jan. 26	2026	541	34	396
Bolt-heading machine	A. B. Glover	335,280	Feb. 2	273	72, 73	34	489
Bolt-heading machine	C. T. Parry	343,843	June 15	1548	392 / 393	35	1302
Bolt-heading machine	F. Philips	334,464	Jan. 19	1382	373	34	271
Bolt-heading machine	F. Philips	334,465	Jan. 19	1385	374	34	271
Bolt-holder and pipe-wrench. Combined	A. W. Becker	336,985	Mar. 2	135	37	34	950
Bolt-lock	W. H. Babcock	333,718	Jan. 5	310	85	34	58
Bolt-machine	C. Hall and J. Young	340,306	Apr. 20	1738	443	35	323
Bolt-machine	G. J. Murdock	340,518	Apr. 20	2033	522 / 523	35	378
Bolt-machine	G. J. Murdock. (Reissue)	10,762	Sept. 7	551	145 / 146	36	1148
Bolt-machine	A. W. Rose	355,102	Dec. 28	2167	553	37	1419
Bolt-nutting machine	W. Shannon	341,174	May 4	285	81	35	557
Bolts and hooks. Machine for forming eyes for metal	H. V. Hartz	334,433	Jan. 19	1335	361	34	261
Bolts and shafts. Adjustable lock for	C. C. Higham	347,598	Aug. 24	1871	499	36	835
Bolts. Machine for making thimbles for	J. T. Smith	338,567	Mar. 23	2279	598	34	1358
Bolts. Making split	F. A. Smith	340,683	Apr. 27	2268	597	35	425
Bolting-cloth. Device for tightening	G. T. Smith	335,155	Feb. 2	78	21	34	454
Bolting-cloths. Clasp for	G. T. Smith	339,025	Mar. 30	2956	781	34	1484
Bolting-reel	H. P. Cavanaugh	342,283	May 18	1796	476 / 477	35	858
Bolting-reel	B. Kniffler	340,446	Apr. 20	1923	494	35	358
Bolting-reel cloths. Cleaner for	G. S. Burnap	348,630	Mar. 23	2367	623	34	1373
Bolting-reels. Brushing mechanism for	J. W. Crosby	352,228	Nov. 9	741	199	37	602
Bone-black drier	S. M. Lillie	351,929	Nov. 2	290	80, 81	37	511
Bone-black drier	G. M. Newhall and A. W. Colwell	341,497	May 11	728	196	35	647
Bone-black in sugar-refineries. Apparatus for drying	S. M. Lillie	343,666	June 15	1362	327	35	1256
Bone-black kiln	C. H. C. Schmandt	345,324	July 13	731	184	36	138
Bone-black. Process of and apparatus for drying	S. M. Lillie	335,137	Feb. 2	53	15	34	450
Bone-black. Retort for calcining	A. C. Harrison	345,968	July 20	1671	432	36	313
Bone-black revivifier	J. F. Stillman	350,150	Oct. 5	104	30	37	21
Bone-black revivifying kilns. Utilizing the waste heat from	S. M. Lillie	337,411	Mar. 9	717	186 / 187	34	1064
Bone blanks for handles. Machine for milling	A. C. Estabrook	347,699	Aug. 17	1728	461	36	800
Bone, ebony, marble, &c. Making artificial	L. R. Mestaniz	353,697	Dec. 7	58	.....	37	1017
Bone, horn, &c. Device for cutting, carving, and fluting	J. Sweeny	354,876	Dec. 21	1781	470	37	1347
Bone-reducer	F. W. Andreé	348,946	Sept. 14	560	148	36	1156
Book and music holder	A. H. Ward	340,839	Apr. 27	2481	653	35	463
Book and pamphlet trimming machine	C. A. Lieb	334,672	Jan. 19	1666	445	34	322
Book and paper folding machine	A. J. Davison	339,868	Apr. 13	1113	277	35	204
Book-binding	J. H. Johnson	353,562	Nov. 30	2585	690	37	975
Book-binding machine	L. W. Fifield	338,726	Mar. 30	2518	666 / 667	34	1406
Book-case	H. H. and C. W. Olds	345,986	July 20	1699	438	36	318
Book-case. Extension	J. D. Walsh	348,252	Aug. 31	2538	681	36	963
Book-case. Revolving	G. V. Nauerth	353,958	Dec. 7	445	121	37	1088
Book. Check, draft, or receipt	S. W. Paine	352,776	Nov. 16	1450	391	37	745
Book-clasp	J. Mönch	339,801	Apr. 13	1024	253	35	187
Book. Copy	A. Agar	335,103	Feb. 2	4	2	34	441
Book. Copying	L. E. Whiton	354,959	Dec. 28	1903	502	37	1382
Book-cover and removable leaf. Combined	E. W. and J. F. Snow	337,027	Mar. 2	200	53	34	962
Book-cover protector	C. W. Still and J. Watrous	350,508	Oct. 12	576	160	37	112
Book-covers. Mechanism for lettering	C. H. Shrader	354,253	Dec. 14	892	236	37	1176
Book-covers. Paper back for	J. A. Crane	343,438	June 8	987	245	35	1193
Book-covers. Paper back for	J. A. Crane	343,439	June 8	988	246	35	1193
Book-cutting machine	W. F. Ellis	336,304	Feb. 16	1764	462	34	766

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Book-cutting machine	E. T. Phelan	350,318	Oct. 5	290	83	37	59
Book-folding machine	E. T. Hazeltine and F. A. Weld	345,506	July 13	987	250	36	183
Book for binding. Machine for gathering the folded sheets or signatures of a	F. Wood	336,878	Feb. 23	2548	671	34	916
Book-holder	H. Crocker	348,382	Aug. 31	2711	728	36	999
Book-holder	A. C. Hafely	342,006	May 18	1413	377	35	786
Book-holder	L. W. Noyes	335,085	Jan. 26	2217	589	34	430
Book-holder	L. W. Noyes	349,660	Sept. 21	1524	393	36	1348
Book-holder	J. H. Paradis	348,767	Sept. 7	314	84	36	1106
Book-holder	J. W. Ranson and J. L. H. Barr	337,435	Mar. 9	775	197	34	1073
Book-holder	J. M. Stewart and J. A. Robertson	338,200	Mar. 16	1780	465	34	1263
Book-holder	L. M. Snyder	343,085	June 1	439	112	35	1086
Book-holder, &c. Portable	M. J. Holt	346,547	Aug. 3	123	33	36	483
Book. Index	A. L. Baer	343,420	June 8	962	240	35	1189
Book-leaf holder	F. W. Smith	336,495	Feb. 16	2016	528, 529	34	812
Book-leaf holder and support	J. F. Morton	339,202	Apr. 6	124	31	35	25
Book. Manifold copying	J. S. Stettinius	344,061	June 22	1849	475	35	1365
Book. Memorandum	T. G. Cooper	336,393	Feb. 16	1884	493	34	789
Book or holder. Account	A. D. Wilt	341,367	May 4	554	153	35	605
Book or show case	C. H. Bangs	351,354	Oct. 26	1778	467, 468	37	343
Book or the like. Copying	D. W. Glass	335,916	Feb. 9	1180	314	34	659
Book. Pad	J. W. Cummings	342,286	May 18	1807	478	35	859
Book pull and label	G. D. Tolman	342,767	May 25	2519	672	35	997
Book. Railway passenger-tariff and distance guide	S. F. Stevens	348,595	Sept. 7	88	26	36	1063
Book. Railway passenger-tariff and distance guide	S. F. Stevens	348,596	Sept. 7	91	26, 27	36	1063
Book rest and stand. Folding	T. C. Walker and W. E. Crayton	334,313	Jan. 12	1169	313	34	225
Book-rest. Student's	A. Mowat	340,596	Apr. 27	2146	555	35	405
Book-shelf	J. Danner	353,443	Nov. 30	2404	643	37	941
Book-support	H. W. Schroder	346,417	July 27	2302	593	36	440
Book-support and leaf and copy holder	J. F. Morton	352,654	Nov. 16	1294	349	37	714
Book-trimming machine	A. L. Metzger and A. Cooper	346,416	July 27	2295	590	36	438
Book. Writing and drawing	W. H. Lamson	339,196	Apr. 6	110	31	35	22
Books, pamphlets, and other publications. Guard for	J. W. Lovell	334,446	Jan. 19	1348	366	34	264
Books with metallic staples. Machine for stitching	W. J. Brown, Jr.	354,885	Dec. 28	1797	474, 475, 476	37	1362
Boot	D. G. Phagan	348,233	Aug. 31	2513	675	36	958
Boot	M. E. Taber	354,360	Dec. 14	1046	280	37	1205
Boot and shoe burnishing machine	H. Nelson	334,394	Jan. 12	1273	343	34	243
Boot and shoe cleaner	C. Goldthwait	344,733	June 29	2765	716	35	1539
Boot and shoe crimping machine	L. Knetzger	350,065	Sept. 28	2101	544	36	1463
Boot and shoe crimping machine	R. Marshall	348,135	Aug. 24	2350	630, 631	36	923
Boot and shoe crimping machine	T. T. Marshall	346,055	July 20	1792	462	36	334
Boot and shoe heel	J. J. Jones	339,060	Mar. 30	3002	794	34	1491
Boot and shoe heel	R. F. McConnell	348,472	Aug. 31	2839	764	36	1023
Boot and shoe jack	H. T. Morse	336,489	Feb. 16	2010	527	34	811
Boot and shoe nail	A. Eppler, Jr.	334,361	Jan. 12	1237	333	34	237
Boot and shoe nailing machine	H. S. Bacon	355,117	Dec. 28	2126	558, 559	37	1423
Boot-cleaner	P. A. Scovel	342,642	May 25	2338	618	35	963
Boot-drier	S. W. Brewster and L. Sherwood	336,987	Mar. 2	137	37	34	951
Boot. Felt	S. G. Alexander	336,542	Feb. 23	2082	547	34	831
Boot. Felt	S. G. Alexander	345,471	July 13	938	236	36	174
Boot. Felt	D. Beatty	344,613	June 29	2612	677	35	1512
Boot. Felt	W. H. Kimball	343,460	June 8	1027	255	35	1200
Boot. Felt	D. B. Platt	352,350	Nov. 9	902	242	37	633
Boot. Felt	D. F. Messer	343,135	June 1	525	133	35	1101
Boot. Felt	E. T. Stelle	338,201	Mar. 16	1769	465	34	1263
Boot-heels. Rotary cap for	G. N. Thurzó	348,800	Sept. 7	351	95	36	1113
Boot-jack attachment	W. Quinlan	346,682	Aug. 3	290	80	36	517
Boot or shoe	W. B. Arnold	335,555	Feb. 9	656	173	34	565
Boot or shoe	A. Chambers	347,090	Aug. 10	854	226	36	629
Boot or shoe	C. A. Erdman	353,740	Dec. 7	124	35	37	1029
Boot or shoe	J. J. Feeney	334,364	Jan. 12	1241	334	34	238
Boot or shoe	J. J. Gascoine and G. A. Royce	339,760	Apr. 13	974	240	35	178
Boot or shoe	L. C. Kenton	342,752	May 25	2501	666	35	994
Boot or shoe	W. La Banister	354,555	Dec. 21	1317	350	37	1260
Boot or shoe	H. T. Marshall	340,135	Apr. 20	1480	374	35	276
Boot or shoe	W. T. Martin	351,186	Oct. 19	1554	407	37	298
Boot or shoe	W. T. Martin	351,187	Oct. 19	1555	408	37	298
Boot or shoe	F. Moor	342,806	June 1	43	12	35	1014
Boot or shoe	W. Reindl and A. Lotstrom	346,126	July 27	1886	488	36	362
Boot or shoe	J. P. Shea and W. Brown	345,993	July 20	1709	440	36	320
Boot or shoe	J. J. Snyder	351,889	Nov. 2	227	64	37	500
Boot or shoe	W. H. Wetmore	336,775	Feb. 23	2408	633	34	871
Boot or shoe	F. P. Woodbury	343,747	June 15	1436	358	35	1280
Boot or shoe and making the same	W. A. Knipe and G. C. Wadleigh	341,920	May 18	1308	350	35	768
Boot or shoe buffing roll	C. K. Bradford	334,162	Jan. 12	940	254	34	181
Boot or shoe burnishing machine	E. M. Parkhurst	353,756	Dec. 7	142	39	37	1033
Boot or shoe. Button	W. E. Bennett	344,710	June 29	2730	709	35	1534
Boot or shoe creeper	L. C. Hoffmeister	334,381	Jan. 12	1256	339	34	241
Boot or shoe edge trimming machine	W. Manley	336,332	Feb. 16	1797	470, 471	34	772
Boot or shoe fastening device	G. H. Bliss	334,738	Jan. 26	1760	469	34	347
Boot or shoe finishing jack	M. Harriman	353,449	Nov. 30	2416	645	37	943
Boot or shoe form	J. W. Rogers	352,153	Nov. 9	635	168	37	583
Boot or shoe heel	E. S. Hay	348,847	Sept. 7	409	111	36	1123
Boot or shoe heel	J. H. Peters	343,062	June 1	407	104	35	1080
Boot or shoe heel-plate	F. R. Hogeboom and G. O. Woolcocks	333,522	Jan. 5	36	10	34	9
Boot or shoe insole	R. Dick	354,693	Dec. 21	1531	406	37	1299
Boot or shoe jack	E. D. Lee	340,331	Apr. 20	1773	453	35	330
Boot or shoe jack	H. T. Morse	343,964	June 15	1706	437	35	1332

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Boot or shoe jack	A. Wicks	342,155	May 18	1622	434, 435	35	827
Boot or shoe. Laced	G. W. Hayden	341,004	May 4	45	12	35	514
Boot or shoe last	H. W. Mobbs and A. Lewis	336,339	Feb. 16	1810	475	34	775
Boot or shoe lasting machine	F. Chase	337,925	Mar. 16	1402	363, 364	34	1191
Boot or shoe lasting machine	W. C. Cross	343,440	June 8	990	246, 247	35	1193
Boot or shoe nailing machine	H. S. Bacon	340,540	Apr. 27	2068	534	35	392
Boot or shoe nailing machine	F. A. Beal	333,812	Jan. 5	431	117	34	81
Boot or shoe nailing machine	A. Cavalli	340,556	Apr. 27	2090	539	35	395
Boot or shoe nailing machine	H. Dunham	353,544	Nov. 30	2558	682, 683	37	969
Boot or shoe protector	L. C. Rodenberger	346,776	Aug. 3	462	111	36	539
Boot or shoe. Rubber	J. S. Owner	337,190	Mar. 2	413	107, 108	34	1002
Boot or shoe. Rubber	F. M. Shepard	340,374	Apr. 20	1837	471	35	342
Boot or shoe. Rubber	J. L. Thomson	354,496	Dec. 14	1225	328	37	1237
Boot or shoe. Rubber	G. Watkinson	339,953	Apr. 13	1221	304	35	225
Boot or shoe sole	E. S. Harris	337,060	Mar. 2	236	63	34	969
Boot or shoe sole	W. A. Knipe and L. Day	334,668	Jan. 19	1662	444	34	321
Boot or shoe sole	L. E. Moore	343,051	June 1	391	99	35	1077
Boot or shoe sole	F. F. Raymond, 2d	340,358	Apr. 20	1819	466	35	339
Boot or shoe sole	W. W. Reid	354,232	Dec. 14	856	227	37	1170
Boot or shoe soles and uppers. Uniting	E. C. Bennett	336,548	Feb. 23	2002	550	34	832
Boot or shoe soles. Machine for trimming the lips of channeled	E. S. Harris	343,452	June 8	1012	252	35	1197
Boot or shoe soles. Machine for turning up the lip of channeled	E. S. Harris	343,453	June 8	1013	252	35	1198
Boot or shoe stiffener	W. H. Watson	340,177	Apr. 20	1549	391	35	289
Boot or shoe stretcher	J. Donovan	355,006	Dec. 28	1967	518	37	1392
Boot or shoe stretcher	J. G. Haentges and J. P. Fisher	347,485	Aug. 17	1416	377	36	742
Boot or shoe stretcher	W. Jones	352,134	Nov. 9	606	100	37	579
Boot or shoe tree	S. H. Hodges	333,633	Jan. 5	171	47	34	34
Boot or shoe tree	A. D. Tyler, Jr.	348,937	Sept. 7	543	143	36	1146
Boot or shoe tree foot	O. I. Howe	342,295	May 18	1820	464	35	863
Boot or shoe uppers. Manufacture of	H. S. Cushman	341,895	May 11	1189	318	35	738
Boot or shoe vamp	R. G. Salomon	354,349	Dec. 14	1033	275	37	1202
Boot-pattern	G. L. Myers	353,753	Dec. 7	139	38	37	1032
Boot. Quarter	J. H. Fenton	342,790	June 1	23	7	35	1010
Boot. Rubber	S. Oldberg	352,836	Nov. 16	1532	412	37	759
Boot. Rubber	R. Sloan	347,653	Aug. 17	1670	444	36	790
Boot. Rubber	J. E. Tilton	337,892	Mar. 16	1356	352	34	1182
Boot. Rubber	J. L. Tyler, Jr.	335,256	Feb. 2	241	63, 64	34	483
Boot. Rubber	J. L. Tyler, Jr.	352,501	Nov. 9	1084	292	37	669
Boot, shoe, or stocking. Felt	J. Brandy	344,438	June 29	2374	611	35	1467
Boot-tree	J. T. Flynn	340,566	Apr. 27	2107	542	35	398
Boot-tree	A. R. Wellman	347,309	Aug. 10	1158	310	36	686
Boot-tree	E. W. Whitmore	338,575	Mar. 23	2289	600	34	1359
Boots and legs for long boots. Manufacture of tops for	J. A. and A. L. Thierry	342,653	May 25	2350	620	35	965
Boots and other hollow felt articles. Machine for hardening seamless felt	W. P. and N. F. Hyatt	339,554	Apr. 6	654	158	35	117
Boots and shoes. Apparatus for cleaning	T. O. Jones	338,157	Mar. 16	1724	450	34	1251
Boots and shoes. Applying wear-points to rubber	J. L. Thomson	335,323	Feb. 2	330	87	34	501
Boots and shoes. Attaching shank-buttons to	R. Thompson	341,821	May 11	1171	313	35	735
Boots and shoes. Lasting	W. C. Cross	333,606	Jan. 5	144	39	34	29
Boots and shoes. Lasting	W. C. Cross	337,483	Mar. 9	838	212	34	1083
Boots and shoes. Machine for crimping the quarters of	T. Nally	345,915	July 20	1602	412	36	301
Boots and shoes. Machine for stamping soles of	C. S. Fifield	342,192	May 18	1666	444	35	834
Boots and shoes. Machine for stretching and molding the uppers of	E. W. Brown	346,422	July 27	2307	595	36	441
Boots and shoes. Manufacture of	J. J. Gascoine and G. A. Royce	339,286	Apr. 6	248	61, 62	35	46
Boots and shoes. Manufacture of metallic shanks for	C. T. Stetson	339,117	Mar. 30	3082	815	34	1504
Boots and shoes. Milling-tool for heels of	W. P. Carson	347,669	Aug. 17	1717	458	36	798
Boots and shoes. Nail-setting machine for	W. F. Wright	354,878	Dec. 21	1784	470	37	1347
Boots and shoes. Seam-stay for	T. E. Woodley	341,864	May 11	1228	328	35	745
Boots and shoes. Sole-molding machine for	D. Knox	347,429	Aug. 17	1324	353	36	725
Boots and shoes. Tool for repairing	E. Shayler and M. H. Pearson	341,511	May 11	746	201	35	651
Boots. Attaching wear-points to rubber	J. L. Thomson	354,495	Dec. 14	1223	328	37	1237
Boots. Device for pulling on	H. W. Benham	335,415	Feb. 2	460	119	34	523
Boots, &c. Machine for forming bats for felt	D. F. Messer and E. F. Woodbury	344,589	June 29	2577	667, 668	35	1505
Boots. Making felt	H. Hyson	341,659	May 11	902	255	35	692
Boots or shoes. Attaching outer soles to	J. Weaver	342,711	May 25	2420	648	35	982
Boots or shoes. Crimping machine for	S. W. Jamison	341,913	May 18	1302	348	35	766
Boots or shoes. Half-sole for	D. Banks	351,953	Nov. 2	324	90	37	518
Boots or shoes. Heel-protector for	E. Kempshall	354,064	Dec. 7	599	164	37	1115
Boots or shoes. Inner sole for	H. Buckingham	35,849	Nov. 2	177	48	37	491
Boots or shoes. Jack for holding	M. Pisano	346,772	Aug. 3	395	109	36	538
Boots or shoes. Machine for making box-toes and stiffeners for	J. H. Riedell and L. W. Litch	337,082	Mar. 2	263	70, 71	34	975
Boots or shoes. Machine for shaping counter-stiffeners for	J. C. Hearan	348,903	Sept. 7	496	131	36	1139
Boots or shoes. Machine for turning	J. W. D. Fifield	347,233	Aug. 10	1044	279	36	665
Boots or shoes. Machine for uniting soles to uppers of	S. W. Robinson	346,127	July 27	1887	488	36	362
Boots or shoes. Machine for uniting the soles and uppers of	S. W. Robinson	346,130	July 27	1892	489	36	363
Boots or shoes. Making sewed	G. W. Willey	354,289	Dec. 14	952	251	37	1186
Boots or shoes. Manufacture of	H. H. Waugh	352,899	Nov. 16	1616	434	37	776
Boots or shoes. Mold for soles and heels of	D. Banks	353,617	Nov. 30	2670	715	37	990
Boots or shoes. Molding-machine for	G. A. Knox	352,760	Nov. 16	1431	386	37	741
Boots or shoes. Protector or guard for	J. F. Pudor	345,728	July 20	1337	347	36	254
Boots or shoes. Revolving pad for cleaning the soles of	F. P. Buzzell	351,737	Nov. 2	11	3	37	460
Boots or shoes. Rivet attachment for rubber	J. J. Unbehend	345,555	July 13	1082	277	36	200

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Boots or shoes. Sole for turned	L. E. Moore	343,832	June 15	1531	387	35	1299
Boots or shoes. Tack-driving mechanism for lasting	R. Ashe	341,823	May 11	1175	314	35	735
Boots or shoes. Tack-pulling and sole-trimming machine for	J. N. Moulton	350,940	Oct. 19	1178	313	37	228
Boots or shoes. Trimming-cutter for	W. Manley	342,371	May 25	1956	517	35	894
Boots or shoes. Uniting the sole and heel of	E. J. Le Gay	350,540	Oct. 12	614	170	37	119
Boots, shoes, and slippers with felt soles. Felt articles such as	W. P. Hyatt	345,432	July 13	887	221	36	165
Boots, shoes, and stocki gs. Process of and apparatus for making felt	O. E. Wallace	342,943	June 1	243	67	35	1050
Boots, shoes, or stockings. Stretcher for felt	W. A. Young	333,910	Jan. 5	564	153	34	105
Boring and routing bit	T. D. Cook	340,100	Apr. 20	1432	362	35	267
Boring-bar	H. Otto	341,766	May 11	1099	292	35	720
Boring cylinders. Apparatus for	J. D. Watson and J. A. Wilcox	349,963	Sept. 28	1959	506	36	1437
Boring-machine	J. P. Burnham	354,179	Dec. 14	783	209	37	1156
Boring-machine	J. Davis	341,226	May 4	360	100	35	571
Boring-machine	J. Ernst	342,688	May 25	2400	{636 637}	35	975
Boring-machine	G. W. Montgomery	344,976	July 6	249	63, 64	36	45
Boring-machine	J. Swan	341,520	May 11	760	{204 205}	35	654
Boring-machine	J. Swan	354,073	Dec. 7	610	{167 168}	37	1118
Boring machine. Square-hole-	A. E. and J. C. Lake	339,195	Apr. 6	108	30	35	22
Boring-tool	J. Birkenhead	335,206	Feb. 2	171	44	34	471
Boring-tool and holder. Combined	S. P. Graham	339,544	Apr. 6	634	155	35	115
Boring-tools. Level attachment for	J. A. Traut	352,721	Nov. 16	1387	375	37	733
Bosom-board	L. Funk	350,732	Oct. 12	892	239	37	169
Bosom-board	J. F. Gregson	350,972	Oct. 19	1244	331	37	241
Bosom-board	G. E. Palmer	350,551	Oct. 12	631	174	37	122
Bosom-board	J. J. Thornton and P. Hubbard	352,790	Nov. 16	1472	398	37	749
Bosom-form	M. Phillips	334,721	Jan. 19	1736	463	34	335
Bosom pads. Making	T. P. Taylor	352,208	Nov. 9	715	192	37	597
Bottle	J. Canan	345,112	July 6	435	112	36	79
Bottle	H. Codd	345,277	July 13	666	169	36	126
Bottle	G. Sloan	353,600	Nov. 30	2640	705	37	984
Bottle and stopper	J. H. B. Howell	334,865	Jan. 26	1919	511	34	377
Bottle. Alarm-	E. R. Parsil and J. H. Trowbridge	353,807	Dec. 7	217	58	37	1046
Bottle-cabinet	J. E. Linnell	346,166	July 27	1946	502	36	373
Bottle-capping machine	A. Caldwell	340,417	Apr. 20	1885	484	35	351
Bottle-capping machine	J. F. Wittemann	351,551	Oct. 26	2099	545	37	403
Bottle-capsule	W. Lawson	353,751	Dec. 7	136	38	37	1032
Bottle-case	J. Davis	353,021	Nov. 23	1793	482	37	818
Bottle-case. Medicine-	C. A. Tucker	350,450	Oct. 5	479	135	37	92
Bottle-cleaner	R. Robinson	351,798	Nov. 2	95	26, 27	37	476
Bottle-covers. Machine for manufacturing	T. A. Dodge	336,097	Feb. 16	1440	380	34	711
Bottle-fastener	R. P. Pearson	342,382	May 25	1968	519	35	895
Bottle-filling device	R. R. Stone	339,709	Apr. 13	904	222	35	165
Bottle-filling machine	J. Hunt	333,524	Jan. 5	39	11, 12	34	10
Bottle-holder	S. Frost	350,731	Oct. 12	891	239	37	169
Bottle. Ink-	B. C. Wilson	351,553	Oct. 26	2098	545	37	408
Bottle. Ink-	B. C. Wilson	351,670	Oct. 26	2290	593	37	438
Bottle. Medicine-	B. G. Olson	342,837	June 1	88	22	35	1022
Bottle. Mucilage-	E. R. Cahoone	346,088	July 27	1835	474	36	352
Bottle. Mucilage-	E. R. Cahoone	355,000	Dec. 28	1956	516	37	1391
Bottle. Mucilage-	H. C. Nathan	340,673	Apr. 27	2253	593	35	422
Bottle. Mucilage-	G. R. Wight	335,329	Feb. 2	341	89	34	502
Bottle. Nursing-	F. E. Forster	335,347	Feb. 2	367	96	34	507
Bottle. Nursing-	H. C. Haven	351,596	Oct 26	2173	562	37	416
Bottle. Nursing-	E. L. P. Lelièvre	345,518	July 13	1004	255	36	186
Bottle. Nursing-	W. F. Ware	347,018	Aug. 10	742	197	36	610
Bottle-packing box	E. A. Conkling	334,748	Jan. 26	1776	472	34	351
Bottle-rinser	F. Preston	334,805	Jan. 26	1846	492	34	364
Bottle. Show-	G. L. Keeler	343,179	June 8	594	148	35	1123
Bottle-stopper	L. Atwood	351,730	Nov. 2	1	1	37	459
Bottle-stopper	A. Becker	349,268	Sept. 14	1000	255	36	1236
Bottle-stopper	R. Bloeser	334,334	Jan. 12	1200	324	34	231
Bottle-stopper	E. C. Boughton	343,292	June 8	761	189	35	1153
Bottle-stopper	C. W. Buffum	350,801	Oct. 12	995	266	37	188
Bottle-stopper	J. Conner	351,496	Oct. 26	2022	525	37	387
Bottle-stopper	C. de Quillfeldt	344,638	June 29	2647	684	35	1518
Bottle-stopper	F. J. Deverall	350,353	Oct. 5	336	96	37	68
Bottle-stopper	B. K. Dorwart	340,201	Apr. 20	1586	401	35	295
Bottle-stopper	B. K. Dorwart	354,101	Dec. 14	667	179	37	1136
Bottle-stopper	A. E. Fraser	336,848	Feb. 23	2502	659	34	907
Bottle-stopper	L. Graf	348,461	Aug. 31	2825	759	36	1020
Bottle-stopper	C. K. Hamilton, Jr	338,348	Mar. 23	1983	522	34	1306
Bottle-stopper	C. M. Hanson	342,089	May 18	1547	413	35	811
Bottle-stopper	H. Hentschke and J. Brown	351,769	Nov. 2	57	15	37	469
Bottle-stopper	J. W. Johnson and F. B. Thatcher	344,278	June 22	2153	551	35	1420
Bottle-stopper	J. M. Kerr	341,660	May 11	963	255	35	692
Bottle-stopper	C. Korthaus	342,519	May 25	2171	575	35	930
Bottle-stopper	E. L. Lloyd	345,910	July 20	1595	411	36	300
Bottle-stopper	A. Luedemann	337,003	Mar. 2	165	44	34	955
Bottle-stopper	T. G. Maier	355,096	Dec. 28	2090	551	37	1418
Bottle-stopper	F. McIlvenna	345,160	July 6	500	128	36	91
Bottle-stopper	T. C. Merz	345,249	July 6	622	158	36	112
Bottle-stopper	C. L. Morehouse	343,646	June 15	1278	321	35	1252
Bottle-stopper	C. L. Morehouse	343,647	June 15	1279	322	35	1252
Bottle-stopper	E. H. and C. Morgan	350,598	Oct. 12	703	191	37	135
Bottle-stopper	E. H. Slaybaugh and J. M. Akers	353,599	Nov. 30	2639	705	37	984
Bottle-stopper	R. O. Stebbins	349,761	Sept. 28	1690	436	36	1384
Bottle-stopper	W. Stewart	339,592	Apr. 6	729	179	35	128
Bottle-stopper	F. D. Taylor	337,458	Mar. 9	808	201	34	1078
Bottle-stopper	G. L. Waitt	342,057	May 18	1488	398	35	800

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bottle-stopper	F. C. White	337,541	Mar. 9	911	233	34	1096
Bottle-stopper	O. Zwietusch	336,463	Feb. 16	1979	518	34	805
Bottle-stopper fastening	H. P. Brooks	334,100	Jan. 12	845	231	34	164
Bottle-stoppers. Machine for forming wire bails of	J. G. Rehfuss	351,527	Oct. 26	2067	536	37	397
Bottle-stoppers. Machine for forming wire bails for	J. G. Rehfuss	351,653	Oct. 26	2253	583, 584	37	431
Bottle-stopping mechanism	G. A. Gessner	347,031	Aug. 10	759	202	36	613
Bottle-washer	P. A. Bennett	355,054	Dec. 28	2036	535	37	1405
Bottle-washer	G. J. Fritz	337,054	Mar. 2	229	61	34	967
Bottle-washer	G. P. Goulding	335,068	Jan. 26	2193	583	34	425
Bottle-washer	C., Jr., E., and H. Singer	350,643	Oct. 12	774	211	37	148
Bottle-washers. Brush for	G. P. Goulding	344,267	June 22	2136	547	35	1416
Bottle-washing implement	E. J. Leyburn	337,595	Mar. 9	976	250	34	1108
Bottle-washing machine	E. S. Piper	337,615	Mar. 9	997	256, 257	34	1112
Bottle-washing machine	F. J. Snyder	339,338	Apr. 6	321	81	35	61
Bottle-washing machine	F. Stotz and A. Heusch	354,492	Dec. 14	1220	326, 327	37	1236
Bottle-washing machines. Brush-holder for	J. M. Hoyt	337,332	Mar. 2	606	159	34	1038
Bottle-wrapper	C. G. Biedinger	342,818	June 1	57	14	35	1016
Bottle-wrapper	M. A. L. Hine and O. S. Reed	352,188	Nov. 9	692	185	37	593
Bottles. Alarm for poison	M. Fulda	352,051	Nov. 2	463	125	37	546
Bottles. Apparatus for drawing corks from	J. Bloeser	337,921	Mar. 16	1393	362	34	1189
Bottles, &c. Apparatus for rinsing or washing	F. Cuntz	338,587	Mar. 23	2204	603	34	1362
Bottles. Fastening device for	H. D. Thatcher and H. P. Barnhart	340,833	Apr. 27	2471	650	35	462
Bottles. Label-holding device for	T. Snypp	337,713	Mar. 9	1118	288	34	1133
Bottles, &c. Machine for automatically soaking, brushing, and rinsing	W. W. Horner	354,061	Dec. 7	595	162, 163, 164	37	1114
Bottles. Machine for finishing the necks of	J. O. Malley	346,116	July 27	1868	483	36	358
Bottles. Machine for perforating sides of capsules for	C. Cheswright	345,365	July 13	784	198	36	147
Bottles. Machine for wiring	R. L. Howard	351,054	Oct. 19	1374	360, 361	37	264
Bottles. Machines for wiring corks in	F. G. Riley	351,714	Oct. 26	2326	605, 606	37	446
Bottles. Machine for wiring the corked necks of	W. C. Van Vliet	352,168	Nov. 9	664	177, 178	37	588
Bottles. Machinery for securing corks or stoppers in	R. L. Howard	342,015	May 18	1425	380, 381, 382, 383	35	788
Bottles. Punching holes in	D. Rylands	347,742	Aug. 17	1788	476	36	810
Bottles. Stand for holding and sealing	C. S. Reynolds and J. H. Weldon	334,983	Jan. 26	2068	552	34	403
Bottles. Syringe attachment for	A. B. Tutton	340,927	Apr. 27	2594	684	35	484
Bottles, &c. Tool for forming threads, &c., upon	C. De Quillfeldt	333,733	Jan. 5	327	90	34	61
Bottles. Valve-stopper for	A. B. Vanes	338,571	Mar. 23	2283	599	34	1359
Bottles. Wicker case for	A. Boeker	351,486	Oct. 26	2007	521	37	384
Bottles with liquids. Apparatus for filling	R. Steel	337,883	Mar. 16	1342	348	34	1180
Bottling-machine	W. F. Dorflinger	334,357	Jan. 12	1235	332	34	236
Bottling-machine	E. F. Göransson	339,053	Mar. 30	2990	791, 792	34	1489
Bottling-machine	J. K. Nye	339,111	Mar. 30	3075	814	34	1503
Bottling-machine	G. S. Slocum	347,654	Aug. 17	1671	444, 445	36	790
Bottling-machine	E. M. Wood and A. G. Mead	333,708	Jan. 5	293	80, 81, 82	34	55
Bottling-machines. Attachment for	F. B. Thatcher	352,165	Nov. 9	660	175	37	587
Bouquet-holder	M. Flint	337,569	Mar. 9	946	242	34	1102
Bouquet-holder	R. F. Lawrence	349,107	Sept. 14	791	200	36	1195
Bouquet-holder	A. McLane	348,332	Aug. 31	2638	711	36	984
Bow for ladies' wear	M. L. Hiller	352,823	Nov. 16	1513	408	37	756
Bows or neckties. Combined spring fastener and shield for	W. Dewart	342,862	June 1	122	31	35	1029
Box:							
See Advertising-box.							
Axle-box.							
Bait-box.							
Ballot-box.							
Blacking-bo							
Bottle-packing box.							
Butter-box.							
Candy-box.							
Cash-box.							
Change and fare box.							
Cigar-box.							
Cock-box.							
Core-box.							
Draw-box.							
Egg-box.							
Fare-box.							
File-box.							
Fire-alarm signal-box.							
Flower-box.							
Folding box.							
Handkerchief-box.							
Jeweler's box.							
Journal-box.							
Letter-box.							
Lunch-box.							
Match-box.							
Match and cigarette box.							
Miner's combination-box.							
Miter-box.							
Molding-box.							
Musical box.							
Musical cigar show-box.							
Packing-box.							
Paper box.							
Photo-developing box.							
Photographer's signal-box.							
Photographer's wash-box.							
Post-office box.							
Safety collecting-box.							
Scouring-box.							
Show-box.							
Shut-off box.							
Signal or call box.							
Spice and dredging box.							
Squib-box.							
Stop-box.							
Stuffing-box.							
Telegraph-box.							
Tobacco-box.							
Tool-box.							
Toy money-box.							
Treasure-box.							
Wagon-box.							
Work-box.							
Box	R. W. Betts	334,506	Jan. 19	1440	387	34	280

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Box	H. P. Fiske	344,367	June 29	2282	587	35	1450
Box	I. Goldberger	352,746	Nov. 16	1412	381	37	738
Box	S. T. Jenkins and T. J. McGuire	345,510	July 13	994	251	36	184
Box	M. Marx	354,159	Dec. 14	751	202	37	1150
Box-band	W. A. Comstock	353,540	Nov. 30	2550	680	37	968
Box cover. Show-	H. W. Baumann	348,713	Sept. 7	248	66	36	1093
Box-covers. Device for detaching	J. C. Ingersoll	350,369	Oct. 5	357	103	37	72
Box covering and trimming machine	C. E. Clute	335,429	Feb. 2	476	123, 124	34	526
Box-covering machine	G. A. Bisler and F. Schoettle	344,155	June 22	1979	506, 507	35	1388
Box-fastener	C. W. Beehler	338,698	Mar. 30	2474	652	34	1398
Box-fastener	C. W. Beehler	349,077	Sept. 14	743	190	36	1187
Box-fastener	J. E. Briggs	353,014	Nov. 23	1785	480	37	816
Box-fastener	E. Harris	335,812	Feb. 9	1026	271	34	632
Box-fastener	J. J. Monahan	349,514	Sept. 21	1341	348	36	1311
Box-fastener	J. A. Strong	344,875	July 6	114	28	36	21
Box-fastener	J. T. Weihe	339,507	Apr. 6	564	136	35	104
Box-fastener	J. Wolf	345,609	July 13	1152	295	36	213
Box-fastening	G. B. Lehy	335,822	Feb. 9	1038	274	34	633
Box for alimentary and other substances	J. Bentley	335,881	Feb. 9	1125	297	34	649
Box for letters and other articles	M. Bragaldi	349,382	Sept. 21	1163	301	36	1276
Box for receiving and holding papers	E. M. Staples	335,782	Feb. 9	989	261	34	624
Box for washing material for concrete	T. W. Carrico	340,484	Apr. 20	1982	509	35	369
Box-former	M. F. Wilson	341,978	May 18	1380	368, 369	35	780
Box-former	M. F. Wilson	350,961	Oct. 19	1213	322	37	235
Box-forming machine	E. M. Jewett	347,299	Aug. 10	1141	305	36	683
Box-loop	F. A. Neider	336,735	Feb. 23	2353	616	34	880
Box-making machine	M. D. Knowlton	354,866	Dec. 21	1763	466	37	1344
Box-nailing machine	F. W. Edwards	342,788	June 1	19	6	35	1010
Box-nailing machine	T. L. Smith and W. S. Doig	342,230	May 18	1716	456, 457	35	844
Box-nailing machine	T. L. Smith and W. S. Doig	342,268	May 18	1771	469, 470, 471	35	853
Box-nailing machine	J. H. Swift	344,419	June 29	2349	604, 605, 606	35	1463
Box-strap	I. S. Elkins	349,150	Sept. 14	843	215	36	1206
Box-strap	C. S. Hall	349,495	Sept. 21	1318	342	36	1307
Box-strap	R. G. Valentine	342,942	June 1	242	62	35	1059
Boxes. Device for immovably securing	C. Huntley	339,779	Apr. 13	999	246	35	182
Boxes. Machine for manufacturing	A. F. Moree	336,340	Feb. 16	1811	475	34	775
Boxes. Securing covers on	C. and E. H. Morgan	353,801	Dec. 7	209	56	37	1045
Boxes together. Machine for gluing and putting	G. Richardson	350,943	Oct. 19	1181	314, 315	37	229
Boxes. Wire binder for	J. A. Griffiths	345,895	July 20	1576	407	36	295
Brace:							
See Abdominal and spinal brace. Bit-brace. Chair-brace. Heel-brace. Rail-brace. Ratchet bit-brace. Vehicle-spring brace. Wagon-box brace.							
Bracelet	A. v. Briesen	334,844	Jan. 26	1889	503	34	371
Bracelet	T. Granbery	352,917	Nov. 2	1646	442	37	791
Bracelet	G. Lenau	345,310	July 1	710	179	36	134
Bracelet	L. Lenau	349,803	Sept. 2	1749	451	36	1395
Bracelet	S. D. Mason	354,716	Dec. 21	1557	412, 413	37	1304
Bracelet	T. I. Smith	342,396	May 2	1936	524	35	898
Bracelet-clasp	K. Wallinger	354 278	Dec. 14	934	246	37	1182
Bracket:							
See Bird-cage bracket. Easel-shelf bracket. Lamp-bracket. Roofing or staging bracket. Scaffold-bracket. Shade-roller bracket. Shelf-bracket. Shingling-bracket. Sink-bracket. Steam-boiler bracket. Wall-bracket.							
Bracket	L. E. Hastings	354,903	Dec. 28	1824	482	37	1366
Bracket	D. Jacobsen	335,931	Feb. 9	1196	318	34	662
Bracket	A. W. Koch	350,934	Oct. 19	1172	312	37	227
Bracket-clamp for shingling	W. Ervin	337,825	Mar. 16	1269	329	34	1167
Braid roll and case therefor	J. Keleher	354,984	Dec. 28	1935	511	37	1388
Braiding-machine	J. Andrew	337 473	Mar. 9	826	209	34	1081
Brake:							
See Air-brake. Air and steam brake. Automatic brake. Cable brake. Car-brake. Carriage-brake. Derailment-brake. Electrical train-brake. Hose-carriage brake. Locomotive-brake. Locomotive and car brake. Power-brake. Railway-brake. Safety automatic brake. Self-acting brake. Sewing-machine brake. Sled-brake. Train-brake. Tricycle-brake. Vehicle-brake. Wagon-brake.							
Brake	J. Müller	347,501	Aug. 17	1435	381	36	745
Brake	G. W. Platt	342,460	May 25	2077	548	35	915
Brake	A. L. Streeter	345,652	July 13	1232	318	36	228
Brake	H. K. Whitner	338,900	Mar. 30	2771	730	34	1450
Brake-adjuster. Automatic	J. B. Burns	352,444	Nov. 9	1016	274	37	656
Brake and belt-shifter. Combined	R. W. Whitney	346,696	Aug. 9	309	85	36	522
Brake-beams. Adjustable connection for	J. M. Walsh and C. G. Smith	346,333	July 27	2182	560	36	417
Brake-lever	J. Kroupa	349,941	Sept. 28	1926	498	36	1431

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Brake-lever	J. W. McPherson	348,229	Aug. 31	2508	674	36	958
Brake-regulator. Automatic	G. Westinghouse, Jr	345,820	July 20	1468	379 380	36	27 6
Brake-rod handle	J. A. Brill	351,735	Nov. 2	9	2	37	460
Brake-shoe	W. Gill	344,102	June 22	1909	488	35	1376
Brake-shoe	J. Meehan	354,724	Dec. 21	1569	415	37	1306
Brake-shoe	F. H. D. Newhard	348,041	Aug. 24	2220	594	36	699
Brake-shoe	G. H. Poor	346,825	Aug. 3	456	125	36	549
Branding apparatus	A. W. Oppmann and J. Smith	336,343	Feb. 16	1815	476	34	776
Branding implement	E. Bosworth and J. Schmidt	336,286	Feb. 16	1739	455	34	760
Brass rod and tubing	W. T. Mersereau	344,847	July 6	70	18	36	13
Brazing-machine	G. S. Black	353,245	Nov. 23	2115	567	37	880
Brazing. Preparing solder for	C. W. Walther	351,446	Oct. 26	2091	.....	37	402
Brazing tubes. Charging-spoon for	C. W. Walther	351,545	Oct. 26	2090	543	37	402
Bread and vegetable cutter	F. Boës and H. Winter	338,819	Mar. 30	2651	698	34	1429
Bread-cutter	H. V. Hartz	343,311	June 8	782	196	35	1157
Bread-cutter	O. E. Wick	344,298	June 22	2180	559	35	1424
Bread-knife	J. Wagner	343,509	June 8	1086	272	35	1211
Bread-pan	B. F. Ortman	345,316	July 13	719	181 182	36	135
Breakwater	W. S. Bates	346,140	July 27	1914	494	36	367
Breakwater	L. W. Leeds	335,032	Jan. 26	2142	569 570	34	416
Breastpin-catch	S. E. Cheesman	353,401	Nov. 30	2347	626	37	929
Breastpins. Pin-tongue for	L. Dreyfus	347,289	Aug. 10	1126	302	36	680
Breast-ring attachment	J. Thornton	347,533	Aug. 17	1480	392	36	754
Breast-strap coupling	D. L. Shafer	353,470	Nov. 30	2447	653	37	948
Breast-strap hook	W. D. Drake	333,734	Jan. 5	330	90	34	62
Breeching-hook	H. K. Porter	350,392	Oct. 5	383	110	37	77
Bretzels and crackers. Apparatus for treating	D. F. Stauffer	345,186	July 6	533	137	36	97
Bretzels. Machine for forming dough for	W. W. Banks and J. Irwin	342,559	May 25	2218	590	35	941
Breweries. Apparatus for utilizing refuse of	H. W. Lafferty	345,704	July 20	1301	337	36	247
Breweries. Utilizing refuse of	H. W. Lafferty	345,703	July 20	1299	337	36	247
Breweries, &c. Utilizing the waste of	A. Parks, Jr	345,987	July 20	1700	.....	36	318
Brewers' grain, &c. Packing dried	F. W. Wiesebrock	346,003	July 20	1725	444 445	36	322
Brewing and distilling. Process of and apparatus for preparing grain or cereals to be used in	A. Perry, A. W. Gillman, and S. Spencer.	340,677	Apr. 27	2260	595	35	423
Brick	E. L. Ransome	353,501	Nov. 30	2495	.....	37	957
Brick and other burned products of clay. Manufacture of	M. A. Hunt	345,305	July 13	705	.....	36	133
Brick and tile kiln	J. I. Knapp, J. C. McKenzie, and W. Humphrey.	348,916	Sept. 7	515	136	36	1141
Brick and tile. Method of and apparatus for manufacturing	J. C. Anderson	348,445	Aug. 31	2803	753 754	36	1016
Brick. Apparatus for drying	W. L. Gregg	348,838	Sept. 7	398	108	36	1121
Brick-burner	B. Albers	339,963	Apr. 13	1236	308	35	227
Brick. Burning	S. Hamilton, Jr	340,780	Apr. 27	2402	.....	35	449
Brick. Burning	J. D. Hardt	337,672	Mar. 9	1066	275	34	1125
Brick, &c. Composition of matter to be used for preventing discoloration of burned	W. W. Neuer	350,550	Oct. 12	630	.....	37	122
Brick, concrete block, &c	H. C. Cowan	338,490	Mar. 23	2183	571	34	1342
Brick. Drying	H. Dickson	346,362	July 27	2219	569	36	484
Brick-drying kiln	C. D. Page	350,317	Oct. 5	289	82, 83	37	58
Brick-drying structure	J. K. Caldwell	334,107	Jan. 12	852	234	34	165
Brick. Duplex	J. A. McAllister	339,799	Apr. 13	1023	253	35	187
Brick for facing walls	J. C. Anderson	351,612	Oct. 26	2196	567	37	420
Brick for gas-regenerating furnaces	W. H. Smith	346,782	Aug. 3	408	113	36	510
Brick for ventilation	M. M. Smith	347,392	Aug. 17	1282	341	36	717
Brick for window-sills, &c	J. C. Anderson	346,394	July 27	2267	581	36	434
Brick for window-sills, &c	J. C. Anderson	346,701	Aug. 3	315	87	36	523
Brick from clays of different colors. Manufacture of ornamental	J. C. Anderson	348,443	Aug. 31	2799	752	36	1016
Brick from dry material. Machine for making	J. A. Swanson and A. W. Linton	348,702	Sept. 7	235	62	36	1090
Brick-hack. Portable	M. Walker and E. Miner. (Reissue).	10,694	Feb. 23	2565	677	34	920
Brick-hacks. Covering for	H. R. Rose	352,839	Nov. 16	1537	414	37	760
Brick. Iron-coated fire-	J. P. Comins	342,066	May 18	1509	.....	35	804
Brick-kiln	W. Alsip	340,186	Apr. 20	1563	395	35	291
Brick-kiln	G. M. Harris	346,653	Aug. 3	257	71	36	510
Brick-kiln	J. R. Kemp	352,194	Nov. 9	700	187	37	594
Brick-kiln	C. Lanz	336,328	Feb. 16	1792	468	34	771
Brick-kiln	R. B. Morrison	337,696	Mar. 9	1098	283	34	1129
Brick-kiln	O. O. Phillips	342,926	June 1	214	55	35	1044
Brick-kiln	W. Radford	348,413	Aug. 31	2752	739	36	1006
Brick-kiln	G. W. Sharer	347,650	Aug. 17	1668	443	36	789
Brick-kiln	L. Simpson	349,756	Sept. 28	1683	435	36	1382
Brick-kiln	W. H. Wickers	347,907	Aug. 24	2032	537	36	864
Brick-kiln	J. Wilson	347,453	Aug. 17	1371	365	36	732
Brick-kiln furnace. Portable	S. P. Crafts	337,927	Mar. 16	1405	364	34	1192
Brick-machine	J. W. Brown	349,477	Sept. 21	1291	336	36	1301
Brick-machine	J. Creager	354,464	Dec. 14	1180	316	37	1229
Brick-machine	F. Doerfler	337,137	Mar. 2	342	89	34	989
Brick-machine	W. L. Gregg	352,616	Nov. 16	1236	334 335 336	37	704
Brick-machine	W. L. Gregg	354,129	Dec. 14	707	188 189 190	37	1143
Brick-machine	W. L. Gregg	354,187	Dec. 14	799	211 212 213	37	1159
Brick-machine	F. Hartings	341,653	May 11	947	250	35	690
Brick-machine	G. Haut	339,881	Apr. 13	1132	281 282	35	208

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Brick-machine	W. Hilton	349,500	Sept. 21	1323	343, 344	36	1308
Brick-machine	J. Hornbeck	345,304	July 13	704	177, 178	36	133
Brick-machine	C. N. Horton	349,395	Sept. 21	1170	305	36	1279
Brick-machine	J. J. Koch and V. Then	351,780	Nov. 2	69	19, 20	37	472
Brick-machine	H. Krutzsch	345,513	July 13	996	252, 253	36	185
Brick-machine	J. J. Kulage	347,355	Aug. 17	1229	327	36	707
Brick-machine	A. Marlot	341,928	May 18	1317	352	35	770
Brick-machine	H. Martin	346,931	Aug. 10	622	167	36	588
Brick-machine	C. W. Raymond	354,226	Dec. 14	849	225	37	1168
Brick-machine	S. L. Shellenberger	348,425	Aug. 31	2773	745	36	1011
Brick-machine	P. L. Simpson	348,064	Aug. 24	2259	604, 605	36	906
Brick-machine	W. E. Tallcot	347,136	Aug. 10	914	243, 244	36	641
Brick-machine	W. Thaison	353,095	Nov. 23	1907	513	37	839
Brick-machine. Dry-press	H. C. Barker	351,567	Oct. 26	2122	549, 550	37	408
Brick. Machine for making pressed	J. C. Pietz	343,396	June 8	933	233, 234	35	1184
Brick-machine. Hydraulic	F. S. Baldwin	342,061	May 18	1499	400, 401	35	802
Brick-machines. Pressure-regulator for	J. J. Koch	340,049	Apr. 13	1362	341	35	249
Brick. Making	H. Dickson	346,359	July 27	2213	567, 568	36	423
Brick. Making	H. Dickson	346,360	July 27	2215	568	36	424
Brick. Making	H. Dickson	346,361	July 27	2217	568, 569	36	424
Brick-mold	T. W. Corby	352,042	Nov. 2	452	123	37	544
Brick-mold	S. W. Underhill	350,960	Oct. 19	1212	321	37	235
Brick-molding device	S. Wright	339,710	Jan. 5	300	82	34	56
Brick-molds. Machinery for sanding	D. Ralston	334,610	Jan. 19	1580	421	34	306
Brick of irregular form for facing walls	J. C. Anderson	349,471	Sept. 21	1284	334, 335	36	1300
Brick or other kiln	E. Chase	338,036	Mar. 16	1565	406	34	1220
Brick. Ornamental	J. C. Anderson	344,707	June 29	2726	709	35	1533
Brick or tile having roughened, drused, or variegated appearance.	J. C. Anderson	344,706	June 29	2725	708	35	1533
Brick. Preventing discoloration of burnt	W. W. Neuer	340,609	Apr. 27	2162	.....	35	407
Brick-tile, drain-pipes, &c. Manufacture of	H. Dickson	346,358	July 27	2212	567	36	423
Brick, tile, &c. Machine for making	C. J. Barstow	338,018	Mar. 16	1540	400	34	1215
Brick walls, &c. Tools for finishing joints of	J. H. Bright	338,029	Mar. 16	1559	403	34	1218
Bricks, &c. Drying-shed for	O. McCoy	337,180	Mar. 2	402	105	34	1000
Bricks. Composition for the treatment of the surfaces of	A. M. Long	344,390	June 29	2342	.....	35	1455
Bricks. Implement for edging or turning	A. G. Ossman	336,820	Feb. 23	2466	647	34	901
Bricks, &c. Machine for pressing plastic material into	G. Carnell	340,284	Apr. 20	1709	435	35	317
Bricks, &c. Method of and apparatus for making	J. C. Anderson	348,444	Aug. 31	2800	752, 753	36	1016
Bricks of ladle-rods. Joint for	M. Williams and S. W. Vaughen	349,265	Sept. 14	997	254	36	1236
Bricks. Picking up and carrying	A. G. Ossman	336,737	Feb. 23	2456	616	34	880
Bridge	S. H. Godman	336,104	Feb. 16	1449	382	34	713
Bridge	S. H. Godman	349,345	Sept. 21	1088	279	36	1262
Bridge	C. F. T. Kandeler	343,377	June 8	906	227	35	1179
Bridge	C. F. T. Kandeler	348,020	Aug. 24	2192	584	36	893
Bridge	C. F. T. Kandeler	348,467	Aug. 31	2832	761, 762	36	1021
Bridge	H. Krusi	338,755	Mar. 30	2564	677	34	1414
Bridge	D. H. Swartz	346,873	Aug. 3	532	144	36	563
Bridge	J. Tomlinson	349,468	Sept. 21	1279	332, 333	36	1299
Bridge. Draw-	J. G. Johnson	343,322	June 8	809	204	35	1161
Bridge-gate	U. Dodd	336,843	Feb. 23	2497	658	34	907
Bridge-gate	H. Dammeyer	344,817	July 6	18	5	36	5
Bridge-gate	M. Kouriau	345,150	July 6	487	124	36	89
Bridge-gate	E. Petru and J. Zidek	344,855	July 6	80	20, 21	36	15
Bridge-gate	H. J. Rohrbach	347,065	Aug. 10	817	218	36	624
Bridge-gate	J. Starka	342,270	May 18	1778	471	35	855
Bridge-gate	P. Winkler	341,979	May 18	1382	369	35	781
Bridge-gate. Automatic draw-	W. S. Morton	334,084	Jan. 12	817	224	34	160
Bridge-guard	W. C. Newman	348,410	Aug. 31	2748	738	36	1005
Bridge, pier, or similar structure	A. Cottrau	337,666	Mar. 9	1059	272, 273, 274	34	1123
Bridge. Street-	J. O'Donnell	354,652	Dec. 21	1471	390	37	1287
Bridge. Truss-	T. K. Marks	346,118	July 27	1870	483	36	359
Bridge, turn-table, &c. Draw-	T. Cooper	350,528	Oct. 12	599	166	37	116
Bridge-wall or fire-arch support	J. Enright	337,941	Mar. 16	1430	371	34	1196
Bridge-work, &c. Porous earthenware gravel for bedding ties in	C. C. Gilman	345,047	July 6	351	.....	36	64
Bridges and culverts. Fastening for	J. Goodnight	353,355	Nov. 30	2275	607	37	915
Bridges. Construction of	C. F. T. Kandeler	346,591	Aug. 3	175	47	36	494
Bridges. Guard for pivot or swing	W. Deveraux	354,105	Dec. 14	665	179	37	1136
Bridges. Self-acting safety-gate for swing	H. Marcheter	352,251	Nov. 9	769	205	37	607
Bridges. Windlass for ferry	W. L. Wright	345,268	July 6	648	164	36	118
Bridle	J. Bland	346,352	July 27	2204	565	36	421
Bridle	E. E. Hardy	352,688	Nov. 16	1344	363	37	724
Bridle	L. E. Jandrue	343,585	June 15	1200	301	35	1238
Bridle	R. Richardson	339,474	Apr. 6	523	127	35	97
Bridle and bridle-bit	W. H. Sanborn	352,506	Nov. 9	1091	294	37	670
Bridle-bit	O. Austin	349,246	Sept. 14	975	249	36	1231
Bridle-bit	A. Buermann	347,225	Aug. 10	1036	276	36	663

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bridle-bit	E. N. Crane	350,348	Oct. 5	331	94	27	67
Bridle-bit	G. A. Doherty	349,088	Sept. 14	759	194	36	1189
Bridle-bit	J. Douglass	345,955	July 20	1655	427	36	310
Bridle-bit	J. A. Fairbanks	348,834	Sept. 7	393	107	36	1120
Bridle-bit	R. G. Hanford, Jr	337,578	Mar. 9	355	245	34	1004
Bridle-bit	G. M. Hubbard	354,475	Dec. 14	1193	320	37	1231
Bridle-bit	C. Hübner	345,592	July 13	1133	289	36	209
Bridle-bit	N. E. Springsteen	347,209	Aug. 10	1010	263	36	659
Bridle-bit	J. Stanley	346,231	July 27	2032	524	36	390
Bridle-bit	A. C. Tickner	351,067	Oct. 19	1311	344	37	252
Bridle-bit	B. Turton	339,716	Apr. 13	911	224	35	166
Bridle-bit cores. Covering for	J. Stanley	354,263	Dec. 14	912	241	37	1178
Bridle-blind	A. F. Ransom	334,050	Jan. 12	770	211	34	151
Bridle blind and loop. Combined	H. J. Noyes	344,456	June 29	2392	616	35	1470
Bridle-blinder	W. W. Beach	347,862	Aug. 24	1962	520	36	852
Bridle-blinder	W. W. Beach	350,716	Oct. 12	873	234	37	166
Bridle. Harness-	M. R. Good	334,168	Jan. 12	947	256	34	183
Bridle. Harness-	L. H. Hillis	341,480	May 11	710	191	35	644
Bridle-rosette	W. J. Bitter	339,848	Apr. 13	1088	270	35	200
Bridle-winker	E. R. Cahoone	341,550	May 11	809	216	35	663
Bridles. Combined brace for brow-bands and winkers for	C. A. Harmstead	348,207	Aug. 31	2476	665	36	952
Bristle-bunching machine	A. C. Estabrook	351,908	Nov. 2	259	72	37	505
Bristle-bunching machine	A. C. Estabrook	351,909	Nov. 2	264	73	37	505
Broiler. Reversible	C. C. Campbell	347,992	Aug. 24	2157	574	36	886
Bronze or other powders. Apparatus for distributing	J. W. Baldwin	351,483	Oct. 26	2004	521	37	384
Bronzing-machine	A. B. Silverlock	347,652	Aug. 17	1668	444	36	790
Brooch or badge for clubs	R. E. Phillips and E. R. Shipton	350,079	Sept. 28	2122	549	36	1467
Brooder	H. J. Haight	354,549	Dec. 21	1310	348	37	1259
Brooder	E. S. Packard	351,883	Nov. 2	220	62	37	499
Brooder	W. F. Price	343,064	June 1	409	104	35	1081
Brooder	E. S. Renwick	353,968	Dec. 7	464	126	37	1091
Broom	E. D. Gallagher	335,808	Feb. 9	1022	270	34	631
Broom	W. A. Nixon	349,897	Sept. 28	1869	483	36	1420
Broom	M. A. Smith and C. F. Yaeger	355,223	Dec. 28	2286	602	37	1455
Broom	A. Stephen	336,169	Feb. 16	1551	409	34	729
Broom and brush cabinet	J. L. Smith	339,702	Apr. 13	894	220	35	164
Broom and tool holder	E. Smith	343,926	June 15	1649	433	35	1329
Broom attachment	W. E. Nash	345,069	July 6	379	95	36	69
Broom-corn. Compound for softening and dyeing	J. A. Van Winkle	334,140	Jan. 12	895	.....	34	174
Broom-corn-sizing machine	J. S. Lake	348,677	Sept. 7	201	53	36	1083
Broom-corn tabler	W. M. and L. N. Bowman	354,622	Dec. 21	1430	579	37	1280
Broom. Flue-	P. Light and J. Luscher	348,469	Aug. 31	2836	762	36	1022
Broom-handle extension	J. R. Greene and J. W. Egnor	347,270	Aug. 10	1096	293	36	675
Broom-handles. Machine for finishing	H. C. Albee	348,878	Sept. 7	456	121	36	1131
Broom-handles. Manufacture of	H. C. Albee	347,981	Aug. 24	2144	571	36	884
Broom-holder	J. F. Barringer	334,214	Jan. 12	1026	273	34	199
Broom-holder	S. L. Bligh	348,106	Aug. 24	2317	631	36	917
Broom-holder	A. M. Bodley	350,523	Oct. 12	593	164	37	115
Broom-holder	S. C. Dayan	343,302	June 8	773	193	35	1155
Broom-holder	J. J. Hiner	344,314	June 22	2199	565	35	1428
Broom-holder	C. Sandford	344,869	July 6	106	26	36	19
Broom-holder	H. P. Spencer	353,716	Dec. 7	95	25	37	1023
Broom-holder	A. D. Stansbury	337,091	Mar. 9	278	74	34	978
Broom-machine	G. H. Baldwin	343,977	June 22	1725	443	35	1343
Broom-rack	J. B. House	337,767	Mar. 9	1182	308	34	1144
Broom-rack	S. C. Tatum, Jr., and J. Hatfield	333,900	Jan. 5	544	148	34	102
Broom-shield	S. Kellogg	351,777	Nov. 2	66	17	37	471
Broom-support	F. S. Capron	338,248	Mar. 23	1848	486	34	1283
Broom-winding machines. Chuck for	A. J. Sands	341,378	May 4	428	111	35	584
Broom. Wire-bound	M. A. Smith and C. F. Yaeger	355,225	Dec. 28	2288	603	37	1456
Broom-wiring machine	M. A. Smith and C. F. Yaeger	355,224	Dec. 28	2287	602	37	1455
Brooms and brushes. Machinery for making	J. G. Horsey	333,946	Jan. 5	614	167	34	115
Brush	J. Ames, Jr.	349,296	Sept. 21	1029	263	36	1251
Brush	M. App	346,421	July 27	2306	594	36	441
Brush	P. D. Audoye	351,306	Oct. 19	1711	449	37	325
Brush	J. F. Bartlett	335,876	Feb. 9	1110	294	34	647
Brush	J. C. Bonner	350,185	Oct. 5	124	35	37	26
Brush	J. F. Bowditch	334,336	Jan. 12	1203	324	34	232
Brush	E. Hambujer	348,842	Sept. 7	403	110	36	1122
Brush	W. F. Howard	349,640	Sept. 21	1508	391	36	1345
Brush	J. G. Lindly	349,727	Sept. 28	1646	435	36	1375
Brush	H. Rosenthal	349,407	Sept. 21	1195	309	36	1282
Brush	M. Thompson	349,673	Sept. 21	1539	397	36	1351
Brush	J. A. Williams	345,941	July 20	1637	421	36	306
Brush and broom head	A. G. Morey	341,040	May 4	89	25	35	522
Brush and comb. Combined hair	J. Leyburn and H. B. Laughlin	344,664	June 29	2676	695	35	1524
Brush-backs. Device for inserting bristles in	E. Kipper	334,121	Jan. 12	871	239	34	169
Brush. Blacking-	B. G. Fitzhugh	338,504	Mar. 23	2203	578	34	1345
Brush. Bottle-washing	J. Buchheit	335,052	Jan. 26	2170	577	34	421
Brush. Commutator-	L. W. Stockwell	337,885	Mar. 16	1345	349	34	1180
Brush. Commutator-	E. Thomson	345,336	July 13	746	188	36	140
Brush. Commutator-	C. J. Van Depoele	352,074	Nov. 2	497	134	37	552
Brush. Daubing-	D. G. Lawrence	346,662	Aug. 3	269	74	36	513
Brush. Dental-plate	A. C. Estabrook	335,345	Feb. 2	365	95	34	507
Brush. Electrical	J. D. Culp	336,897	Mar. 2	21	6	34	930
Brush. Folding tooth-	R. S. Lakin	345,517	July 13	1003	254	36	186
Brush for bolting-reels	H. P. Cavanaugh	342,284	May 18	1801	{477 / 478}	35	858
Brush for finishing boots and shoes. Rotary	B. F. Quinby	353,038	Nov. 23	1827	492	37	893
Brush. Fountain or hydraulic	T. F. Seery	352,009	Nov. 2	406	110	37	534
Brush. Hair or other	J. Raper, M. Pearson, and F. Gill	354,583	Dec. 21	1359	{360 / 361}	37	1268
Brush handle and holder combined	C. Buck	338,476	Mar. 23	2161	565	34	1338

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Brush-handles. Machine for graving	A. C. Estabrook	347,700	Aug. 17	1730	461 / 462	36	801
Brush holder. Scrubbing	J. T. Gramer	345,893	July 20	1574	406	36	295
Brush knots or tufts of bristles. Manufacture of	R. C. Fellows	342,248	May 18	1740	462	35	848
Brush-making machine	J. M. Pickering	334,086	Jan. 12	822	225	34	111
Brush. Paint	A. Barber	348,508	Aug. 31	2893	778	36	1032
Brush. Reservoir blacking	J. T. Gaige	354,545	Dec. 21	1305	347	37	1258
Brush. Revolving tooth	F. W. Tornberg	347,900	Aug. 24	2021	535	36	862
Brush. Rotary	R. J. Curtin	336,842	Feb. 23	2496	658	34	906
Brush. Rotary	T. J. McConnaughay	345,854	July 20	1517	393	36	284
Brush. Rotary wire	T. C. Root	339,585	Apr. 6	732	177	35	126
Brush. Shaving	G. D. Pushee	350,502	Oct. 12	569	157	37	111
Brush shield and binder	W. L. Barnes	355,120	Dec. 28	2132	560	37	1425
Brush. Steel-wire	C. E. Doty	338,719	Mar. 30	2507	664	34	1404
Brush. Tooth	J. Heath	350,306	Oct. 5	273	78	37	56
Brush. Tooth	R. S. Lakin	334,729	Jan. 19	1743	465	34	337
Brushes and combs. Device for cleaning	J. O. Brookbank	339,137	Apr. 6	26	8	35	7
Brushes, &c. Cementing tufts of fibrous material in bored stock for the manufacture of	R. C. Fellows	342,247	May 18	1739	462	35	848
Brushes. Dauber for blacking	M. M. Dessau	351,098	Oct. 19	1431	375	37	274
Brushes from celluloid and other plastic material. Manufacture of backs for	H. E. Miller	345,983	July 20	1695	437	36	317
Brushes. Holder for commutator	C. D. Jenney	342,441	May 25	2051	541	35	910
Brushes. Machine for boring	G. Crowell and F. W. Gesswein	342,285	May 18	1803	478	35	859
Brushes. Machine for making	J. Earnshaw	344,361	June 29	2271	584	35	1448
Brushes. Machine for making	L. Young	340,184	Apr. 20	1561	394	35	291
Brushes. Machine for making flat paint and white-wash	S. A. Verbryck	341,189	May 4	301	85, 86	35	560
Brushes. Manufacture of	P. J. Kane	347,048	Aug. 10	783	208	36	618
Brushes, &c. Rack and holder for tooth	N. W. Griswold	338,402	Mar. 23	2065	541	34	1320
Brushes while being filed. Clamp for holding dynamo-electric	M. S. Eldon	337,824	Mar. 16	1268	329	34	1166
Brushing-machine	V. S. Bekofsky	335,793	Feb. 9	1002	265	34	627
Brushing machine. Shoe	L. T. Jones	347,715	Aug. 17	1754	467	36	805
Bucket bottom. Well	C. H. Foster	348,960	Sept. 14	575	153	36	1159
Bucket. Conveyer	H. W. Avery	352,077	Nov. 2	502	135	37	553
Bucket. Dinner	E. E. Lederle	353,147	Nov. 23	1986	531	37	855
Bucket fixture. Well	S. T. Atkin and O. Steele	349,626	Sept. 21	1486	385	36	1340
Bucket. Milk	G. C. Bover	354,384	Dec. 14	1069	286	37	1209
Bucket. Paint and brush	A. Dormitzer	342,431	May 25	2041	538	35	908
Bucket. Well	C. J. Fellrath	348,118	Aug. 24	2331	625	36	920
Buckets. Strap-ear for well	W. H. Parrish	348,046	Aug. 24	2225	595	36	900
Buckle	W. W. Bell	354,528	Dec. 21	1279	341	37	1253
Buckle	S. Bretzfield	335,794	Feb. 9	1003	266	34	627
Buckle	J. Burgess	348,186	Aug. 31	2445	656 / 657	36	946
Buckle	C. J. Cooper	334,750	Jan. 26	1778	473	34	351
Buckle	J. E. Davenny	333,930	Jan. 5	595	163	34	112
Buckle	J. E. Gable and F. M. Williams	347,340	Aug. 17	1207	322	36	704
Buckle	T. Haswell	344,375	June 29	2291	590	35	1452
Buckle	L. Hewitt	342,092	May 18	1552	415	35	813
Buckle	W. V. Kay	347,114	Aug. 10	882	233	36	635
Buckle	N. J. Kjellstrom	342,110	May 18	1574	420	35	816
Buckle	T. Mitchell	342,120	May 18	1584	422	35	819
Buckle	I. H. Osborn	347,955	Aug. 24	2113	563	36	878
Buckle	T. O. Potter	337,517	Mar. 9	882	224	34	1091
Buckle	T. O. Potter	353,810	Dec. 7	223	60	37	1048
Buckle	F. E. Randall	342,537	May 25	2193	581	35	936
Buckle	S. Scheuer	339,699	Apr. 13	892	219	35	163
Buckle	S. J. Scovil	348,351	Aug. 31	2661	717	36	989
Buckle	S. J. Scovil	348,352	Aug. 31	2662	717	36	989
Buckle	A. Shenfield	343,735	June 15	1420	354	35	1277
Buckle	A. U. Smith	345,082	July 6	396	100	36	72
Buckle	W. E. Smith	337,452	Mar. 9	799	203	34	1077
Buckle	F. B. Spooner	335,252	Feb. 2	234	62	34	482
Buckle	J. Spruce	348,796	Sept. 7	345	93	36	1111
Buckle	J. Spruce	353,513	Nov. 30	2509	669	37	960
Buckle	S. N. Stevens	352,277	Nov. 9	807	216	37	614
Buckle	W. D. Stratton	347,015	Aug. 10	739	196	36	609
Buckle	M. Vandercook	342,984	June 1	288	75	35	1059
Buckle	W. H. Wales	336,502	Feb. 16	2022	531	34	814
Buckle	B. S. Wash	335,490	Feb. 2	559	147	34	541
Buckle	C. W. Wheeler	340,469	Apr. 20	1959	503	35	364
Buckle	J. F. Winter	338,327	Mar. 23	1953	514	34	1301
Buckle	W. W. Youmans	350,226	Oct. 5	183	53	37	38
Buckle	M. E. Zeller	338,240	Mar. 16	1832	478	34	1273
Buckle	M. E. Zeller	343,097	June 1	461	117	35	1090
Buckle and button-hole clamp. Suspender	W. S. Carter and F. C. Churchill	339,374	Apr. 6	372	96	35	69
Buckle and chain-supporter. Back-band	R. W. Stevens	341,516	May 11	756	203	35	653
Buckle and neck-wear-band retainer	J. A. Eshleman	342,740	May 25	2488	661	35	991
Buckle and strap-loop. Combined	R. W. Jones	334,870	Jan. 26	1923	512	34	377
Buckle and trace-loop. Combined pad	A. Hartz	338,406	Mar. 23	2070	542	34	1321
Buckle and trace or breeching loop. Combined	W. V. Kay	347,115	Aug. 10	883	234	36	635
Buckle attachment for straps	W. Smith	341,958	May 18	1354	362	35	776
Buckle. Back-band	L. Hewitt	354,417	Dec. 14	1110	298	37	1217
Buckle. Belt	S. Bretzfield	341,127	May 4	215	64	35	545
Buckle-cover	J. P. Scollay	355,107	Dec. 28	2112	555	37	1420
Buckle for plow-harness. Back-band	F. E. Jenkins	345,306	July 13	706	178	36	133
Buckle for saddles	S. T. Butler	343,605	June 1	316	81	35	1064
Buckle for supporters	C. W. Timmons	339,031	Mar. 30	2964	784	34	1485
Buckle. Harness	F. Benoit	348,310	Aug. 31	2617	705	36	989
Buckle. Harness	G. P. Cramer and F. B. Langworthy	339,528	Apr. 6	596	144	35	110
Buckle. Harness	J. W. Funk	346,036	July 20	1774	456	36	330
Buckle. Harness	E. D. Hickman	345,381	July 13	805	203	36	150

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Buckle. Harness	J. T. Sutton and G. M. Terry	352,959	Nov. 23	1704	457	37	806
Buckle. Harness	S. U. Tarney	339,234	Apr. 6	171	44	35	33
Buckle or clasp	E. S. Smith	337,708	Mar. 9	1113	287	34	1132
Buckle. Shoe	E. H. Alcott	353,912	Dec. 7	380	101	37	1076
Buckle. Suspender	C. B. Bird	340,088	Apr. 20	1418	359	35	264
Buckle. Suspender	C. B. Bird	340,089	Apr. 20	1419	359	35	265
Buckle. Suspender	S. A. Chapman and D. F. Dalton	335,056	Jan. 26	2175	578	34	422
Buckle. Suspender	J. C. Hyde	346,851	Aug. 3	496	137	36	557
Buckle. Suspender	T. O. Potter	353,812	Dec. 7	225	60, 61	37	1048
Buckle. Suspender	C. C. Shelby	342,047	May 18	1474	395	35	798
Buckle. Suspender	J. Spruce	339,948	Apr. 13	1219	302	35	924
Buckle. Suspender	J. Spruce	342,145	May 18	1612	431	35	824
Buckle. Suspender	C. Voorhis	347,143	Aug. 10	926	247	36	643
Buckle. Suspender or other	C. R. Harris	345,967	July 20	1669	432	36	313
Buckle. Trace	J. Fischer	343,118	June 1	495	125, 126	35	1095
Buckle. Trace	H. T. Simons	350,778	Oct. 12	951	255	37	180
Buckle. Waist-belt	L. and H. A. Sanders	334,901	Jan. 26	1962	522	34	385
Buckles. Locking device for	S. L. Waldman	352,103	Nov. 2	543	144	37	560
Buckles. Machine for making	J. E. Kelsey	339,899	Apr. 13	1152	286	35	212
Buckles. Machine for tanging	H. C. Bilton	344,894	July 6	140	35, 36	36	25
Buckles. Snap-hook for suspender	C. Voorhis	345,819	July 20	1467	379	36	276
Budding trees	H. Gulick	346,905	Aug. 10	587	157	36	581
Buffer	R. P. Garsed	341,568	May 11	834	222	35	668
Buffer and polisher	J. B. Laughton	334,671	Jan. 19	1665	445	34	322
Buffer for the prevention of collisions on land and water	W. F. Stanley	345,552	July 13	1079	276	36	200
Buffing-wheel gage	R. Binno	340,086	Apr. 20	1415	358	35	264
Buggy-bed	J. C. Figg	349,577	Sept. 21	1426	368	36	1328
Buggy-gear	S. B. Swan	349,125	Sept. 14	813	206	36	1199
Buggy-iron	D. Topliff	349,128	Sept. 14	816	207	36	1200
Buggy-spring	P. F. Hellerstedt	338,071	Mar. 16	1603	417	34	1227
Buggy-top	C. A. Behlen	353,195	Nov. 23	2056	549	37	869
Buggy-top	H. Hagge and J. W. Sankey	342,746	May 25	2495	664	35	992
Buggy-top	J. Metcalfe	340,809	Apr. 27	2442	642	35	457
Buggy-top	T. J. Sullivan and H. A. Eagle	345,332	July 13	738	187	36	139
Buggy-top joint	A. Walter	345,398	July 13	833	209	36	155
Buggy-top support	J. J. Finney	334,856	Jan. 26	1909	508	34	375
Buggy-tops. Folding section for	G. W. Crozier	350,530	Oct. 12	601	166	37	116
Building and system for laying electric conductors therein	C. N. Fay	334,763	Jan. 26	1793	477	34	354
Building-block	H. A. Daniels	346,734	Aug. 3	357	96	36	530
Building-block	C. Popp and L. Melchior	344,594	June 29	2587	670	35	1507
Building-block. Metal-faced	J. H. Mitchell	337,693	Mar. 9	1093	282	34	1129
Building-bracket	A. D. Hart	334,772	Jan. 26	1803	480	34	356
Building. Fire-proof	R. Guastavino	336,047	Feb. 9	1353	358	34	689
Building. Framed	J. W. Frey	353,549	Nov. 30	2567	685	37	971
Building material. Form of	J. S. Armstrong	334,401	Jan. 12	1287	346, 347	34	246
Building material. Producing	C. C. Gilman	353,630	Nov. 30	2688	.....	37	993
Building purposes. Composition for	J. Wurzner	339,726	Apr. 13	931	.....	35	170
Building-section. Separable	H. Mulhollen	344,747	June 29	2787	721	35	1543
Building-wall	W. P. Andrews	336,465	Feb. 16	1980	519	34	806
Building. Whale-shaped museum	A. Ward	339,828	Apr. 13	1058	262, 263	35	193
Buildings automatically. Appliance for closing openings in	C. A. Tucker	350,451	Oct. 5	481	135	37	92
Buildings. Combined land-anchor and lightning-conductor for	G. Stites	351,813	Nov. 2	117	32	37	480
Buildings. Construction of	S. C. Burris	346,638	Aug. 3	242	66	36	507
Buildings. Construction of	T. De Lemos and A. W. Cordes	334,694	Jan. 19	1698	453	34	327
Buildings. Construction of fire-proof	R. Guastavino	336,048	Feb. 9	1353	358	34	689
Buildings. Construction of wooden	C. C. Gilman	338,509	Mar. 23	2209	580	34	1346
Buildings. Gutter for	J. Gray	345,894	July 20	1575	406	36	295
Buildings. Instrument for plumbing the corners of	W. W. Brown	354,592	Dec. 21	1381	366	37	1271
Buildings. Machine for making ridges and valleys for	L. D. Cortright	343,700	June 15	1359	339	35	1266
Buildings. Outer wall of	C. C. Gilman	338,514	Mar. 23	2214	581	34	1347
Bull-ringer	T. Butterworth	339,526	Apr. 6	594	144	35	109
Bullet	E. Rubin	338,191	Mar. 16	1773	462	34	1261
Bullet-mold	A. Jewett	354,422	Dec. 14	1117	300	37	1218
Bullets. Producing and swaging	D. S. Trimmer	340,171	Apr. 20	1535	388	35	286
Bundle-carrier	M. J. Bogert	353,532	Nov. 30	2541	677	37	966
Bundle-carrier	S. Miller	336,251	Feb. 16	1686	440	34	752
Bundle-carrier	A. J. Underhill, 2d	333,796	Jan. 5	412	111	34	78
Bung	G. E. Collins and E. H. Weatherhead	342,184	May 18	1657	442, 443	35	832
Bung	O. W. Eisenhart	343,574	June 15	1187	298	35	1236
Bung	M. G. Gillette	354,859	Dec. 21	1754	464	37	1342
Bung	C. Ives	347,046	Aug. 10	781	208	36	617
Bung	J. Kirby	337,961	Mar. 16	1456	377	34	1201
Bung	W. Taylor	336,766	Feb. 23	2393	627	34	888
Bung	F. Threm	350,402	Oct. 5	392	113	37	79
Bung and faucet-plug. Vent	C. G. Dodge, Jr.	334,520	Jan. 19	1458	391	34	284
Bung. Barrel	H. Roemhildt	337,084	Mar. 2	267	71	34	976
Bung-bush-molding machine	A. G. Anderson	341,369	May 4	558	154	35	605
Bung-bush wrench	A. G. Anderson	349,556	Sept. 21	1397	362	36	1322
Bung-faucet	J. D. Moran	346,558	Aug. 3	134	37	36	486
Bung. Fermenting	T. S. Glaister	353,854	Dec. 7	286	76	37	1059
Bung for beer kegs, casks, &c	W. W. Jackson	337,162	Mar. 2	370	97	34	994
Bung for cans	G. H. Perkins	355,025	Dec. 28	1989	523	37	1397
Bung-lifter	W. Nahrung	336,342	Feb. 16	1814	476	34	776
Bung or plug	L. Butler	353,202	Nov. 23	2066	552	37	871
Bung-pan	C. E. Laverty	336,486	Feb. 16	2007	526	34	811

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bung-vent	F. M. La Boiteaux	347,723	Aug. 17	1765	471	36	806
Bung. Vent-	J. Meyer	349,354	Sept. 21	1111	287	36	1266
Bung. Venting-	F. R. and G. W. Tibbitts	337,211	Mar. 2	437	114	34	1007
Bungs in cans. Implement for inserting	G. H. Perkins and G. E. Transom	355,204	Dec. 28	2252	594	37	1449
Bungs. Machine for making	J. Petz	335,955	Feb. 9	1224	326	34	667
Bungs. Machine for making compressed	E. D. Mackintosh	336,652	Feb. 23	2242	585	34	857
Buoy. Automatic signal-	E. E. Mann	341,671	May 11	977	259	35	696
Buoy. Automatic signal-	H. McLaughlin	337,971	Mar. 16	1473	382	34	1203
Buoy or beacon	J. M. Foster	355,157	Dec. 28	2182	575 / 576	37	1434
Buoys. Adjustable reed for signal-	E. E. Mann	341,670	May 11	976	258	35	696
Bureau	S. J. Bryant	344,243	June 22	2102	537	35	1410
Bureau	T. J. Palmer	344,132	June 22	1950	498	35	1383
Burglar-alarm	H. B. Bray	347,086	Aug. 10	848	225	36	629
Burglar-alarm	S. E. Carr	339,854	Apr. 13	1096	273	35	201
Burglar-alarm	E. Chol and D. Monnier	342,577	May 25	2241	595	35	945
Burglar-alarm	J. E. Church	338,388	Mar. 23	2044	536	34	1316
Burglar-alarm	W. B. Clarke	350,118	Oct. 5	28	8	37	8
Burglar-alarm	H. M. Cooper and L. J. Kohl	347,688	Aug. 17	1716	458	36	798
Burglar-alarm	L. E. Cosby	344,630	June 29	2639	682	35	1517
Burglar-alarm	F. Cross	341,460	May 11	688	185	35	640
Burglar-alarm	C. H. Dowden	352,861	Nov. 16	1562	421	37	765
Burglar-alarm	W. Eckersall	334,761	Jan. 26	1791	476	34	353
Burglar-alarm	H. Ferris	355,260	Dec. 28	2335	614	37	1465
Burglar-alarm	J. W. Hoffman	351,772	Nov. 2	61	16	37	470
Burglar-alarm	A. and A. Iske	348,675	Sept. 7	199	52, 53	36	1083
Burglar-alarm	S. D. Lauffer, C. F. Bilhimer, and W. Williams.	353,314	Nov. 30	2219	594	37	905
Burglar-alarm	G. W. Nelson	334,888	Jan. 26	1943	517	34	381
Burglar-alarm	A. L. Sabin	337,995	Mar. 16	1513	392	34	1210
Burglar-alarm	H. D. Saul	348,781	Sept. 7	329	88	36	1109
Burglar-alarm	G. Schmidt	344,871	July 6	108	27	36	20
Burglar-alarm	A. W. Thomas and G. W. Way	336,449	Feb. 16	1960	513 / 514	34	802
Burglar-alarm	J. Tomney	343,868	June 15	1580	402	35	1308
Burglar-alarm	J. Tomney	343,869	June 15	1581	402	35	1308
Burglar-alarm	A. C. Tonner	338,319	Mar. 23	1942	511	34	1299
Burglar-alarm	J. N. Yelton	339,962	Apr. 13	1235	307	35	226
Burglar-alarm and door-fastener. Combined	W. Sprague	347,974	Aug. 24	2136	569	36	883
Burglar-alarm. Electric	S. T. Dickens	344,358	June 29	2268	582 / 583	35	1447
Burglar-alarm for window-sashes	S. C. Whitney	345,350	July 13	765	.....	36	144
Burglar-alarm system	P. K. Stern	351,408	Oct. 26	1889	493	37	362
Burglar-alarm. Window	J. E. Hunt	346,105	July 27	1856	479	36	356
Burglar-alarms. Window-spring for electric	T. H. Parker and J. Geary	353,269	Nov. 23	2154	576	37	887
Burglars. Safety device for entrances against	H. H. Denick	343,894	June 15	1612	410	35	1315
Burial-casket	W. C. Armstrong	335,672	Feb. 9	818	218	34	594
Burial-casket	N. Rappleyea and W. A. Sparks	347,723	Aug. 17	1783	475	36	810
Burial-caskets, furniture, &c. Plastic compound to be used in the manufacture of	T. Law	336,736	Feb. 23	2344	.....	34	878
Burner:							
See Bagasse-burner. Gas-regulating burner.							
Brick-burner. Hydrocarbon-burner.							
Candle-burner. Laboratory-burner.							
Electric gas-burner. Lamp-burner.							
Fire-guard burner. Oil-burner.							
Gas-burner. Straw-burner.							
Gas or vapor burner. Vapor-burner.							
Burner and lamp for mineral oils or their equivalents	G. W. Lyth	346,856	Aug. 3	505	139	36	559
Burning hay. Double-walled magazine for	J. H. Coon	346,985	Aug. 10	688	183	36	600
Burning wet vegetable, animal, or mineral matter. Process of and furnaces for	L. P. Rider	352,662	Nov. 16	1306	352	37	717
Burnishing and trimming machine	A. B. Fowler	352,864	Nov. 16	1566	423 / 424	37	767
Burnishing hollow articles. Machine for	W. E. Hawkins	343,766	June 15	1457	364	35	1284
Burnishing-machine	C. J. Addy	339,511	Apr. 6	575	138	35	106
Burnishing-machine	W. G. Anthony	335,671	Feb. 9	817	218	34	594
Burnishing-machine	H. Crary	342,783	June 1	13	5	35	1009
Burnishing-machine	J. H. Hazen	343,710	June 15	1389	346	35	1271
Burnishing-machine	H. J. House	353,633	Nov. 30	2693	720	37	993
Burnishing-machine	W. O. Way	341,624	May 11	765	206	35	655
Burnishing-tool holder	G. A. Fullerton	335,185	Feb. 2	140	36	34	466
Bush-molding machine. Bung-	A. G. Anderson	335,331	Feb. 2	343	89	34	503
Bustle	A. M. Belden	334,332	Jan. 12	1195	321	34	230
Bustle	A. H. Brinkmann	344,159	June 22	1987	508	35	1389
Bustle	W. Brown	350,111	Oct. 5	21	6	37	7
Bustle	F. B. Cady	354,682	Dec. 21	1516	402	37	1296
Bustle	C. C. Carpenter	334,638	Jan. 19	1622	432	34	314
Bustle	H. F. Eaton	340,706	Apr. 27	2302	606	35	430
Bustle	F. Fant	346,436	July 27	2331	600	36	444
Bustle	J. J. Hoppes	340,317	Apr. 20	1755	447	35	326
Bustle	R. Kelso	334,707	Jan. 19	1716	457	34	331
Bustle	J. A. Miner and W. H. McLaughlin.	341,427	May 4	631	172	35	619
Bustle	E. T. Phillips	353,881	Dec. 7	327	85	37	1067
Bustle	B. S. Reed	344,860	July 6	92	24	36	17
Bustle	A. W. Rice and P. Landaker	352,427	Nov. 9	995	268	37	652
Bustle	K. F. Rice	335,625	Feb. 9	758	201	34	583
Bustle	W. F. Russell	336,870	Feb. 23	2527	666	34	912
Bustle	A. Stern	337,849	Feb. 9	1077	284	34	641
Bustle	D. Wertz	341,082	May 4	145	43, 44	35	532
Bustle. Extension-	P. A. O'Connor	343,723	June 15	1406	350	35	1274
Bustle or bustle-skirt	M. Rosenstock	345,863	July 20	1528	396	36	286
Bustles. Machinery for forming wire	H. F. Eaton	353,928	Dec. 7	397	105	37	1080
Butter and other materials. Treatment of rancid	C. Marchand	338,538	Mar. 23	2240	589	34	1352

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Butter. Apparatus for testing	L. Fagersten	342,865	June 1	126	32	35	1029
Butter-box	J. N. Hayes	354,415	Dec. 14	1108	298	37	1216
Butter-carrier	S. A. Currier	343,301	June 8	772	193	35	1155
Butter, lard, &c. Cutter for	R. Weller	353,614	Nov. 30	2657	711	37	988
Butter. Machine for printing or molding	P. L. Kimball	354,985	Dec. 28	1937	512	37	1388
Butter. Making	L. Guinnip	334,430	Jan. 19	1332	.....	34	261
Butter. Making	W. A. Murray	335,084	Jan. 26	2216	.....	34	430
Butter mold and stamp	H. I. Carver	351,042	Oct. 19	1357	356 357	37	260
Butter-molding machine	A. H. Bingham	339,364	Apr. 6	361	88	35	67
Butter-package	G. W. Bradley	355,252	Dec. 28	2327	612	37	1463
Butter-printing machine	P. J. Reid and J. H. Dunbar	349,121	Sept. 14	806	205	36	1198
Butter-shipper	H. Haak	348,557	Sept. 7	20	6	36	1052
Butter. Testing factitious	L. Fagersten	344,730	June 29	2761	.....	35	1538
Butter-worker	E. W. Crouch	354,504	Dec. 14	1239	332	37	1239
Butter-worker	W. F. and S. H. Waters	349,326	Sept. 21	1062	273	36	1257
Butter worker and mold	D. B. Woodward	343,684	June 15	1336	334	35	1262
Button	F. P. Barney	345,824	July 20	1473	381	36	277
Button	F. S. Beck and J. J. Holland	352,291	Nov. 9	825	221	37	617
Button	F. E. Child	348,658	Sept. 7	174	47	36	1078
Button	T. W. G. Cook	350,042	Sept. 28	2060	532	36	1456
Button	G. Felsenthal	338,055	Mar. 16	1585	413	34	1223
Button	F. A. Fox	346,649	Aug. 3	254	69	36	510
Button	B. S. Freeman, Jr.	335,803	Feb. 9	1018	269	34	630
Button	S. S. Gordon	349,038	Sept. 14	687	177	36	1177
Button	E. E. Hanf	340,575	Apr. 27	2115	545	35	400
Button	H. R. Heath	338,409	Mar. 23	2073	543	34	1322
Button	R. Hörmann	342,514	May 25	2166	573	35	929
Button	J. S. Hovey	338,269	Mar. 23	1873	492	34	1287
Button	J. H. Huff	341,418	May 4	623	170	35	618
Button	J. C. W. Jefferys	335,226	Feb. 2	203	53	34	476
Button	R. J. Kyle	346,112	July 27	1864	481	36	357
Button	R. H. Lewis	344,743	June 29	2781	720	35	1542
Button	F. I. Myers	343,597	June 15	1213	304	35	1241
Button	A. Nelson	337,607	Mar. 9	968	253	34	1111
Button	N. C. Newell	347,633	Aug. 17	1644	436	36	785
Button	N. F. Palmer	336,061	Feb. 9	1371	362	34	692
Button	N. F. Palmer	336,062	Feb. 9	1372	362	34	692
Button	N. F. Palmer	336,063	Feb. 9	1372	363	34	693
Button	N. F. Palmer	336,064	Feb. 9	1373	363	34	693
Button	N. F. Palmer	343,277	June 8	734	183	35	1148
Button	C. A. Pfenning	351,792	Nov. 2	89	25	37	475
Button	I. G. Platt	334,191	Jan. 12	983	264	34	189
Button	L. Popper	352,886	Nov. 16	1602	432	37	774
Button	P. A. Raymond	349,453	Sept. 21	1259	326	36	1294
Button	J. T. Rich	342,266	May 18	1768	469	35	853
Button	H. B. Robinson	355,029	Dec. 28	1998	526	37	1398
Button	J. R. Rowlands	351,341	Oct. 19	1753	461	37	333
Button	C. C. Shelby	346,956	Aug. 10	653	174	36	594
Button	M. D. Shipman	341,952	May 18	1348	360	35	775
Button	M. D. Shipman	350,019	Sept. 28	2038	526	36	1451
Button	M. D. Shipman	350,020	Sept. 28	2039	526	36	1451
Button	M. D. Shipman	350,776	Oct. 12	948	255	37	180
Button	M. D. Shipman	352,270	Nov. 9	800	214	37	612
Button	M. D. Shipman	352,363	Nov. 9	915	245	37	635
Button	O. T. Smith	345,814	July 20	1461	378	36	275
Button	O. T. Smith	345,866	July 20	1532	396	36	287
Button	S. J. Swayze	348,934	Sept. 7	540	142	36	1146
Button	G. W. Toms	333,794	Jan. 5	409	111	34	77
Button	A. J. Wilson	337,723	Mar. 9	1131	292	34	1135
Button	T. J. Winans	341,532	May 11	776	209	35	657
Button and fastening	E. P. Whitney	338,377	Mar. 23	2030	533	34	1314
Button and fastening	E. P. Whitney	346,523	Aug. 3	95	25	36	478
Button and holder. Cuff	H. C. Croup	345,216	July 6	572	146	36	104
Button and holder. Cuff	E. Zöller	353,394	Nov. 30	2333	623	37	927
Button attaching device	R. G. Lewis	342,022	May 18	1442	386	35	792
Button-attaching machine	C. J. Brosnan	335,211	Feb. 2	179	48, 49	34	473
Button-attaching machine	J. C. F. Dick	354,969	Dec. 28	1914	505	37	1384
Button-attaching machine	J. Lamoreaux	353,791	Dec. 7	191	52	37	1042
Button-attaching machine	W. G. Slater and J. Lamoreaux	339,024	Mar. 30	2054	781	34	1483
Button-attaching machine	W. G. Slater and J. Lamoreaux	339,337	Apr. 6	320	80, 81	35	60
Button-attaching machine	E. H. Taylor	344,220	June 22	2073	531	35	1405
Button-attaching machines. Trip for operating	W. Crain	353,623	Nov. 30	2676	717	37	991
Button-attaching needle	E. Kempshall	341,148	May 4	343	72	35	549
Button. Changeable	L. D. Radzinsky	353,039	Nov. 23	1828	492	37	823
Button. Changeable	S. E. Smith	338,111	Mar. 16	1667	433	34	1239
Button. Collar-	C. G. Harstrom	333,752	Jan. 5	355	96	34	66
Button. Collar-	A. Hessels	339,775	Apr. 13	997	246	35	182
Button. Collar or cuff	H. H. Summa	354,521	Dec. 14	1263	338	37	1243
Button. Cuff-	F. Cook	351,579	Oct. 26	2145	555	37	411
Button. Cuff-	J. Costello	350,915	Oct. 19	1153	307	37	224
Button. Cuff-	G. Meiners	346,935	Aug. 10	627	168	36	589
Button. Biker	W. Biker	352,712	Nov. 16	1378	372	37	731
Button. Cuff or collar	S. C. Scott	341,510	May 11	745	201	35	651
Button-fastener	H. Bunch	337,738	Mar. 9	1149	298	34	1139
Button-fastener	H. A. Church	353,921	Dec. 7	390	103	37	1078
Button-fastener	A. Hall	342,598	May 25	2276	603	35	951
Button-fastener	A. Hall	351,437	Oct. 26	1929	502	37	369
Button-fastener	T. R. Hyde, Jr.	342,301	May 18	1833	485	35	863
Button-fastener	E. Ivins	339,555	Apr. 6	655	158	35	118
Button-fastener	E. Kempshall	344,583	June 29	2568	665	35	1503
Button-fastener	A. E. Müller	350,074	Sept. 28	2112	547	36	1465
Button-fastener	G. W. Prentice	336,943	Mar. 2	84	22	34	941

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Button-fastener	G. W. Prentice	341,944	May 18	1337	357	35	773
Button-fastener	G. W. Prentice	343,199	June 8	615	153	35	1128
Button-fastener	G. W. Prentice	344,007	June 22	1763	454	35	1350
Button-fastener	G. W. Prentice	344,858	July 6	91	23	36	17
Button-fastener	J. Ramsay	339,467	Apr. 6	508	123	35	94
Button-fastener	F. H. Richards	354,585	Dec. 21	1361	361	37	1368
Button-fastener	R. Sanford	344,870	July 6	107	27	36	20
Button-fastener	I. J. Saunders	333,551	Jan. 5	71	21	34	16
Button-fastener	F. A. Smith, Jr	336,167	Feb. 16	1548	408	34	729
Button-fastener	F. A. Smith, Jr	345,813	July 20	1460	378	36	275
Button-fastener	E. D. Steele	335,393	Feb. 2	432	111	34	518
Button-fastener	J. F. Thayer	340,686	Apr. 27	2273	599	35	436
Button-fastener	J. F. Thayer	341,965	May 18	1361	364	35	778
Button-fastener	J. F. Thayer	344,018	June 22	1782	459	35	1353
Button-fastener	J. F. Thornton	335,162	Feb. 2	90	24	34	456
Button-fastener	A. G. Wilkins	345,562	July 13	1094	279	36	202
Button-fastener-detaching implement	J. F. Thayer	342,480	May 25	2104	556	35	930
Button-fastener packing-case	F. H. Richards	336,589	Feb. 23	2151	563	34	842
Button-fastener packing-case	F. H. Richards	337,520	Mar. 9	885	225	34	1091
Button-fastener packing-case	F. H. Richards	343,493	June 8	1069	267	35	1207
Button-fastener. Safety	R. T. Chew	342,182	May 18	1653	442	32	832
Button-fastener-setting instrument	F. H. Richards	338,554	Mar. 23	2260	594	34	1355
Button-fastener-setting machine	F. H. Richards	341,053	May 4	107	32, 33	35	534
Button-fastener-setting machine	F. H. Richards	341,054	May 4	111	33, 34	35	535
Button-fasteners. Packing-case for	F. H. Richards	354,234	Dec. 14	862	228	37	1171
Button-fasteners. Packing-case for	F. H. Richards	354,235	Dec. 14	862	228	37	1171
Button-fastening	A. J. Shipley	351,535	Oct. 26	2078	539	37	399
Button-fastening for corsets or other garments. Flexible	S. B. Ferris	345,037	July 6	342	86	36	62
Button-feeding device	C. J. Brosnan	335,212	Feb. 2	183	49	34	473
Button-fly-scalloping machine	C. B. Hatfield	338,665	Mar. 23	2416	636, 637	34	1381
Button-fly-scalloping machine	C. B. Hatfield	347,105	Aug. 10	872	231	36	633
Button for gloves, &c	E. Pringle	347,887	Aug. 24	2005	532	36	858
Button for pants. Elastic suspender-	F. R. Curtis	351,497	Oct. 26	2023	525	37	387
Button. Hinged-shoe	W. W. Covell	350,120	Oct. 5	30	9	37	9
Button. Hinged-shoe	E. Zöller and J. T. Gardner	347,410	Aug. 17	1305	348	36	722
Button-hole-barring machine	J. Reece	349,358	Sept. 21	1118	289	36	1267
Button-hole cutter	H. H. Barnard	346,977	Aug. 10	680	181	36	599
Button-hole loop. Safety-	F. C. Churchill	341,879	May 18	1253	336	35	758
Button-hole marker	A. Huffer	353,064	Nov. 23	1864	503	37	830
Button-hole stitching and barring machine	J. H. Reed and F. W. Beale	355,028	Dec. 28	1994	524, 525, 526	37	1398
Button-hole-stitching machines. Stopping mechanism for	H. H. Cummings	354,103	Dec. 14	661	178	37	1135
Button-holes. Attachment for stitching and cutting	F. Egge	345,419	July 13	866	216	36	161
Button-holes. Machine for cutting and stitching	J. A. Osterhout	345,393	July 13	818	206, 207, 208	36	153
Button-holes. Machine for making	A. Helwig	350,364	Oct. 5	351	101, 102	37	71
Button-hook	W. S. Hicks	337,833	Mar. 16	1281	331	34	1169
Button-hook	G. O. Ring	346,608	Aug. 3	201	55	36	499
Button-hook and coat and hat hanger. Combined	L. B. Prahar	337,788	Mar. 9	1209	314	34	1148
Button-hook and corkscrew. Combined	L. B. Prahar and C. S. Shepard	349,741	Sept. 28	1665	430	36	1379
Button. Lacing	F. M. Piper	343,847	June 15	1356	394	35	1303
Button. Lever-	R. S. Cutting	337,747	Mar. 9	1159	301	34	1140
Button. Lever-	R. H. Lewis	354,068	Dec. 7	603	166	37	1116
Button-machine	C. A. Pfenning	350,211	Oct. 5	166	48	37	34
Button-making machine	W. Hornich	340,442	Apr. 20	1914	492, 493	35	356
Button or glove fastener	A. Köhler	334,669	Jan. 19	1663	444	34	322
Button or other analogous article	J. C. W. Jefferys	350,491	Oct. 12	553	154	37	109
Button or stud	T. B. Cleveland	334,349	Jan. 12	1223	329	34	234
Button or stud	L. P. Conard	353,778	Dec. 7	172	47	37	1039
Button or stud	H. H. Curtis	339,151	Apr. 6	48	15	35	12
Button or stud	C. H. Wood	344,609	June 29	2607	675	35	1511
Button or stud. Collar or cuff	R. Benedict	347,555	Aug. 17	1513	402	36	760
Button. Separable	A. H. Graves	351,434	Oct. 26	1926	501	37	369
Button-setting instrument	J. Bairstow and T. E. Keavy	336,832	Feb. 23	2480	652	34	903
Button-setting instrument	C. H. Eggleston	343,799	June 15	1494	376	35	1291
Button-setting instrument	T. E. Keavy	336,859	Feb. 23	2515	663	34	910
Button-setting instrument	F. H. Richards	343,546	June 8	1134	286	35	1220
Button-setting instrument	F. H. Richards	348,236	Aug. 31	2516	676	36	959
Button-setting instrument	F. H. Richards	348,237	Aug. 31	2519	677	36	959
Button-setting instrument	F. H. Richards	353,818	Dec. 7	233	63	37	1049
Button-setting instrument	F. H. Richards	353,819	Dec. 7	236	64	37	1050
Button-setting instrument	F. H. Richards	353,820	Dec. 7	237	64	37	1050
Button-setting instrument	F. A. Smith, Jr	344,012	June 22	1775	458	35	1352
Button-setting instrument	E. D. Steele	340,014	Apr. 13	1313	328	35	241
Button-setting machine	E. Pringle	338,776	Mar. 30	2597	684	34	1419
Button-setting machine	C. E. Temple and F. T. Bolton	345,740	July 20	1356	353	36	257
Button-setting machine	J. H. Vinton	346,419	July 27	2304	594	36	440
Button-setting machine	A. G. Wilkins and M. J. Bartlett	334,321	Jan. 12	1179	315, 316, 317	34	227
Button. Sleeve-	F. H. Gladding	341,901	May 18	1286	344	35	764
Button. Sleeve-	A. McKenzie	354,723	Dec. 21	1568	415	37	1306
Buttons and other analogous articles. Manufacture of	T. F. N. Finch	345,962	July 20	1664	430	36	312
Buttons and other articles. Die for making	J. P. Halstead	343,309	June 8	780	195	35	1157
Buttons. Implement for making covered	T. G. Roebuck	355,030	Dec. 28	1999	526	37	1398

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Buttons. Instrument for attaching	W. H. Wood	352,214	Nov. 9	723	193	37	599
Buttons. Machine for fastening	S. Schwab	344,600	June 29	2594	672, 673	35	1508
Buttons. Machine for making shoe	F. H. Hardman	353,677	Dec. 7	38	10	37	1014
Buttons. Making	F. L. Ellis	345,835	July 20	1490	386	36	279
Buttons. Making	F. A. Smith, Jr	336,955	Mar. 2	97	26, 27	34	943
Buttons. Making	J. F. Thayer	338,373	Mar. 23	2024	531	34	1313
Buttons. Manufacture of	O. T. Smith	354,662	Dec. 21	1487	395	37	1290
Buttons to fabric or leather. Stitching shank	W. E. Bennett	343,941	June 15	1668	428	35	1326
Buttons to fabric or other material. Machine for stitching	H. H. Cummings, W. E. Bennett, and R. Thompson.	343,948	June 15	1676	430	35	1327
Buttons to fabrics. Machine for securing	J. F. Thayer	337,636	Mar. 9	1024	263	34	1117
Buttons to garments. Fastening for attaching	E. J. Powell and W. F. Nolan	337,195	Mar. 2	418	109	34	1003
Buttoner	C. E. Cookerly	354,306	Dec. 14	972	258	37	1190
Buttoner	C. A. Taylor	349,415	Sept. 21	1203	311	36	1284
Buttoner and cigar-cutter combined	L. B. Prahar and C. S. Shepard	336,867	Feb. 23	2524	666	34	912
Buttoner. Combined boot and glove	F. G. L. Henderson	339,055	Mar. 30	2993	792	34	1490
Cab. Hansom	C. A. Floyd	333,845	Jan. 5	477	129	34	88
Cab. Hansom	C. A. Reade	342,632	May 25	2327	614	35	961
Cab-register	A. O. Jennings	334,780	Jan. 26	1812	482	34	358
Cab. Two-wheeled	F. Bex and E. F. Heunsch	336,467	Feb. 16	1983	519	34	806
Cab. Two-wheeled	A. T. Boon and A. Ries	342,674	May 25	2381	630	35	971
Cabbage-cutting machine	G. Geyer	335,912	Feb. 9	1174	312	34	658
Cabinet	L. F. Gerbing	337,055	Mar. 2	230	61	34	968
Cabinet	J. Longenecker	352,249	Nov. 9	767	205	37	606
Cabinet	E. E. Pettit	347,638	Aug. 17	1650	437	36	786
Cabinet and show-case. Combined	L. Wormser	353,770	Dec. 7	162	45	37	1037
Cabinet. Filing	P. J. Schlicht	355,219	Dec. 28	2270	598	37	1453
Cabinet for exhibiting wares	J. Levenguth	346,295	July 27	2126	547	36	408
Cabinet for holding spools of thread, &c	J. A. Law	354,912	Dec. 28	1840	486, 487	37	1370
Cabinet for prints, books, &c	I. W. Heysinger	350,588	Oct. 12	687	186, 187	37	131
Cabinet for spool-thread	F. Meyers	353,572	Nov. 30	2595	693	37	976
Cabinet-lock	W. A. Mack	344,844	July 6	68	17	36	13
Cabinet-stand	A. F. Gerald	335,576	Feb. 9	687	181	34	570
Cable-brake	A. Roncaglia	339,697	Apr. 13	890	218, 219	35	163
Cable. Compound electric	H. W. Libbey	342,523	May 25	2175	576	35	931
Cable-conduit	W. A. Wright	335,553	Feb. 2	647	169, 170	34	556
Cable-coupling	H. F. Gale and L. A. Hawley	339,399	Apr. 6	408	99	35	76
Cable-coverings. Ring for	C. Bullock	335,679	Feb. 9	826	220	34	595
Cable-grip	T. O. Cooper	350,813	Oct. 12	1009	270	37	191
Cable-grip	J. S. Forbes	345,495	July 13	971	246	36	180
Cable-grip	C. A. Howe	351,983	Nov. 2	369	101	37	527
Cable-grip	G. Muller	352,255	Nov. 9	777	208	37	608
Cable-grip	E. Samuel and V. Angerer	344,598	June 29	2592	671, 672	35	1507
Cable-grip	E. Samuel and V. Angerer	352,356	Nov. 9	908	243	37	634
Cable-grip	L. B. White	350,028	Sept. 28	2047	528	36	1453
Cable-grip. Roller	G. A. Polhemeus. (Reissue)	10,677	Jan. 12	1291	348	34	246
Cable-grip. Roller	G. A. Polhemeus	353,809	Dec. 7	220	59	37	1047
Cable-gripping device	J. A. Goldstein	350,585	Oct. 12	682	185, 186	37	131
Cable-gripping device	J. Hellings	353,941	Dec. 7	420	113, 114	37	1083
Cable-lifting mechanism	J. J. Endres	347,785	Aug. 24	1853	494	36	831
Cable or electric road. Double-track	C. Bullock	335,560	Feb. 9	662	174	34	566
Cable-road grip	S. H. Terry	353,178	Nov. 23	2024	542, 543	37	862
Cable-road rail	J. J. Endres	347,782	Aug. 24	1849	493	36	830
Cable-road switch. Automatic	H. F. Brown and F. E. Stratton	338,823	Mar. 30	2657	699, 700	34	1430
Cable roads, ditches, &c. Concrete mold for sub-ways for	E. L. Ransome	353,500	Nov. 30	2492	665, 666	37	957
Cable-supporting sheaves. Mechanism for operating	J. H. Robertson	353,005	Nov. 23	1772	477	37	814
Cable system. Traction	C. H. Bowen	343,293	June 8	761	189, 190, 191	35	1153
Cable-tension device	T. W. Burt	338,387	Mar. 23	2041	536	34	1316
Cables around curves. Carrying traction	W. Phenix	337,786	Mar. 9	1207	314	34	1148
Cables. Machine for making and trimming compound wire	G. M. Cruickshank	346,645	Aug. 3	250	68	36	509
Cables. Making wire	A. J. Moxham	337,513	Mar. 9	876	222	34	1090
Cables. Splice for underground	W. R. Patterson	346,942	Aug. 10	636	171	36	591
Cables. Splicing	T. C. Nash	345,719	July 20	1319	342	36	250
Cables underground. Apparatus for laying submarine	H. C. Spalding	339,341	Apr. 6	324	81	35	61
Cages. Perch and food-holder for	G. C. Hinman	340,116	Apr. 20	1447	366	35	270
Caisson	H. H. Hall and B. H. Bull	346,543	Aug. 3	119	32	36	483
Cake, jumble, and snap machine	M. De Tamble. (Reissue)	10,691	Feb. 23	2559	675, 676	34	918
Calcimine compound	H. F. Bemendefer	350,652	Oct. 12	788	.....	37	150
Calculating device	W. D. F. Jarvis	338,075	Mar. 16	1607	419	34	1228
Calculating-machine	K. Duschanek	334,419	Jan. 19	1314	356, 357	34	258
Calculating-machine	E. W. Watson	334,064	Jan. 12	789	216, 217	34	155
Calculator	E. P. Beach	345,022	July 6	324	81	36	59
Calculator	L. M. Carmical	346,805	Aug. 3	430	118	36	544
Calculator	J. V. Charpantier	344,624	June 29	2629	680	35	1515
Calculator	G. H. Harris	352,408	Nov. 9	972	261	37	648
Calculator	G. F. Hawley	342,796	June 1	30	8	35	1012

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Calculator. Ball	C. Pelletier	345,445	July 13	904	226	36	168
Calculator. Tabular	F. W. Child	343,566	June 15	1169	294 295	35	1234
Calculator. Tax and percentage	E. Halsey	344,182	June 22	2020	517	35	1395
Calculator. Time	S S. Streck	337,533	Mar. 9	902	230	34	1004
Calendar	M. Carey	337,478	Mar. 9	833	211	34	1002
Calendar	E. N. Heath	344,376	June 29	2292	590 591	35	1452
Calendar and stand. Memorandum	A. Zumpe	337,470	Mar. 9	823	208	34	1000
Calendar. Breeding	J. W. Snider	351,131	Oct. 19	1475	387	37	283
Calendar. Perpetual dial	C. R. Talcott	342,981	June 1	286	74	35	1058
Calendars. Adjustable indicator for	R. Shriver	346,132	July 27	1895	490	36	363
Caliper handle. Micrometer	M. M. Barnes	346,706	Aug. 3	322	88	36	524
Caliper. Inside	W. E. Pettengill	350,768	Oct. 12	937	252	37	178
Calipers	J. H. Bullard	335,740	Feb. 9	923	243	34	613
Calipers	K. P. Dahlstrom	351,363	Oct. 26	1793	472	37	346
Calipers	T. C. Hendey	346,915	Aug. 10	601	161	36	584
Calipers	G. W. Jopson	343,178	June 8	593	148	35	1123
Calipers	S. Taylor	335,487	Feb. 2	554	145	34	540
Calipers. Adjustable interior	A. Heydrich	339,410	Apr. 6	423	104	35	79
Calipers and dividers	J. Stevens	337,531	Mar. 9	900	229	34	1094
Calipers and dividers. Rapidly-adjusting nut for	C. P. Fay	334,764	Jan. 26	1795	478	34	354
Calipers for inside and outside measurement	C. Tepel	347,016	Aug. 10	739	196 197	36	609
Calipers. Micrometer	M. M. Barnes	346,456	Aug. 3	7	3	36	462
Calipers. Micrometer	M. M. Barnes	346,705	Aug. 3	320	88	36	524
Calipers. Micrometer	E. S. Cobb	335,214	Feb. 2	186	50	34	474
Calipers. Micrometer	D. McArthur	343,478	June 8	1050	261 262	35	1204
Calipers. Micrometer	A. L. Washburn	350,513	Oct. 12	582	161	37	113
Calipers. Micrometer	W. H. Wilkinson	350,516	Oct. 12	585	162	37	114
Calipers. Micrometer inside	J. T. Usher	347,844	Aug. 24	1941	515	36	848
Calipers or dividers	E. Weissenborn	341,086	May 4	143	43	35	531
Calipers. Proportional	W. E. Lombard	345,978	July 20	1686	436	36	316
Calipers. Slide	J. Hurst	353,561	Nov. 30	2583	690	37	975
Calipers. Spring	C. S. Rogers	343,342	June 8	845	213	35	1167
Calk-plate for horseshoes	J. J. Wilhelm	351,013	Oct. 19	1318	346	37	254
Call apparatus. Individual	L. S. Glover	352,948	Nov. 23	1688	453 454	37	798
Call-box. Multiple	C. Herrmann	350,882	Oct. 12	1104	294 295	37	209
Caloric engine	L. A. Daelen	336,093	Feb. 16	1433	378	34	710
Cam	T. Puetz, Jr	336,528	Feb. 16	2063	542	34	821
Camera: *See* Detective-camera. Photographic camera.							
Camera	C. C. Bragg	339,736	Apr. 13	940	231	35	171
Camera	G. McLaughlin	346,120	July 27	1873	484	36	359
Camera attachment	S. S. Benster	339,731	Apr. 13	935	229	35	171
Camera-obscura	F. Sharpe and H. E. Blake	351,532	Oct. 26	2073	538	37	398
Camera plate-holder	L. Koss	342,914	June 1	192	49	35	1049
Camera-shutter	J. R. Froome	343,367	June 8	887	223	35	1176
Camera-shutter	A. E. Rinehart	338,782	Mar. 30	2603	686	34	1420
Camera-stand	R. A. Bonine	345,949	July 20	1647	424 425	36	309
Camera-stand	J. J. Higgins	353,856	Dec. 7	289	76	37	1059
Camera stands, school-desks, &c. Adjustable attachment for	F. Shepherd	337,876	Mar. 16	1336	346	34	1179
Cameras. Instantaneous shutter for	E. E. Collison, Jr	341,887	May 18	1265	339	35	760
Camp-chair	G. Pietze	337,715	Mar. 9	1121	289	34	1133
Camping-chest	C. B. Rice	336,347	Feb. 16	1819	477 478	34	776
Can: *See* Coffee or tea can. Miner's can. Coffee or spice can. Oil-can. Liquid-can. Paint-can. Measuring-can. Plaster-can. Metal can. Powder-can. Milk-can. Sheet-metal can. Milk and cream can. Shipping-can.							
Can	D. C. Morey, Jr	338,432	Mar. 23	2109	552	34	1398
Can	L. Petterson	350,269	Oct. 5	230	67	37	48
Can	C. H. Shaffer	336,072	Feb. 9	1391	368	34	696
Can bodies. Device for forming and seaming tin	E. J. Dolan	345,284	July 13	676	170	36	128
Can bodies. Machine for jointing and seaming tin	C. M. Symonds	338,887	Mar. 30	2752	723 724 725	34	1447
Can-counting machine	E. Norton	334,273	Jan. 12	1119	300	34	215
Can-delivering device. Automatic	E. Norton	334,274	Jan. 12	1119	300	34	215
Can fastener. Fruit	G. W. Coddington	336,796	Feb. 23	2432	639	34	895
Can-filling apparatus	A Cerruti	341,996	May 18	1401	374	35	784
Can-handle	F. W. Coleman	336,699	Feb. 23	2310	604	34	872
Can-heading machine	J. Solter	352,840	Nov. 16	1537	414	37	760
Can-making machine	E. J. Dolan	353,737	Dec. 7	120	23, 34	37	1028
Can-nozzle	R. Marsh	354,561	Dec. 21	1327	352	37	1262
Can-opener	R. Axten	339,515	Apr. 6	580	139	35	106
Can-opener	C. F. Leopold	333,764	Jan. 5	368	100	34	69
Can-opener	G. W. Lyons and J. Sheldon	349,281	Sept. 14	1012	259	36	1239
Can-opener	J. Sample	347,067	Aug. 10	819	218	36	624
Can-opener	F. Sharp	347,834	Aug. 24	1929	512	36	846
Can-opener	G. H. Tansley	341,963	May 18	1359	363	35	777
Can-opener	R. S. Wakeman	338,211	Mar. 16	1795	468	34	1265
Can-opener	T. R. and F. K. Way and J. H. Clarke	337,719	Mar. 9	1127	290	34	1134
Can-opener	E. A. Wheeler	347,674	Aug. 17	1700	453	36	795
Can or box	F. E. De Jean	336,094	Feb. 16	1434	379	34	710

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Can rosining and soldering machine. Combined	J. H. Hermann	339,774	Apr. 13	993	245	35	182
Can top and cover	F. A. Robbins	353,160	Nov. 23	2004	537	37	858
Can-valve	A. O. Fitz Gerald	346,033	July 20	1770	455	36	329
Can-watering machine	A. R. Merrell and D. Lennox	354,206	Dec. 14	825	218	37	1164
Cans and boxes. Manufacture of metal	E. B. de Villeroche and A. Chatelard.	342,503	May 25	2148	568	35	927
Cans and other vessels. Closure for	T. W. Young	340,650	Apr. 27	2227	584	35	418
Cans. Apparatus for sealing	C. B. Davis	345,576	July 13	1111	284	36	205
Cans, bottles, &c. Reversible stopper for	F. J. Deverall	342,338	May 25	1897	502	35	884
Cans. Device for tapping	C. E. Quigley	344,199	June 22	2047	524	35	1400
Cans. Filler and faucet for	H. J. Vogel	341,783	May 11	1118	296	35	724
Cans. Float for transportation	W. A. Carpenter	352,910	Nov. 23	1638	440	37	790
Cans. Nozzle, &c., for	E. R. Deverall	339,533	Apr. 6	620	151	35	112
Cans. Unsoldering and cleaning tin	J. W. Bradshaw	344,561	June 29	2547	658	35	1498
Canal-lock	J. B. Tainter	344,879	July 6	122	30	36	22
Candle	E. L. Brown	345,272	July 13	657	167	36	125
Candle	S. Clarke	343,567	June 15	1173	295	35	1234
Candle attachment	G. Whyte	350,710	Oct. 12	863	232	37	165
Candle-burner	H. Bové	348,377	Aug. 31	2706	737	36	997
Candle-holder	B. M. O'Boylan	338,099	Mar. 16	1651	429	34	1237
Candle-holder. Barbed	A. Grafke	338,594	Mar. 23	2316	606	34	1364
Candlestick	M. A. Greeley	333,517	Jan. 5	31	8	34	8
Candlestick	M. A. Greeley	349,036	Sept. 14	685	176	36	1176
Candlestick	S. Tyrell	345,461	July 13	923	232	36	171
Candlestick attachment	G. Grisel	347,484	Aug. 17	1416	376	36	742
Candlestick. Miner's	T. Cox	347,691	Aug. 17	1720	459	36	799
Candy. Apparatus for cooling and heating	T. Burkhard, Jr	337,303	Mar. 2	570	150	34	1031
Candy-box	L. F. Haehnlen	348,671	Sept. 7	192	51	36	1082
Candy. Christmas-tree	C. Grimm	354,569	Dec. 14	1248	334	37	1240
Candy-crimping machine	P. B. Laskey	337,509	Mar. 9	871	221	34	1089
Candy-manufacturing machine	G. S. Collum	336,839	Feb. 23	2492	656	34	906
Candy, &c. Mixing and heating and cooling kettle for	T. Burkhard	338,583	Mar. 23	2300	602	34	1361
Candy. Pan for packing	J. B. Langan	345,907	July 20	1589	410	36	298
Candy-shaping machine. Automatic	G. C. Snyder	347,971	Aug. 24	2132	568	36	882
Candy-whistle mold	A. J. and A. Wisner	347,406	Aug. 17	1398	346	36	731
Cane and whip. Combined walking-	R. M. Thomas	344,75 7	June 29	2798	724	35	1545
Cane. Cutting sugar and sorghum	H. A. Hughes	354,905	Dec. 28	1827	483	37	1367
Cane. Elastic-pressure walking-	J. Spare	340,738	Apr. 27	2351	619	35	439
Cane, &c. Extensible	A. H. Allen	341,715	May 11	1037	275	35	709
Cane-juice defecator	T. F. Haubtman	335,352	Feb. 2	375	97, 98	34	508
Cane. Machine for breaking and cutting	T. F. Krajewski	349,503	Sept. 21	1327	345	36	1308
Cane. Machine for slicing sugar-	A. Stromberg	341,959	May 18	1355	363	35	776
Cane-mill	J. T. Webb	335,862	Feb. 9	1092	288	34	642
Cane, &c. Mill for pressing	J. Murphy	346,493	Aug. 3	57	14	36	471
Cane. Stripping and cleaning sugar-	H. A. Hughes	354,510	Dec. 14	1248	334	37	1241
Cane-stubble shaver and destroyer	J. Millet	339,916	Apr. 13	1174	292	35	216
Cane. Sword-	E. Holman	350,249	Oct. 5	207	59	37	43
Cane, umbrella, and hat rack. Combined	A. Frank	333,741	Jan. 5	341	92	34	64
Canes and the like. Liquid-receptacle for	H. and L. Iwan	344,966	July 6	231	59	36	42
Canister	G. J. F. Tate	345,554	July 13	1081	276	36	200
Canning apparatus	C. F. Mudge	346,122	July 27	1877	485	36	360
Canning fruits, meats, &c. Apparatus for	G. Ackermann and J. Wagner	353,911	Dec. 7	377	100	37	1076
Cannon. Pneumatic	W. A. Bartlett	344,936	July 6	193	49, 50	36	36
Cannon. Pneumatic	G. H. Reynolds	353,430	Nov. 30	2386	637	37	937
Cannon. Revolving pneumatic	W. A. Bartlett	352,110	Nov. 9	564	149, 150	37	571
Canteen	J. McKenney and T. W. McKeever.	350,544	Oct. 12	620	172	37	120
Canvas-stretcher	C. F. Dodge	339,276	Apr. 6	233	58	35	43
Canvas-stretcher. Keyless	J. L. Rawbone	335,480	Feb. 2	544	143	34	538
Cap	E. Arnheim	344,231	June 22	2086	533	35	1407
Cap	I. H. Dinner	352,453	Nov. 9	1027	277	37	658
Cap	C. Freschl	344,368	June 29	2283	587	35	1450
Cap	A. Ward	338,003	Mar. 16	1523	394	34	1212
Cap and faucet. Sealed	W. Longman	339,198	Apr. 6	119	33	35	24
Cap for flasks, &c	W. C. Johnson	340,443	Apr. 20	1916	493	35	357
Cap. Reversible	D. Schlesinger	345,807	July 20	1453	376	36	276
Cap. Traveling	T. R. Carskadon	338,033	Mar. 16	1562	405	34	1219
Caps. Case for holding Scotch	J. E. McLoughlin and H. E. Brewster.	348,228	Aug. 31	2507	674	36	957
Cape and jacket. Combined	B. Levy	336,124	Feb. 16	1471	388	34	717
Capstan	F. Allen and F. A. Grater	351,241	Oct. 19	1621	426	37	310
Capstan	S. Montgomery	346,822	Aug. 3	451	124, 125	36	548
Capsule-cutting machine	T. C. Merz	355,193	Dec. 28	2234	590	37	1445
Capsule-filling machine	J. Krehbiel	336,010	Feb. 9	1300	346	34	680
Capsule-filling machine	R. Walsh	346,964	Aug. 10	664	177	36	596
Capsule-joining machine	W. A. Tucker	336,177	Feb. 16	1563	411, 412	34	731
Capsule-machine	J. Krehbiel	334,240	Jan. 12	1063	282	34	205
Capsule-machine	J. Krehbiel	344,783	June 29	2837	734	35	1553
Capsule-machine	J. Krehbiel	347,941	Aug. 24	2087	554	36	874
Capsule-machine	O. C. Mellick	341,267	May 4	411	113	35	581
Capsule-machine	T. C. Merz	334,792	Jan. 26	1827	487	34	360
Capsule-mold-greasing machine	F. A. Hubel and F. J. Reinhold	345,591	July 13	1131	289	36	209
Capsule-stripping machine	J. Krehbiel	347,374	Aug. 10	1101	294	36	675
Capsules. Process of making gelatine	J. Krehbiel	338,754	Mar. 30	2563	677	34	1414
Car and house warmer	J. Q. C. Searle	340,825	Apr. 27	2463	648	35	460
Car and locomotive frames. Horn-plate for	S. Fox	341,802	May 11	1141	303	35	728
Car-brake	G. L. Adams	347,911	Aug. 24	2040	539	36	865
Car-brake	A. G. Butterfield	353,621	Nov. 30	2672	716	37	990
Car-brake	G. F. Card	334,637	Jan. 19	1620	431, 432	34	313
Car-brake	J. P. Champion	336,090	Feb. 16	1430	378	34	709

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Pages.
Car-brake	J. S. Connelly	352,225	Nov. 9	739	198	37	601
Car-brake	H. F. Cook	347,575	Aug. 17	1541	409, 410	36	766
Car-brake	A. Dieu	353,782	Dec. 7	177	48, 49	37	1039
Car-brake	L. Dubé	354,891	Dec. 28	1807	478	37	1364
Car-brake	G. Fletcher	339,284	Apr. 6	246	61	35	46
Car-brake	P. A. Gambaro	336,911	Mar. 2	41	11, 12	34	934
Car-brake	J. J. and J. Harkins	337,559	Mar. 9	956	245	34	1104
Car-brake	R. R. Hice	346,202	July 27	1097	515	36	383
Car-brake	R. R. Hice	347,039	Aug. 10	770	205, 206	36	615
Car-brake	G. T. Horton	335,521	Feb. 2	603	157	34	548
Car-brake	L. C. Huber	340,580	Apr. 27	2128	548, 549	35	402
Car-brake	D. C. Knowlton and J. E. Harris	336,120	Feb. 16	1467	387	34	716
Car-brake	W. Lang	339,905	Apr. 13	1161	289	35	214
Car-brake	J. Linnroth	339,670	Apr. 13	843	207	35	156
Car-brake	W. H. Masterman	333,874	Jan. 5	516	141	34	96
Car-brake	M. J. Moriarty	338,283	Mar. 23	1892	497	34	1290
Car-brake	J. Morrow	351,519	Oct. 26	2053	533	37	395
Car-brake	F. H. D. Newhard	335,378	Feb. 2	409	105	34	515
Car-brake	F. H. D. Newhard	335,379	Feb. 2	411	105, 106	34	515
Car-brake	F. H. D. Newhard	335,380	Feb. 2	412	106	34	515
Car-brake	F. H. D. Newhard	348,038	Aug. 24	2215	592	36	898
Car-brake	F. H. D. Newhard	348,039	Aug. 24	2217	593	36	898
Car-brake	F. H. D. Newhard	348,040	Aug. 24	2218	593	36	899
Car-brake	J. W. Owens	340,149	Apr. 20	1592	379	35	281
Car-brake	H. S. Park	349,738	Sept. 28	1657	428	36	1378
Car-brake	B. L. Randall	337,616	Mar. 9	1000	257	34	1113
Car-brake	E. G. Reilly	349,608	Sept. 21	1465	378	36	1336
Car-brake	H. J. Romberg	342,636	May 25	2311	616	35	962
Car-brake	J. W. Stark	343,502	June 8	1078	270	35	1209
Car-brake	C. M. Sturgis	339,597	Apr. 6	735	180	35	129
Car-brake	T. Suchland	347,841	Aug. 24	1937	514	36	848
Car-brake	S. H. Terry	345,263	July 6	640	162, 163	36	116
Car-brake	W. H. Tice	344,694	June 29	2712	705	35	1531
Car-brake	W. B. Turner	336,026	Feb. 9	1319	349, 350	34	683
Car-brake	F. L. Volz	341,079	May 4	142	43	35	531
Car-brake	E. A. Wescott and E. R. Bristol	340,748	Apr. 27	2363	622	35	441
Car-brake	G. Westinghouse, Jr	345,093	July 6	409	104	36	74
Car-brake. Air	J. B. Gathright	353,673	Dec. 7	38	8	37	1012
Car brake and starter	D. Hall	339,645	Apr. 13	812	200	35	149
Car brake and starter	D. Hall	347,346	Aug. 17	1213	324	36	705
Car brake and starter	J. S. Lubs	344,784	June 29	2839	735	35	1553
Car brake and starter	W. Montgomery	343,594	June 15	1210	304	35	1240
Car brake and starter	J. F. Morell	337,278	Mar. 2	535	140	34	1025
Car brake and starter	J. F. Morell and C. Tilton	350,290	Oct. 12	1116	297	37	210
Car brake and starter	F. Tompkins. (Reissue)	10,733	June 8	1154	291	35	1223
Car-brake and wheel-dresser	J. Meehan	354,725	Dec. 21	1570	416	37	1306
Car-brake attachment	R. Quatermass	355,100	Dec. 28	2104	553	37	1419
Car-brake. Automatic	J. B. Gathright. (Reissue)	10,744	July 6	653	166	36	118
Car-brake. Automatic	J. B. Gathright	353,672	Dec. 7	25	8	37	1011
Car-brake. Automatic	G. T. Gifford	350,128	Oct. 5	40	11, 12	37	10
Car-brake. Automatic	H. C. Hopkins and R. E. Linham	346,204	July 27	2001	516	36	383
Car-brake. Automatic	K. H. H. Leineweber	340,587	Apr. 27	2134	551, 552	35	403
Car-brake. Automatic	K. H. H. Leineweber	354,915	Dec. 28	1844	488	37	1370
Car-brake. Automatic	A. P. Massey	351,786	Nov. 2	82	23	37	473
Car-brake. Automatic	F. H. D. Newhard	335,377	Feb. 2	408	104, 105	34	514
Car-brake. Automatic	G. H. Poor	348,234	Aug. 31	2514	675, 676	36	958
Car-brake. Automatic	C. V. Rote	347,010	Aug. 10	727	192, 193	36	607
Car-brake. Automatic	C. V. Rote	347,011	Aug. 10	730	194, 195	36	607
Car-brake. Automatic	G. Shone	343,204	June 8	620	155	35	1128
Car-brake. Automatic	H. A. Wahlert	351,139	Oct. 19	1485	389	37	284
Car-brake. Electro-magnetic	H. S. Park	348,636	Sept. 7	142	40	36	1073
Car-brake. Electro-magnetic	H. S. Park	351,650	Oct. 26	2249	582	37	400
Car-brake. Electro-magnetic	H. S. Park	353,880	Dec. 7	325	85	37	1067
Car-brake. Electro-magnetic	I. A. Timmis and G. Forbes	347,075	Aug. 10	815	222	36	627
Car brake. Railway	J. W. Rice	345,320	July 13	723	183	36	137
Car-brake shoe	L. S. Colburn	347,419	Aug. 17	1314	350	36	723
Car brake. Steam	I. P. Carnes	338,032	Mar. 16	1561	404	34	1219
Car-brake. Steam	A. S. Nadow	351,521	Oct. 26	2056	534	37	395
Car brakes. Clutch for street	W. V. Willson	348,306	Aug. 31	2612	703	36	979
Car. Cable	C. Mousley	341,764	May 11	1097	291	35	720
Car cable-grip	T. Kerr	353,361	Nov. 30	2282	609	37	917
Car. Cable-railway	L. B. White	350,091	Sept. 28	2137	553	36	1470
Car. Cattle	F. E. Canda	344,161	June 22	1989	509	35	1389
Car. Cattle	F. E. Canda	345,481	July 13	950	239, 240	36	176
Car. Cattle	F. E. Canda	345,482	July 13	951	240	36	177
Car. Coal and ore	L. J. Barr	349,134	Sept. 14	825	209	36	1202
Car. Convertible street	P. J. Smith and J. F. McEvoy	351,130	Oct. 19	1474	386	37	282
Car-coupler	W. L. Wait	341,190	May 4	302	86	35	560
Car-coupling	W. H. Adams, J. D. Felthousen, and A. Lawtenslager.	339,358	Apr. 6	348	85	35	65
Car-coupling	P. A. Aikman	343,528	June 8	1106	278	35	1215
Car-coupling	J. A. Alexander	338,014	Mar. 16	1535	398	34	1214

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Invention.	Name.	No.	Date.	Monthly Volume. Spec.	Monthly Volume. Drwg.	Official Gazette. Vol.	Official Gazette. Page.
Car-coupling	G. F. Almy	349,968	Sept. 28	1964	507, 508	36	1438
Car-coupling	E. Apgar	347,679	Aug. 17	1706	455	36	796
Car-coupling	A. Armitage	340,473	Apr. 20	1963	504, 505	35	365
Car-coupling	J. Arnold	341,396	May 4	597	164	35	613
Car-coupling	J. C. Askren	349,679	Sept. 28	1556	403	36	1361
Car-coupling	A. D. Babcock	339,517	Apr. 6	581	140	35	107
Car-coupling	N. Bagby	334,410	Jan. 19	1305	353	34	256
Car-coupling	J. W. Baker and G. A. Prescott	353,838	Dec. 7	263	70	37	1055
Car-coupling	C. M. Baldwin	336,466	Feb. 16	1982	519	34	806
Car-coupling	J. C. Ballentine	335,575	Feb. 9	1109	293	34	647
Car-coupling	H. A. Barnard	353,773	Dec. 7	165	46	37	1037
Car-coupling	C. O. and L. Barnes, Sr	335,675	Feb. 9	823	219	34	594
Car-coupling	C. O. and L. Barnes, Sr	337,650	Mar. 9	1041	267	34	1120
Car-coupling	N. Barr	354,008	Dec. 7	519	141	37	1101
Car-coupling	W. W. Bays	342,168	May 18	1641	439	35	830
Car-coupling	E. Beaudin	351,568	Oct. 26	2124	550	37	408
Car-coupling	H. Beemer	352,640	Nov. 16	1273	343	37	710
Car-coupling	J. Bersch	354,677	Dec. 21	1509	400	37	1294
Car-coupling	B. Bird	352,511	Nov. 16	1097	296	37	679
Car-coupling	J. J. Bogard	353,118	Nov. 23	1937	519	37	845
Car-coupling	A. H. Boies	351,090	Oct. 19	1421	373	37	272
Car-coupling	J. Booth	354,301	Dec. 14	966	256	37	1189
Car-coupling	R. L. Boyers	344,715	June 29	2738	711	35	1535
Car-coupling	J. Bradley	339,261	Apr. 6	211	53	35	39
Car-coupling	I. H. Bradshaw	338,821	Mar. 30	2654	699	34	1430
Car-coupling	M. Brennan	344,158	June 22	1986	508	35	1389
Car-coupling	J. A. Brill	351,734	Nov. 2	8	2	37	460
Car-coupling	J. A. Brill and E. H. Zitzman	346,460	Aug. 3	13	4	36	463
Car-coupling	P. Brinkerhoff	343,294	June 8	764	191	35	1154
Car-coupling	C. J. Brinton, Jr	345,108	July 6	430	110	36	78
Car-coupling	N. H. Broun	336,791	Feb. 23	2427	639	34	894
Car-coupling	G. W. Brown and J. E. Wilson	338,135	Mar. 16	1696	441	34	1246
Car-coupling	J. A. Brown	343,681	May 25	2390	633	35	972
Car-coupling	T. J. Bruce	348,720	Sept. 7	254	68	36	1094
Car-coupling	W. H. Burkholder	354,041	Dec. 7	565	154	37	1109
Car-coupling	J. H. Buster	347,919	Aug. 24	2051	544	36	867
Car-coupling	H. H. Campbell	344,719	June 29	2742	712	35	1536
Car-coupling	W. W. Campbell	346,089	July 27	1836	474	36	352
Car-coupling	J. W. Carley	350,527	Oct. 12	598	165	37	116
Car-coupling	G. F. Carruthers	344,164	June 22	1994	511	35	1390
Car-coupling	F. A. Casey	343,223	June 8	651	162	35	1134
Car-coupling	F. A. Casey	344,815	July 6	16	4	36	5
Car-coupling	C. T. Chappell	340,762	Apr. 27	2381	627, 628	35	445
Car-coupling	J. C. Clay	343,434	June 8	977	244	35	1191
Car-coupling	M. W. Coddington	351,964	Nov. 2	340	94	37	521
Car-coupling	M. J. Colbourne	349,694	Sept. 28	1576	408, 409	36	1365
Car-coupling	J. W. Cole	338,828	Mar. 30	2668	702	34	1432
Car-coupling	W. Conner	340,099	Apr. 20	1431	362	35	267
Car-coupling	R. Coon, J. H. Hedges, and W. M. Bernard.	336,091	Feb. 16	1431	378	34	709
Car-coupling	H. S. S. Copland and J. C. Gilmour	346,986	Aug. 10	689	183	36	600
Car-coupling	T. E. Corkhill, Jr	350,929	Oct. 12	600	166	37	116
Car-coupling	P. V. Cornils	348,954	Sept. 14	568	151	36	1157
Car-coupling	G. W. Countryman	345,771	July 20	1404	364	36	255
Car-coupling	N. P. Cowell and J. W. Pinkham	335,992	Feb. 9	1272	337	34	674
Car-coupling	R. A. Cowell	335,993	Feb. 9	1273	337	34	675
Car-coupling	W. C. Cowen	334,751	Jan. 26	1779	473	34	351
Car-coupling	J. A. Craig	343,109	June 1	474	120	35	1093
Car-coupling	R. M. Crawford	353,442	Nov. 30	2403	642	37	941
Car-coupling	J. Darling	338,041	Mar. 16	1569	407, 408, 409	34	1221
Car-coupling	T. Davies	353,208	Nov. 23	2073	554	37	872
Car-coupling	H. J. Davis	346,026	July 20	1758	453	36	327
Car-coupling	E. Dederick	345,282	July 13	673	170	36	127
Car-coupling	T. Diemer	342,825	June 1	74	18	35	1020
Car-coupling	M. Dill	334,355	Jan. 12	1233	331	34	236
Car-coupling	R. H. Dowling	339,156	Apr. 6	54	17	35	13
Car-coupling	J. P. Duff	352,526	Nov. 16	1115	302	37	682
Car-coupling	W. Dunn and D. A. Terry	351,315	Oct. 19	1732	453	37	327
Car-coupling	J. P. Eakin	340,298	Apr. 20	1730	440	35	321
Car-coupling	J. H. Earles	351,754	Nov. 2	36	10	37	465
Car-coupling	H. Eckel	343,989	June 22	1742	448	35	1346
Car-coupling	F. N. Eddleman	337,823	Mar. 16	1267	328	34	1166
Car-coupling	J. M. Edwards	339,751	Apr. 13	964	237	35	176
Car-coupling	G. F. Ells	344,955	July 6	215	55	36	40
Car-coupling	D. L. Ervin	354,774	Dec. 21	1645	436	37	1321
Car-coupling	T. P. Evans	339,362	Apr. 6	399	97, 98	35	74
Car-coupling	J. C. Farmer and J. W. White	344,037	June 22	1812	466	35	1357
Car-coupling	C. W. Ferguson	345,036	July 6	340	86	36	62
Car-coupling	G. J. Ferguson	343,806	June 15	1503	378	35	1293
Car-coupling	G. J. Ferguson	351,756	Nov. 2	39	10, 11	37	466
Car-coupling	C. M. Ferrell	349,488	Sept. 21	1306	340	36	1304
Car-coupling	F. M. Foote	346,034	July 20	1771	456	36	329
Car-coupling	J. B. Force	349,153	Sept. 14	846	216	36	1206
Car-coupling	S. J. Ford	352,744	Nov. 16	1410	381	37	738
Car-coupling	W. B. Foster	345,582	July 13	1120	286	36	207
Car-coupling	J. C. Fowler	338,635	Mar. 23	2373	625	34	1374
Car-coupling	P. Frank	351,970	Nov. 2	348	96	37	523
Car-coupling	C. E. Fritts	343,707	June 15	1369	342	35	1268

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Car-coupling	A. N., Jr., and A. L. Gabel	337,257	Mar. 2	501	131	34	1019
Car-coupling	J. B. Garrett	345,498	July 13	976	247	36	181
Car-coupling	R. Gemmell	352,534	Nov. 16	1125	304	37	684
Car-coupling	J. J. Gieffels and J. Thomas	350,927	Oct. 19	1165	310	37	226
Car-coupling	G. S. Gildersleeve	352,239	Nov. 9	756	202	37	604
Car-coupling	R. D. Giles	339,543	Apr. 6	633	155	35	115
Car-coupling	C. and S. Good	335,752	Feb. 9	939	247	34	615
Car-coupling	J. Gorny	346,039	July 20	1776	457	36	330
Car-coupling	D. U. Graveline	333,850	Jan. 5	484	131	34	90
Car-coupling	D. B. Gray	338,149	Mar. 16	1712	446	34	1249
Car-coupling	P. C. Greenawalt	339,984	Apr. 13	1267	316	35	232
Car-coupling	A. M. Gregory	348,519	Aug. 31	2911	783	36	1036
Car-coupling	H. Hadden	354,636	Dec. 21	1449	384	37	1283
Car-coupling	C. Halpin	336,806	Feb. 23	2446	642	34	897
Car-coupling	S. Haltom	342,793	June 1	26	8	35	1011
Car-coupling	J. T. Hammick	338,405	Mar. 23	2068	542	34	1321
Car-coupling	J. T. Hammick	345,501	July 13	980	248	36	182
Car-coupling	J. T. Hammick	348,739	Sept. 7	278	74	36	1099
Car-coupling	I. Hammond	340,209	Apr. 20	1595	404	35	297
Car-coupling	J. W. Harrell	352,240	Nov. 9	757	202	37	605
Car-coupling	J. H. Harrington	337,150	Mar. 2	358	93	34	992
Car-coupling	S. H. Harrington	350,486	Oct. 12	545	151 152	37	108
Car-coupling	D. M. Harris	334,169	Jan. 12	948	256 257	34	183
Car-coupling	C. R. Harris	350,244	Oct. 5	201	57	37	42
Car-coupling	O. C. Harris	345,504	July 13	985	249	36	183
Car-coupling	J. Harrison, O. Huntress, and A. S. Lewis.	347,035	Aug. 10	764	203	36	613
Car-coupling	R. F. Haught and J. J. Fisher	338,965	Mar. 30	2849	751	34	1466
Car coupling	N. W. Hawkenson	334,863	Jan. 26	1917	510	34	376
Car-coupling	J. H. Hayes	346,101	July 27	1850	478	36	355
Car-coupling	J. Henze, Jr	338,908	Mar. 30	2852	752 753	34	1467
Car-coupling	P. O. Hipp	348,559	Sept. 7	23	7	36	1052
Car-coupling	H. C. Hornish	355,083	Dec. 28	2075	545	37	1413
Car-coupling	L. A. Houghtaling	342,797	June 1	31	9	35	1012
Car-coupling	S. G. Howe	346,370	July 27	2229	572	36	427
Car-coupling	S. G. Howe	350,745	Oct. 12	908	243 244	37	172
Car-coupling	M. R. Hubbell	344,780	June 29	2832	734	35	1532
Car-coupling	W. H. Hughes	341,010	May 4	53	13	35	515
Car-coupling	G. H. Huttenlocher	346,107	July 27	1859	480	36	356
Car-coupling	F. P. Hynds	346,409	July 27	2290	588	36	438
Car-coupling	C. M. Ingersoll	336,322	Feb. 16	1785	467	34	720
Car-coupling	J. W. Jackson	339,782	Apr. 13	1002	247	35	183
Car-coupling	T. Jamison	344,316	June 22	2201	566	35	1428
Car-coupling	W. R. Jenkins, Jr	350,746	Oct. 12	909	244	37	172
Car-coupling	J. W. Johnson	339,659	Apr. 13	829	204	35	153
Car-coupling	W. Johnston	350,060	Sept. 28	2095	542	36	1462
Car-coupling	H. W. Johnstone	343,712	June 15	1392	347	35	1272
Car-coupling	H. W. Johnstone	344,658	June 29	2669	692	35	1523
Car-coupling	H. W. Johnstone	349,652	Sept. 21	1511	392	36	1346
Car-coupling	R. Jones	342,517	May 25	2169	574	35	930
Car-coupling	R. Jones	350,061	Sept. 28	2097	542	36	1463
Car-coupling	R. Jones	350,062	Sept. 28	2098	543	36	1463
Car-coupling	R. Jones	354,553	Dec. 21	1316	549	37	1260
Car-coupling	S. Jones	346,551	Aug. 3	128	34	35	484
Car-coupling	H. A. Jukes	355,174	Dec. 28	2210	583	37	1440
Car-coupling	W. H. Kaltenbeck	354,321	Dec. 14	993	264	37	1194
Car-coupling	M. Kay	344,320	June 22	2156	552	35	1420
Car-coupling	C. Keeler	337,958	Mar. 16	1453	377	34	1200
Car-coupling	W. H. Keen	353,565	Nov. 30	2589	691	37	976
Car-coupling	H. Kees	355,175	Dec. 28	2210	583	37	1440
Car-coupling	G. Keesy	343,638	June 15	1267	319	35	1250
Car-coupling	F. N. Kelsey	344,382	June 29	2301	593	35	1454
Car-coupling	J. J. Kennelly	342,608	May 25	2 92	606	35	954
Car-coupling	L. B. Kenney	334,388	Jan. 12	1263	341	34	242
Car-coupling	M. H. Kern	345,308	July 13	707	178 179	36	133
Car-coupling	M. H. Kern	349,848	Sept. 28	1813	468 469	36	1409
Car-coupling	J. P. Ketteringham	351,516	Oct. 26	2048	531	37	393
Car-coupling	S. A. Kilmer and E. J. Crandell	348,747	Sept. 7	288	77	36	1101
Car-coupling	S. D. King	351,381	Oct. 26	1816	477	37	351
Car-coupling	I. Kling	349,655	Sept. 21	1517	392	36	1347
Car-coupling	A. La Rue	345,977	July 20	1685	435	36	316
Car-coupling	J. J. Largent	337,508	Mar. 9	870	221	34	1068
Car-coupling	G. Larmay	345,152	July 6	492	126	36	89
Car-coupling	E. Latham	353,146	Nov. 23	1984	531	37	855
Car-coupling	T. F. Lawson and T. Bailey	344,387	June 29	2307	595	35	1454
Car-coupling	G. H. Lipe	340,447	Apr. 20	1924	495	35	358
Car-coupling	D. Lippy	349,736	Sept. 28	1644	424	36	1375
Car-coupling	W. B. Little	342,967	June 1	270	70	35	1055
Car-coupling	C. M. Littleton	337,598	Mar. 9	978	251	34	1100
Car-coupling	J. Locher	349,805	Sept. 28	1751	451 452	36	1395
Car-coupling	S. D. Locke	351,385	Oct. 26	1828	480	37	353
Car-coupling	M. J. Lorraine	341,026	May 4	69	19	35	518
Car-coupling	M. J. Lorraine	341,027	May 4	72	20	35	519
Car-coupling	M. J. Lorraine	353,320	Nov. 30	2226	596	37	907
Car-coupling	L. Macy	350,756	Oct. 12	921	249	37	175
Car-coupling	M. Maher	347,001	Aug. 10	708	187	36	604
Car-coupling	J. W. Marden and R. H. Littlefield	335,944	Feb. 9	1213	322	34	665

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Car-coupling	C. E. Mark. (Reissue)	10,702	Mar. 23	2456	648	34	1388
Car-coupling	C. E. Mark. (Reissue)	10,782	Nov. 16	1630	437 438	37	780
Car-coupling	F. L. Mark	353,150	Nov. 23	1990	532	37	856
Car-coupling	A. M. Marley	349,853	Sept. 28	1819	470	36	1410
Car-coupling	E. L. Matteson	334,962	Jan. 26	2039	544	34	398
Car-coupling	P. McAleer and J. K. Johnston	339,568	Apr. 6	675	165	35	152
Car-coupling	J. C. F. McCauley	337,847	Mar. 16	1297	337	34	1171
Car-coupling	J. C. F. McCauley	341,492	May 11	723	194	35	646
Car-coupling	W. McConway	350,011	Sept. 28	2028	523 524	36	1449
Car-coupling	J. H. B. McCray	347,121	Aug. 10	892	236	36	637
Car-coupling	J. McCree	348,567	Sept. 7	46	13	36	1056
Car-coupling	T. McGrath	349,443	Sept. 21	1244	322	36	1291
Car-coupling	T. L. McKeen and J. W. Gaumer	342,703	May 25	2429	645	35	980
Car-coupling	G. C. McKitterick, T. R. Morgans, and J. J. McKitterick.	354,335	Dec. 14	1014	269	37	1198
Car-coupling	J. T. Melson	349,050	Sept. 14	708	181	36	1180
Car-coupling	L. Merrill	340,235	Apr. 20	1634	414	35	304
Car-coupling	C. E. Michaud	346,976	Aug. 10	627	169	36	589
Car-coupling	B. J. Miles and M. Dunne	347,006	Aug. 10	722	191	36	606
Car-coupling	F. Miller	342,028	May 18	1447	388	35	793
Car-coupling	J. Miller	344,127	June 22	1943	496	35	1381
Car-coupling	C. W. Mills	336,422	Feb. 16	1920	503	34	796
Car-coupling	W. S. Miner and R. F. Fore	342,625	May 25	2318	612	35	959
Car-coupling	I. Mitchell	349,400	Sept. 21	1185	307	36	1280
Car-coupling	J. C. Mitchell	343,473	June 8	1046	260	35	1203
Car-coupling	W. A. Mitchell	350,836	Oct. 12	1045	279	37	198
Car-coupling	W. Mlicko	350,363	Oct. 5	372	107	37	75
Car-coupling	W. H. Moore	341,158	May 4	257	74	35	552
Car-coupling	J. F. Moorman	335,611	Feb. 9	737	196	34	579
Car-coupling	B. B. Morgan	342,705	May 25	2431	646	35	980
Car-coupling	J. C. Mowry	343,722	June 15	1405	350	35	1274
Car-coupling	C. L. Mueller	337,780	Mar. 9	1201	312	34	1147
Car-coupling	J. A. Murray	339,110	Mar. 30	3074	813	34	1503
Car-coupling	S. C. Murray	342,376	May 25	1962	518	35	894
Car-coupling	J. Myers and S. L. Morrison	339,575	Apr. 6	709	173	35	124
Car-coupling	L. T. Nichols	339,071	Mar. 30	3013	796	34	1492
Car-coupling	J. B. Nixon	353,404	Dec. 7	212	56, 57	37	1046
Car-coupling	F. S. C. Norris	343,466	June 8	1060	264 265	35	1206
Car-coupling	P. J. Norton	342,262	May 18	1764	468	35	852
Car-coupling	J. O'Riordan	335,381	Feb. 2	413	106	34	516
Car-coupling	D. O'Rourke	336,736	Feb. 23	2354	616	34	880
Car-coupling	L. Oberlander	351,123	Oct. 19	1463	383	37	280
Car-coupling	E. K. Ophelan	354,575	Dec. 21	1348	357	37	1266
Car-coupling	W. H. Ott and E. R. McKinzy	342,381	May 25	1967	519	35	895
Car-coupling	N. K. Parks	343,488	June 8	1062	265	35	1206
Car-coupling	F. W. Parsons	352,566	Nov. 16	1169	315	37	691
Car-coupling	J. S. Peacock	346,171	July 27	1952	503 504	36	374
Car-coupling	H. L. Peck	346,559	Aug. 3	136	37	36	486
Car-coupling	E. F. Pendexter	341,684	May 11	1000	264	35	701
Car-coupling	R. Perry	352,569	Nov. 16	1173	316	37	692
Car-coupling	M. Pettet	336,259	Feb. 16	1698	442	34	753
Car-coupling	M. Pettet and S. Noxon	336,260	Feb. 16	1699	443	34	754
Car-coupling	A. W. Phillips	351,399	Oct. 26	1878	489	37	360
Car-coupling	M. M. Pittman	352,349	Nov. 9	901	241	37	632
Car-coupling	J. H. Pollard	347,511	Aug. 17	1450	385	36	748
Car-coupling	R. Powell	334,804	Jan. 26	1843	491	34	364
Car-coupling	W. Powell	338,297	Mar. 23	1910	503	34	1294
Car-coupling	R. Pyle	349,261	Sept. 14	992	253	36	1235
Car-coupling	L. Quisenberry	345,319	July 13	722	183	36	137
Car-coupling	W. V. Reed	351,794	Nov. 2	91	25	37	475
Car-coupling	M. M. Requa	352,264	Nov. 9	789	211	37	611
Car-coupling	W. J. Rhodes	346,684	Aug. 3	292	80	36	518
Car-coupling	D. L. Richards	352,661	Nov. 16	1304	351	37	716
Car-coupling	J. D. Ripson	336,530	Feb. 16	2065	542 543	34	821
Car-coupling	J. D. Ripson	341,857	May 11	1217	326	35	743
Car-coupling	T. L. Rivers	339,475	Apr. 6	524	127	35	97
Car-coupling	C. Rivett and R. L. Macfarlane	341,508	May 11	743	200	35	651
Car-coupling	G. O. and M. Ross	340,056	Apr. 27	2632	694	35	490
Car-coupling	F. E. Rousseau, H. B. Goodale, and M. Côté.	336,950	Mar. 2	91	25	34	943
Car-coupling	J. W. Rykard	340,525	Apr. 20	2041	524 525	35	379
Car-coupling	J. L. Safford	342,639	May 25	2335	617	35	963
Car-coupling	B. F. Sanders	350,946	Oct. 19	1192	317	37	231
Car-coupling	E. O. Sawyer	344,599	June 29	2594	672	35	1508
Car-coupling	J. L. Schoenberger	348,243	Aug. 31	2527	679	36	961
Car-coupling	F. J. Schupp	348,061	Aug. 24	2256	603	36	906
Car-coupling	C. E. Seabury	353,826	Dec. 7	244	65	37	1051
Car-coupling	E. G. Sessions	338,107	Mar. 16	1664	433	34	1239
Car-coupling	E. G. Sessions	353,974	Dec. 7	473	129	37	1093
Car-coupling	J. L. Setty	340,735	Apr. 27	2347	618	35	438
Car-coupling	O. Shafer and J. Strasin	348,725	Sept. 7	334	90	36	1110
Car-coupling	J. Shank	347,449	Mar. 9	795	202	34	1076
Car-coupling	W. Sheridon	350,998	Oct. 19	1300	341	37	250
Car-coupling	A. J. Shipman	350,775	Oct. 12	947	255	37	180
Car-coupling	Z. B. Shropshire and A. J. Berryhill	338,108	Mar. 16	1665	433	34	1239
Car-coupling	S. Shull	353,977	Dec. 7	478	130	37	1093
Car-coupling	J. G. Slater	340,681	Apr. 27	2265	597	35	424
Car-coupling	J. G. Slater	352,581	Nov. 16	1188	321	37	695

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Car-coupling	B. W. Smith	352,582	Nov. 16	1189	322	37	695
Car-coupling	T. H. and E. V. Snyder	347,208	Aug. 10	1010	269	36	659
Car-coupling	N. Solcer	344,290	June 22	2173	556	35	1423
Car-coupling	M. Spelman	343,086	June 1	441	112	35	1087
Car-coupling	H. A. Springer	350,275	Oct. 5	240	70	37	50
Car-coupling	F. H. Stanford	343,740	June 15	1428	356	35	1279
Car-coupling	A. H. Stephens	340,897	Apr. 27	2557	673	35	476
Car-coupling	J. B. Stone and J. Pennington	350,399	Oct. 5	390	112	37	78
Car-coupling	J. A. Storms and T. A. Arnold	336,871	Feb. 23	2528	667	34	912
Car-coupling	B. W. Sweet	345,262	July 6	638	162	36	116
Car-coupling	B. W. Sweet	349,824	Sept. 28	1780	460	36	1402
Car-coupling	T. W. Talbot and J. L. Farmer	346,329	July 27	2178	559	36	417
Car-coupling	C. H. Terry	339,711	Apr. 13	906	223	35	166
Car-coupling	C. Thayer	348,660	Aug. 17	1682	448	36	792
Car-coupling	J. W. Thomason	339,498	Apr. 6	552	134	35	102
Car-coupling	J. J. Throckmorton	350,959	Oct. 19	1211	321	37	235
Car-coupling	P. Thrush and D. W. Aura	344,693	June 29	2711	704	35	1530
Car-coupling	W. H. Thurmond	350,645	Oct. 13	777	212	37	148
Car-coupling	W. H. Thurmond	350,785	Oct. 12	962	258 250	37	183
Car-coupling	I. Tillson	344,420	June 29	2354	606	35	1463
Car-coupling	A. N. Towne	353,518	Nov. 30	2517	671	37	962
Car-coupling	A. N. Towne	353,519	Nov. 30	2518	672	37	962
Car-coupling	C. R. Tunks	340,529	Apr. 20	2045	526	35	380
Car-coupling	J. A. Turley	336,875	Feb. 23	2544	670	34	915
Car-coupling	A. W. Van Dorston	341,292	May 4	460	125	35	589
Car-coupling	F. Vaughan	352,791	Nov. 16	1474	398	37	749
Car-coupling	G. M. Veteto	337,096	Mar. 2	285	75	34	979
Car-coupling	H. Wallace	340,261	Apr. 20	1677	426	35	311
Car-coupling	G. J. Walton	347,537	Aug. 17	1486	394	36	755
Car-coupling	G. L. Walton	349,543	Sept. 21	1380	358	36	1319
Car-coupling	H. C. Webb and J. A. Kellogg	348,363	Aug. 31	2675	721	36	992
Car-coupling	F. A. Westbrook and W. S. Cook	342,658	May 25	2355	622	35	966
Car-coupling	F. A. Westbrook and W. S. Cook	346,791	Aug. 3	417	115	36	542
Car-coupling	C. H. and G. D. Westover	337,540	Mar. 9	910	232	34	1006
Car-coupling	G. F. White	349,866	Sept. 28	1832	473	36	1413
Car-coupling	J. M. White	345,560	July 13	1090	278	36	202
Car-coupling	J. D. Whitehead	345,349	July 13	764	192	36	143
Car-coupling	J. F. Williams and B. F. Dewert	342,276	May 18	1788	473	35	856
Car-coupling	J. H. Williams	334,503	Jan. 19	1431	385	34	279
Car-coupling	T. J. Williams	350,178	Oct. 5	116	33	37	24
Car-coupling	W. E. Williams	347,409	Aug. 17	1303	347 348	36	722
Car-coupling	J. P. Wilson	352,104	Nov. 2	544	144	37	560
Car-coupling	J. T. Wilson	336,778	Feb. 23	2412	634	34	891
Car-coupling	J. T. Wilson	341,711	May 11	1033	274	35	768
Car-coupling	S. C. Wilson	339,122	Mar. 30	3088	817	34	1505
Car-coupling	W. T. Wilson	349,555	Sept. 21	1395	361	36	1321
Car-coupling	F. Windler	333,986	Jan. 5	671	184	34	126
Car-coupling	F. Windler	336,029	Feb. 9	1325	350	34	684
Car-coupling	O. O. Winter	345,609	July 13	1151	294	36	213
Car-coupling	A. Wood and M. S. Drake	350,518	Oct. 12	589	163	37	114
Car-coupling	W. D. Woodward	347,547	Aug. 17	1502	398	36	758
Car-coupling	C. D. Wooley	346,630	Aug. 3	232	64	36	505
Car-coupling	J. T. Wroe and T. R. Hall	346,975	Aug. 10	678	180	36	598
Car-coupling	F. Yeiser	339,509	Apr. 6	573	137	35	105
Car-coupling	D. Zeigler	346,881	Aug. 3	545	148	36	566
Car-coupling	D. Zeigler	346,882	Aug. 3	546	148	36	566
Car-coupling. Automatic	J. D. Majors	351,332	Oct. 19	1741	458	37	330
Car-coupling. Automatic	J. S. Smith and M. H. Motes	348,479	Aug. 31	2851	767	36	1025
Car-coupling link	F. W. Parsons	348,575	Sept. 7	59	17	36	1058
Car-coupling link	F. W. Parsons	352,147	Nov. 9	626	166	37	582
Car-coupling link	D. Tufts	351,723	Oct. 26	2343	610	37	448
Car-coupling link	J. Warren	342,656	May 25	2353	621	35	966
Car-coupling links. Machine for bending and welding	J. D. Bowman	342,858	June 1	112	28, 29	35	1026
Car-coupling links. Machine for making	J. J. Anderson	350,859	Oct. 12	1076	288	37	203
Car-coupling links. Manufacture of	C. W. Hodgetts	339,412	Apr. 6	426	104 105	35	80
Car-couplings. Link-lifter for	J. H. Huber	354,476	Dec. 14	1194	320	37	1232
Car-cover	W. H. Price	335,718	Feb. 9	889	234	34	606
Car cover. Railway	G. P. Good and R. B. Collier	337,831	Mar. 16	1277	331	34	1168
Car-door	E. Y. Moore	334,452	Jan. 19	1357	368	34	266
Car-door	N. P. Rogers	348,694	Sept. 7	225	59	36	1088
Car-door	H. C. Williamson and F. Pries	335,169	Feb. 2	104	27, 28	34	460
Car-door cleat or fastener. Railway	J. B. Robinson	335,092	Jan. 26	2228	591	34	432
Car-door fastener	G. W. Cushing	337,929	Mar. 16	1408	365	34	1192
Car-door fastener	H. A. Gebret	350,977	Oct. 19	1243	331	37	240
Car-door fastener	F. P. Hanchett	338,519	Mar. 23	2219	582	34	1348
Car-door fastener	H. C. Singiser	346,220	July 27	2031	524	36	390
Car-door fastener and spark-arrester. Box	H. C. Lynch	351,114	Oct. 19	1454	381	37	279
Car door. Freight	J. B. Batt	352,731	Nov. 16	1397	378	37	735
Car door. Freight	P. Brown	335,989	Feb. 9	1269	336	34	674
Car door. Freight	E. Y. Moore	344,746	June 29	2785	721	35	1543
Car-door lock	M. L. Manley	347,185	Aug. 10	982	262	36	654
Car-door lock	R. C. Schenck, Jr	335,778	Feb. 9	981	260	34	623
Car-door lock. Freight	J. Abbott	343,355	June 8	869	219	35	1172
Car-door lock. Freight	A. B. Barnard	334,840	Jan. 26	1886	502	34	371
Car-door lock. Freight	G. J. Burley and A. F. McGlashan	340,934	Apr. 27	2604	686	35	485
Car-door retainer	A. Roelofs	336,019	Feb. 9	1369	347	34	681
Car doors. Adjustable attachment for freight	T. H. Duzan	354,973	Dec. 28	1919	506 507	37	1385
Car-doors. Hanger for	W. Sutton	346,074	July 20	1819	470	36	330
Car-doors. Indicator-lock for	H. A. De La Hooke	340,427	Apr. 20	1896	487	35	353
Car-doors. Latch-lock for	C. H. White	352,213	Nov. 9	722	193	37	59:

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Car draw-bar	J. W. Cole	338,829	Mar. 30	2669	702	34	1432
Car draw-bar	G. H. Poor	341,601	May 11	875	233	35	676
Car-driving mechanism	E. Dederick	354,889	Dec. 28	1805	477	37	1363
Car. Dumping	G. E. Blaine	335,885	Feb. 9	1136	300, 301, 302	34	651
Car. Dumping	S. D. King	336,119	Feb. 16	1466	386	34	716
Car. Dumping	N. Marnell	342,526	May 25	2178	577	35	932
Car. Dumping	J. Scully	347,523	Aug. 17	1465	389	36	751
Car. Dumping	J. J. Souder	343,205	June 8	623	155	35	1129
Car. Dumping	S. B. Spence	355,228	Dec. 28	2292	604	37	1456
Car. Dumping	J. H. R. Talley	352,498	Nov. 9	1080	291	37	668
Car. Express	J. T. Condon	352,858	Nov. 16	1558	421	37	765
Car for removing snow from railways, &c	J. Woolley	349,024	Sept. 14	670	172	36	1173
Car. Freight	J. F. Batchelor	347,553	Aug. 17	1510	401	36	759
Car. Freight	J. R. Gathright	337,828	Mar. 16	1271	330	34	1167
Car. Freight	M. M. Hirsh	340,579	Apr. 27	2125	546, 547, 548	35	401
Car. Freight	A. N. Montcer	347,885	Aug. 24	2002	531	36	858
Car furniture. Railway	R. F. Handy	333,853	Jan. 5	489	132	34	91
Car gate. Railway	T. W. Peeples	347,057	Aug. 10	796	211	36	619
Car grip. Cable	J. J. Endres	349,486	Sept. 21	1303	339	36	1303
Car gripping and braking devices. Mechanism for operating cable	J. J. Endres	347,781	Aug. 24	1848	492	36	830
Car guard. Railway	R. J. Gillham	345,045	July 6	349	88	36	63
Car-heater	W. C. Dunn	343,445	June 8	1001	249, 250	35	1195
Car-heater	E. Hambujer	353,558	Nov. 30	2579	689	37	954
Car-heater	R. Johnson and J. F. Buerkel	354,640	Dec. 21	1457	386	37	1284
Car heater. Railway	C. Turner	340,258	Apr. 20	1673	425	35	311
Car heater. Street	T. Wiseman	353,108	Nov. 23	1926	517	37	843
Car illumination. Electric railway	E. J. Wessels	348,603	Sept. 7	98	28	36	1065
Car lock. Freight	G. J. Bedford	348,715	Sept. 7	249	66, 67	36	1093
Car. Motor	R. N. Allen	337,109	Mar. 2	302	79	34	982
Car-motor	J. S. Connelly	347,470	Aug. 17	1396	372	36	738
Car-motor	J. B. Huston	344,108	June 22	1918	491	35	1377
Car motor and brake	J. F. Morell and D. Goff	338,642	Mar. 23	2383	628	34	1376
Car motor. Street	J. S. Connelly	345,279	July 13	668	169	36	127
Car motor. Street	A. L. Rich	348,416	Aug. 31	2757	749	36	1007
Car-mover	C. L. Barnhart	346,347	July 27	2198	563	36	420
Car. Passenger	B. Price	335,770	Feb. 9	969	256, 257	34	620
Car-platform	F. D. Spalding	354,443	Dec. 14	1148	307	37	1223
Car-platform gates. Device for operating	W. Haslam	340,309	Apr. 20	1743	444	35	324
Car-platform. Safety	J. J. Parker	344,286	June 22	2166	555	35	1421
Car platforms. Safety-door for railway	F. Lappin. (Reissue)	10,709	Apr 6	759	187, 188	35	134
Car-platforms. Safety-gate for	E. L. Tevis	353,898	Dec 7	357	95	37	1072
Car-propelling mechanism. Endless-cable	E. Noble, Jr., and G. F. Branham	348,574	Sept. 7	53	15, 16, 17	36	1057
Car. Railway	E. W. Furrell	340,206	Apr. 20	1592	403	35	297
Car. Railway	A. B. Harris	342,090	May 18	1548	413, 414	35	812
Car. Railway	D. M. Richards and I. Hale	348,058	Aug. 24	2248	601, 602	36	904
Car. Railway	D. W. Riordan and E. J. Martyn	353,884	Dec. 7	337	90	37	1068
Car. Railway	R. H. Wyman	337,106	Mar. 2	296	78	34	981
Car roof. Freight	C. B. Hutchins	343,173	June 8	584	146	35	1121
Car-seat	E. B. Goelet	354,127	Dec. 14	702	187, 188	37	1142
Car-seat	G. Harvey	352,055	Nov. 2	470	127, 128	37	547
Car-seat	J. C. Kafer	344,112	June 22	1925	493	35	1378
Car-seat	J. C. Kafer	344,113	June 22	1926	493	35	1379
Car-seat	C. H. Woodmansee	344,414	June 8	956	238	35	1188
Car seat and berth	E. A. Stanley	354,812	Dec. 21	1694	447	37	1330
Car-seat arm	J. Denver	334,756	Jan. 26	1785	474	34	352
Car-seat recorder	J. K. Bywaters and J. G. Burke	337,305	Mar. 2	572	151	34	1032
Car-seat. Reversible	J. Lemman	334,957	Jan. 26	2032	543	34	397
Car-seat. Reversible	J. M. Sauder	352,268	Nov. 9	797	213	37	612
Car-seats. Means for securing satchels, bags, &c., to	A. C. Kimber	338,846	Mar 30	2687	708	34	1437
Car. Self-loading dumping	A. J. Reynolds	335,623	Feb. 9	753	201	34	582
Car-signal	S. Forman	353,785	Dec. 7	182	50	37	1040
Car. Sleeping	G. Leve. (Reissue)	10,703	Mar. 30	3091	817	34	1506
Car-spring	G. W. Morris	355,197	Dec. 28	2239	591	37	1446
Car-spring	C. T. Schoen	347,647	Aug. 17	1663	441, 442	36	789
Car-spring	R. Vose	333,983	Jan. 5	665	182	34	125
Car-spring	R. Vose	347,281	Aug. 10	1109	297	36	677
Car-spring	R. Vose	348,251	Aug. 31	2537	681	36	963
Car-spring	R. Vose	349,070	Sept. 14	734	187	36	1185
Car-spring	R. Vose	350,174	Oct. 5	109	31	37	23
Car-spring	R. Vose	351,819	Nov. 2	125	35	37	482
Car. Spring dumping	G. E. Blaine	353,531	Nov. 30	2540	677	37	966
Car-starter	R. T. P. Allen	351,559	Oct. 26	2107	546	37	405
Car-starter	S. Baker	353,345	Nov 30	2257	603	37	912
Car-starter	E. Dederick	345,281	July 13	671	170	36	127
Car-starter	C. F. Dodge	334,111	Jan. 12	858	236	34	166
Car-starter	R. O. Gercke	348,732	Sept. 7	269	72	36	1097
Car-starter	G. B. Haines	336,232	Feb. 16	1654	432	34	747
Car-starter	G. B. Haines	352,126	Nov. 9	596	157, 158	37	577

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Car-starter	G. B. Haines	352,127	Nov. 9	598	158	37	577
Car-starter	C. L. N. T. Hansen and C. N. Fischer	342,959	June 1	261	67, 68	35	1053
Car-starter	D. Jennings	350,138	Oct. 5	54	15	37	13
Car-starter	W. H. Johnson	336,922	Mar. 2	55	15	34	936
Car-starter	H. Kells	343,818	June 15	1517	382	35	1296
Car-starter	A. M. Müller and J. S. Rüter	335,472	Feb. 2	530	139	34	536
Car-starter	H. C. Percy	350,989	Oct. 19	1285	337	37	248
Car-starter	B. C. Pole	353,759	Dec. 7	147	40, 41	37	1034
Car-starter	S. Rockafellow	342,846	June 1	99	25	35	1024
Car-starter	N. J. Roberts	348,398	Aug. 31	2521	677	36	960
Car-starter	W. H. Vail	350,220	Oct. 5	176	51	37	36
Car-starter	O. P. Wivel	349,620	Sept. 21	1478	382	36	1339
Car starter and brake	T. and T. Cox, Jr.	350,661	Oct. 12	798	217	37	152
Car starter and brake	J. C. Elliott	335,217	Feb. 2	193	51	34	474
Car starter and brake	E. Hartmann	353,632	Nov. 30	2692	719	37	993
Car starter and brake	S. L. Norris	348,169	Aug. 24	2404	645	36	933
Car starter and brake	C. A. Shank	352,782	Nov. 16	1459	363	37	747
Car starter and brake	J. W. and G. R. Strickle	343,144	June 1	532	135, 136	35	1103
Car-step	F. E. Elliott	338,048	Mar. 16	1577	411	34	1222
Car. Stock-	G. D. Burton	335,109	Feb. 2	12	4	34	443
Car. Stock-	G. D. Burton	337,240	Mar. 2	478	126	34	1014
Car. Stock-	G. D. Burton	348,886	Sept. 7	472	125	36	1134
Car. Stock-	C. L. Gorrell	333,747	Jan. 5	349	94, 95	34	65
Car. Stock-	G. Grossman	337,323	Mar. 2	596	156, 157	34	1036
Car. Stock-	G. Grossman	340,946	Apr. 27	2622	660	35	488
Car. Stock-	B. C. Hicks	338,743	Mar. 30	2549	673	34	1411
Car. Stock-	B. C. Hicks	344,044	June 22	1825	468	35	1359
Car. Stock-	B. C. Hicks	344,833	July 6	41	10	36	9
Car. Stock-	H. C. Hicks	338,741	Mar. 30	2546	672, 673	34	1410
Car. Stock-	H. C. Hicks	338,742	Mar 30	2548	673	34	1411
Car. Stock-	H. C. Hicks	344,045	June 22	1826	469	35	1360
Car. Stock-	B. F. Holmes	343,956	June 15	1694	434	35	1330
Car. Stock-	B. F. Holmes	346,439	July 27	2337	601	36	446
Car. Stock-	R. E. Ismond	354,552	Dec. 21	1314	349	37	1260
Car. Stock-	J. Jeppesen	343,711	June 15	1391	347	35	1272
Car. Stock-	A. J. Moorshead and W. P. Bixby	347,632	Aug. 17	1643	435, 436	36	785
Car. Stock-	O. Newell	355,277	Dec. 23	2357	620	37	1469
Car. Stock-	J. E. Pierce and D. C. Pryor	345,601	July 13	1143	292	36	211
Car. Stock-	G. A. Smith	353,982	Dec. 7	483	132	37	1094
Car. Stock-	G. A. Smith and J. G. Van Orman	353,983	Dec. 7	484	132	37	1095
Car. Stock-	J. W. Street	336,872	Feb. 23	2730	667, 668	34	913
Car. Stock-	J. H. Wickes	336,776	Feb. 23	2409	633	34	891
Car. Stock-	B. F. Williams	352,620	Nov. 2	424	114	37	536
Car. Street-	A. V. Lecy	344,591	Jan. 19	1553	415	34	901
Car. Street-	W. H. Nelson	353,878	Dec. 7	323	84	37	1066
Car. Street-	B. M. Rawlings and C. A. Williamson.	337,617	Mar. 9	1001	257	34	1113
Car. Street-railway	J. C. Brown	354,037	Dec. 7	561	152	37	1108
Car. Tram-	J. Menzies	350,263	Oct. 5	221	64, 65	37	46
Car-truck	M. Brill	339,016	Mar. 30	2975	787	34	1487
Car-truck	G. M. Brill and J. Rawle	339,046	Mar. 30	2973	787	34	1486
Car-ventilator	J. W. Emert and R. Hill	342,006	May 18	1405	375	35	784
Car-ventilator	A. B. Harris	346,046	July 20	1777	457	36	330
Car-ventilator	T. B. Howe	342,099	May 18	1559	417	35	814
Car ventilator. Railway-	A. B. Harris	335,449	Feb. 2	502	131	34	531
Car-ventilators. Automatic air-pressure regulator for	H. E. Jacobs	350,309	Oct. 5	278	79	37	57
Car-wheel	R. N. Allen	351,481	Oct. 26	2001	520	37	384
Car-wheel	J. C. Beach	339,613	Apr. 13	763	189	35	141
Car-wheel	J. C. Beach	342,169	May 18	1643	439	35	830
Car-wheel	J. C. Beach	342,170	May 18	1644	439	35	830
Car-wheel	J. J. Billingsley	349,977	Sept. 28	1983	512	36	1441
Car-wheel	N. P. Bowler	350,107	Oct. 5	16	5	37	6
Car-wheel	L. R. Brooks	353,918	Dec. 7	387	102	37	1078
Car-wheel	F. M. Davis	340,986	May 4	23	7	35	509
Car-wheel	J. G. Hill	350,133	Oct. 5	47	13	37	12
Car-wheel	S. Jacobs	336,050	Feb. 9	1357	359	34	690
Car-wheel	G. W. Miltimore	347,950	Aug. 24	2105	561	36	877
Car-wheel	E. Peckham and E. Laass	354,214	Dec. 14	835	221	37	1166
Car-wheel	E. R. Procter	347,735	Aug. 17	1779	474	36	809
Car-wheel	J. K. Sax	344,547	June 29	2532	654	35	1495
Car-wheel	N. Washburn	351,232	Oct. 19	1610	422	37	308
Car-wheel	W. J. Willits and E. B. Linsley	340,845	Apr. 27	2487	655	35	464
Car-wheel and axle	P. Cool	344,768	June 29	2811	728	35	1547
Car wheel and axle	W. Malam	347,119	Aug. 10	889	235	36	637
Car wheel and axle	H. H. Watson	342,657	May 25	2353	621	35	966
Car-wheel. Cast-steel	H. W. Fowler	351,431	Oct. 26	1920	500	37	368
Car-wheel fender. Railway-	A. L. Clarke	339,867	Apr. 13	1099	273	35	201
Car-wheel lathe	J. R. Williams	334,832	Jan. 26	1875	499	34	369
Car-wheel lathes. Gaging device for	J. K. Cullen and J. W. See	344,083	June 22	1884	483	35	1371
Car-wheel lubricator	P. F. White	336,461	Feb. 16	1977	518	34	805
Car-wheel. Self-lubricating	O. Barker	338,694	Mar. 30	2468	651	34	1397
Car-wheel-truing machine	M. E. Dayton	334,647	Jan. 19	1633	435, 436, 437	34	316
Car-wheels and other bodies. Machine for dressing and hardening	G. W. Miltimore	347,949	Aug. 24	2100	559, 560, 561	36	876
Car-wheels. Machine for dressing	G. W. Miltimore	347,951	Aug. 24	2107	561, 562	36	877

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Car-wheels. Machine for rolling	T. W. Bean	337,230	Mar. 2	465	121	34	1012
Car-wheels. Machine for rolling	H. W. Fowler	351,430	Oct. 26	1917	499 500	37	367
Car-wheels. Test-gage for setting	R. Kells	340,883	Apr. 27	2539	668	35	473
Car-window	J. M. Fennerty	333,620	Jan. 5	161	43, 44	34	32
Car-window lock	M. A. Cutter	350,418	Oct. 5	417	120	37	82
Cars. Apparatus for distributing coal in	R. Ramsay	344,595	June 29	2588	670 671	35	1507
Cars. Apparatus for dumping coal	S. A. Barnes and W. Laws	339,838	Apr. 13	1074	267	35	197
Cars. Apparatus for indicating the load on railway	D. H. Warren	336,457	Feb. 16	1972	517	34	804
Cars, &c. Apparatus for lighting and heating railway	R. H. Plass	353,499	Nov. 30	2488	665	37	956
Cars. Apparatus for removing and replacing the wheels and axles of railway	H. Sym	352,587	Nov. 16	1197	324	37	697
Cars. Apparatus for stopping	R. Ramsay	348,773	Sept. 7	321	85	36	1107
Cars. Automatic brake for railway	H. K. Whitner	338,213	Mar. 16	1796	469	34	1265
Cars. Automatic brake for railway	H. K. Whitner	354,077	Dec. 7	614	169	37	1119
Cars. Brake-handle for street	F. B. Brownell	350,525	Oct. 12	596	165	37	115
Cars. Brake-pawl for railway	G. H. Griggs	353,259	Nov. 23	2132	573	37	884
Cars by compressed air. Propulsion of	J. M. Thompson and F. Jones	352,985	Nov. 23	1741	466	37	808
Cars by electricity. System of lighting	J. H. Marshall	353,797	Dec. 7	201	54	37	1044
Cars by gas-motors. Propelling	J. A. Wetmore	348,080	Aug. 24	2284	612	36	911
Cars. Cable-traction for street	O. H. Jadwin	340,320	Apr. 20	1758	448 449	35	327
Cars. Chair-fitting for drawing-room	G. Leve	347,758	Aug. 17	1810	482	36	815
Cars. Device for controlling the motive power and brakes of power-driven	E. Samuel	336,751	Feb. 23	2373	621 622	34	883
Cars, &c. Device for controlling the opening of locks on railway	R. L. Baca and J. L. Leavitt	345,473	July 13	940	237	36	174
Cars. Device for moving	E. P. Weaver	336,609	Feb. 23	2175	568	34	846
Cars. Device for operating street	M. C. Tully	343,211	June 8	634	158	35	1131
Cars. Door for combination	C. W. and C. C. James	344,276	June 22	2147	550 551	35	1418
Cars. Draw-bar for railway	C. E. McIntosh	341,932	May 18	1323	353	35	770
Cars. Draw-hook for street	A. Rapp	351,793	Nov. 2	90	25	37	475
Cars. Draw-iron for street	J. H. Whiteley	342,662	May 25	2361	623	35	967
Cars. Driving mechanism for street	N. Rogers	350,017	Sept. 28	2035	225 226	36	1450
Cars. Driving mechanism for suspended	J. A. Enos	342,246	May 18	1738	461 462	35	847
Cars. Dumping device for mining	W. J. Renniman	347,151	Aug. 10	936	249	36	645
Cars. Dust-guard for railway	J. C. Slafter and A. C. Clausen	337,999	Mar. 16	1519	393	34	1211
Cars. Fanning device for railway	R. W. Macgowan	333,767	Jan. 5	371	101	34	70
Cars for cable railways. Grip for	T. Wright	342,312	May 18	1552	490	35	867
Cars for track-laying. Construction of	W. N. Emmons	350,236	Oct. 5	193	55	37	40
Cars. Grain-door attachment for railway	T. Hoadley	341,910	May 18	1298	347	35	766
Cars. Grip for cable	J. J. Endres	347,783	Aug. 24	1850	493	36	831
Cars. Grip for cable-motor	H. B. Whittaker	341,528	May 11	773	207 208	35	656
Cars. Grip for traction	J. S. Lake	354,479	Dec. 14	1198	320	37	1232
Cars. Gripping device for cable	G. H. Dodge	340,034	Apr. 13	1342	336	35	245
Cars. Gripping mechanism for cable-railway	R. Solano	344,057	June 22	1841	472 473	35	1363
Cars. Heating apparatus for railway	W. C. Baker	353,839	Dec. 7	264	71	37	1055
Cars. Lamp-door latch for	J. Stephenson	336,170	Feb. 16	1551	409	34	729
Cars. Mechanism for driving hand	F. E. Canda	344,163	June 22	1992	510	35	1390
Cars. Pedestal and axle-box for	D. McAllister	350,010	Sept. 28	2027	523	36	1449
Cars. Pilot and guard for railway	G. W. French	354,831	Dec. 21	1720	455	37	1335
Cars. Platform-gate for railway	J. P. Harrison	339,171	Apr. 6	73	21, 22	35	16
Cars. Registering-door for street	H. B. Comer	343,229	June 8	660	164	35	1135
Cars. Safety attachment for railway	G. Marston	346,762	Aug. 3	385	106	36	536
Cars. Safety device for cable	A. Van Wagenen and L. Goddu	342,273	May 18	1785	473	35	856
Cars. Sand-box for tram	L. D. Cammann	345,768	July 20	1401	363	36	264
Cars. Sign and advertising board for street	G. M. Brill and J. Rawle	353,284	Nov. 30	2174	582	37	898
Cars. Smoke and cinder deflector for	C. T. Luthy	350,888	Oct. 12	1113	296	37	210
Cars. Sprag for mining	J. J. Newbaker	352,882	Nov. 16	1596	430	37	773
Cars. Station-indicator for	J. W. Currie	343,760	June 15	1449	362	35	1283
Cars. Steam-pipe connection between railway	J. R. Drodzewski	348,664	Sept. 7	182	49	36	1079
Cars. Street-indicator for	T. Beaver and W. G. Jewitt	334,331	Jan. 12	1194	321	34	250
Cars. Street-indicator for street-railway	H. I. Jeffers	344,047	June 22	1828	469	35	1360
Cars, &c., to denote the number of passengers and the distance and time ridden. Recorder for	J. Bisset, Jr	347,153	Aug. 10	938	250	36	646
Cars. Track-gripping device for railway	L. B. White	350,090	Sept. 28	2136	552	36	1470
Cars. Track-sanding apparatus for street	W. T. Butler	336,891	Mar. 2	9	3	34	928
Cars. Track-sanding apparatus for street	W. T. Butler and G. H. Hathaway	342,729	May 25	2468	654	35	1987
Cars. Ventilating	C. E. Lucas	338,850	Mar. 30	2692	709	34	1438
Cars. Ventilating freight	A. Miller	344,848	July 6	71	18	36	13
Cars. Wash-bowl and pump for sleeping	H. C. Hart	335,922	Feb. 9	1185	315	34	660
Cars. Water-tank for cattle	F. E. Canda	344,162	June 22	1991	509	35	1390
Cars with gas. Apparatus for heating railway	J. Pintsch	336,585	Feb. 23	2141	561 562	34	841
Carbon battery. Spongy	E. Berliner	347,023	Aug. 10	746	199	36	610
Carbon-black. Apparatus for manufacturing	J. T. Dysart	343,446	June 8	1002	250	35	196
Carbon-black. Manufacturing	J. J. McTighe	346,169	July 27	1950	503	36	374
Carbon conductors. Manufacture of	T. A. Edison	354,310	Dec. 14	976	259	37	1191
Carbon from hydrocarbon vapor. Apparatus for producing hard	J. J. McTighe	338,605	Mar. 23	2330	610	34	1367
Carbon. Manufacture of hard	J. J. McTighe	338,542	Mar. 23	2246	590	34	1353
Carbons. Apparatus for making	J. T. Lister	347,247	Aug. 10	1060	284 285	36	668
Carbons. Apparatus for treating	E. Weston	334,146	Jan. 12	906	248	34	176
Carbonizing-mold	T. A. Edison	334,853	Jan. 26	1904	507	34	374
Carbureting air or gas. Apparatus for	C. B. Dudley	342,863	June 1	123	31	35	1029

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Carbureting and mixing gas and air. Method of and apparatus for	G. R. Cottrell	349,211	Sept. 14	921	237	36	1221
Carbureting apparatus. Gas-	W. F. H. O'Keefe	346,940	Aug. 10	633	170	36	590
Carbureting attachment for gas-fixtures	J. Kidd	333,862	Jan. 5	498	136	34	93
Carbureting compound	F. W. Burk	346,803	Aug. 3	430		36	544
Carbureting gas. Apparatus for	J. S. Tibbets	347,663	Aug. 17	1686	449	36	793
Carbureting-lamp	J. E. Dery	334,851	Jan. 26	1898	506	34	373
Carburetor	A. J. English	333,508	Jan. 5	17	6	34	6
Carburetor	P. Keller	353,311	Nov. 30	2213	593	37	905
Carburetor	R. S. Lawrence	340,221	Apr. 20	1614	408	35	301
Carburetor	R. S. Lawrence	342,445	May 25	2056	542	35	911
Carburetor	J. D. Merritt	350,382	Oct. 5	371	106, 107	37	74
Carburetor	W. H. O'Connor	354,574	Dec. 21	1346	357	37	1265
Carburetor	C. H. Wolford	341,299	May 4	470	127	35	590
Carburetor for Argand gas-burners	F. B. Strunz	350,901	Oct. 12	1135	302	37	214
Carburetor. Natural-gas	W. Herlehy, J. O. and F. McGinnis	339,177	Apr. 6	80	24	35	17
Carburetor to be used in the manufacture of water-gas	F. C. Kniese	348,917	Sept. 7	517	137	36	1142
Card-cutting machine	W. A. Kelsey	337,270	Mar. 2	519	135	34	1022
Card. Fancy show-	C. Kernitz	354,152	Dec. 14	747	200	37	1149
Card-feeding mechanism, &c. Endless metallic apron for	W. C. Bramwell	342,942	June 1	248	64	35	1051
Card for business and other purposes. Wooden	R. B. Hough	335,703	Feb. 9	868	229	34	602
Card for playing games	H. C. Kirk	354,424	Dec. 14	1119	301	37	1218
Card. Game-	F. D. Owen	347,192	Aug. 10	992	265	36	656
Card or picture holder	J. W. Palmer	353,583	Nov. 30	2608	696	37	979
Card or print hanger	A. H. Stetson. (Reissue)	10,739	June 22	2221	574	35	1434
Card or sheet transferring apparatus	T. M. Kenney	335,204	Feb. 2	165	42	34	471
Card. Ornamental	H. C. Bainbridge	351,037	Oct. 19	1349	354	37	259
Card. Playing-	G. M. Endicott	337,755	Mar. 9	1168	304	34	1142
Card. Playing-	E. J. Levey	339,066	Mar. 30	3007	795	34	1492
Card-rack	H. A. Bickford	342,316	May 25	1869	495	35	879
Card-receiver. Outside	A. Moore	343,050	June 1	390	99	35	1077
Card. Sample-	E. Drakenfeld	343,704	June 15	1364	341	35	1267
Card-setting machine	S. Midgley	348,529	Aug. 31	2924	786	36	1038
Card. Show-	J. Thoubboron	347,534	Aug. 17	1481	393	36	754
Card. Visiting or fancy	F. C. Lounsbury	345,158	July 6	499	127	36	91
Cards and card-board. Machine for beveling the edges of	A. H. Postel	343,337	June 8	832	209, 210	35	1164
Cards. Automatic grinder for woolen and cotton	J. C. Wall	347,847	Aug. 24	1945	516	36	849
Cards. Machine for trimming and beveling the edges of	P. Lorillard, Jr., and O. S. Harmon	349,351	Sept. 21	1098	280, 281	36	1264
Cards, &c. Ornamentation of	P. Hake and F. Oechsli	338,955	Mar. 30	2840	749	34	1465
Cards, &c. Suspension device for express-	C. G. Pfingsten	354,071	Dec. 7	608	167	37	1117
Carding-cylinders. Apparatus for winding toothed wire on	J. K. Proctor and J. H. Knowles	347,736	Aug. 17	1780	474, 475	36	809
Carding-engine	J. A. Bradshaw	341,443	May 11	659	178	35	634
Carding-engine	C. L. Harmon	339,097	Mar. 30	3056	809	34	1500
Carding-engine	E. A. Leigh	335,760	Feb. 9	948	250, 251	34	617
Carding-engine	D. M. Thompson	347,662	Aug. 17	1685	448, 449	36	792
Carding-engines. Card-clothing for	J. T. Fallows	339,394	Apr. 6	403	98	35	75
Carding horse-hair. Machine for	L. Zaller	342,945	June 1	245	63	35	1050
Carding-machine	E. A. Leigh	335,761	Feb. 9	953	251, 252, 253	34	618
Carding-machine	H. L. Moulton	347,728	Aug. 17	1771	472	36	807
Carding-machine	W. H. Rankin	336,587	Feb. 23	2146	562	34	841
Carding-machine feeding mechanism	J. T. Lemaire	333,869	Jan. 5	509	139	34	95
Carding-machines. Doffer-cleaner for	W. Merritt	348,498	Aug. 31	2878	774	36	1030
Carding-machines. Doffer-comb head for	J. K. Proctor and J. H. Knowles	339,581	Apr. 6	716	175, 176	35	125
Carding-machines. Lap-feeding device for	W. Schofield	348,419	Aug. 31	2762	741	36	1009
Carding-machines. Lap-feeding device for	W. Schofield	348,420	Aug. 31	2764	742	36	1009
Carding-machines. Lap-feeding device for	W. Schofield	348,421	Aug. 31	2765	742	36	1009
Carding-machines. Lap-feeding device for	T. B. Wilde	345,940	July 20	1635	420, 421	36	306
Carding-machines. Lap-feeding mechanism for	M. Barber and S. P. Weeks	349,201	Sept. 14	909	234	36	1218
Carding-machines. Mechanism for stripping the flat cards of	E. W. Thomas	340,167	Apr. 20	1527	386, 387	35	285
Carding-machines. Mechanism for stripping the flats of	T. C. Entwistle	340,710	Apr. 27	2306	607	35	431
Carding-machines. Mote and dirt collecting attachment for	S. D. Keene	334,872	Jan. 26	1926	513	34	378
Carding-machines, &c. Roller for endless aprons for	W. Schofield	351,531	Oct. 26	2072	537	37	398
Carding-machines, &c. Self-feeder for	E. Tromblay	346,418	July 27	2303	593, 594	36	440
Cargoes. Discharging	J. Reid	353,083	Nov. 23	1884	508, 509	37	834
Carpet and weather strip combined	P. E. Reynolds	350,396	Oct. 5	388	111	37	78
Carpet-cleaner	F. H. Good	348,460	Aug. 31	2824	759	36	1020
Carpet-cleaning reel	S. J. Miller and M. J. McKenna	336,936	Mar. 2	71	19	34	939
Carpet-cover	F. Sanderson	336,951	Mar. 2	92	25	34	943
Carpet fabric. Ingrain-	H. Hardwick	353,135	Nov. 23	1966	526	37	851
Carpet-fastener	D. Bingham	336,381	Feb. 16	1863	488	34	785
Carpet-fastener	F. C. Hellmuth	334,170	Jan. 12	949	257	34	183
Carpet-fastener	E. and E. Holbeck	335,925	Feb. 9	1188	316	34	669
Carpet-fastener	M. L. Johnson	349,278	Sept. 14	1009	258	36	1238
Carpet-fastener	W. T. Merserean	344,393	June 29	2315	596	35	1456
Carpet-fastener	W. T. Merserean	344,394	June 29	2315	597	35	1456
Carpet-fastener	H. T. Windt	340,902	Apr. 27	2564	675	35	478
Carpet fastener. Stair-	R. H. Willet	349,329	Sept. 21	1066	273, 274	36	1258

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Carpet-lining	J. M. Baker	347,763	Aug. 24	1822	485	36	825
Carpet-lining	C. H. Cole	355,140	Dec. 28	2161	570	37	1430
Carpet-lining	J. S. Munroe	353,576	Nov. 30	2599	694	37	977
Carpet-stretcher	D. C. Burchfield	345,211	July 6	563	144	36	102
Carpet-stretcher	P. Britton and F. Truesdale	343,432	June 8	975	244	35	1191
Carpet-stretcher	A. Dann	343,892	June 15	1610	410	35	1314
Carpet-stretcher	O. C. Du Souchet	341,411	May 4	616	168	35	618
Carpet-stretcher	E. Gash	345,681	July 20	1273	321	36	242
Carpet-stretcher	C. R. Gincley	353,058	Nov. 23	1859	502	37	828
Carpet-stretcher	M. A. Higgins	335,356	Feb. 2	380	99	34	509
Carpet-stretcher	R. R. Jones	334,665	Jan. 19	1660	443	34	321
Carpet-stretcher	J. H. Keller and T. Wiley	334,174	Jan. 12	953	258, 259	34	184
Carpet-stretcher	W. N. Lane and E. E. Hale	343,462	June 8	1029	256	35	1200
Carpet-stretcher	H. M. Small	351,664	Oct. 26	2267	587	37	434
Carpet-stretcher	E. B. Willix	343,412	June 8	954	238	35	1188
Carpet stretcher and tacker	A. H. and F. G. Noyes	353,460	Nov. 30	2431	649	37	946
Carpet stretcher and tacker. Combined	E. Schmidt	348,350	Aug. 31	2660	716	36	989
Carpet-strip or door-sill	J. H. Fuchs	352,745	Nov. 16	1411	381	37	738
Carpet-sweeper	M. R. Bissell and W. J. Drew	335,010	Jan. 26	2105	560, 561	34	410
Carpet-sweeper	M. R. Bissell and W. J. Drew	349,684	Sept. 28	1561	404, 405	36	1362
Carpet-sweeper	W. H. Castle	346,641	Aug. 3	245	67	36	508
Carpet-sweeper	G. J. Cline	350,040	Sept. 28	2058	532	36	1455
Carpet-sweeper	W. J. Drew	343,572	June 15	1188	298	35	1235
Carpet-sweeper	W. J. Drew	344,089	June 22	1891	485	35	1372
Carpet-sweeper	W. J. Drew	353,294	Nov. 30	2190	586, 587	37	901
Carpet-sweeper	J. Hinkley. (Reissue)	10,701	Mar. 23	2455	647	34	1368
Carpet-sweeper	W. T. Johnston	351,908	Dec. 28	1832	464	37	1368
Carpet-sweeping machine	C. L. Travis	337,288	Mar. 2	546	144	34	1027
Carpet-tack tool	M. S. Lautz	352,416	Nov. 9	980	264	37	649
Carpets and chenille weft therefor. Manufacturing imitation Turkey	A. Kohn and F. Watzlawik	353,869	Dec. 7	310	81	37	1063
Carpets, &c. Fastening for	D. M. and J. E. Smyth	334,138	Jan. 12	894	244	34	174
Carpets, &c. Roll-stick for	C. W. Davis and H. Rath, Jr	355,145	Dec. 28	2166	571	37	1431
Carriage	J. Burke	335,741	Feb. 9	924	243	34	613
Carriage	J. N. Miller	353,322	Nov. 30	2229	597	37	907
Carriage	R. S. Tucker	340,466	Apr. 20	1955	502	35	363
Carriage and wagon jack	C. C. Bower and A. B. Evans	354,385	Dec. 14	1070	287	37	1210
Carriage-apron	P. H. Sharp	351,663	Oct. 26	2267	587	37	434
Carriage. Baby-	C. M. Banks	341,824	May 11	1176	314	35	735
Carriage. Baby-	G. D. Burton	349,629	Sept. 21	1489	385, 386	36	1341
Carriage. Baby-	G. A. Ellis	336,303	Feb. 16	1763	461	34	765
Carriage. Baby-	J. W. Griffin	334,372	Jan. 12	1248	336	34	239
Carriage. Baby-	R. Helm	338,171	Mar. 16	1741	455	34	1254
Carriage. Baby-	C. Lyne	337,343	Mar. 2	617	162, 163	34	1040
Carriage. Baby-	J. R. Moore	334,030	Jan. 12	738	201	34	145
Carriage. Baby-	I. L. Smith	350,162	Oct. 5	89	25	37	19
Carriage. Baby-	A. T. Vanneman	346,790	Aug. 3	416	115	36	541
Carriage-brake	C. E. Luhurg	353,870	Dec. 7	312	81	37	1064
Carriage brake. Baby-	W. H. Tier	345,457	July 13	919	231	36	170
Carriage-body	G. N. Beman, G. C. Beckwith, and A. M. Wood.	341,215	May 4	344	95	35	568
Carriage-body	J. Delahunty	337,252	Mar. 2	495	129	34	1017
Carriage-bow socket	J. M. Perkins	337,614	Mar. 9	996	256	34	1112
Carriage-canopy	C. B. Haynes	334,584	Jan. 19	1544	413	34	300
Carriage. Child's	W. England	344,309	June 22	2194	563	35	1427
Carriage. Child's	P. Gallagher	339,400	Apr. 6	408	100	35	76
Carriage. Child's	U. McClinchie and J. F. Butler	338,998	Mar. 30	2908	770	34	1476
Carriage. Child's	L. G. Spencer	338,798	Mar. 30	2621	690, 691	34	1424
Carriage. Child's	O. Unzicker	351,818	Nov. 2	124	34, 35	37	481
Carriage cover support	J. G. Abbott	345,821	July 20	1471	380	36	277
Carriage-curtain fastener	W. Leonhardt	337,843	Mar. 16	1293	335	34	1171
Carriage curtain fastening	J. M. Baker	333,811	Jan. 5	429	117	34	81
Carriage-curtain fastening	S. Dunn	355,008	Dec. 28	2069	518	37	1393
Carriage-curtain fastening	J. G. English	337,140	Mar. 2	346	90	34	989
Carriage-curtain fastening	H. L. Sanders	350,846	Oct. 12	1061	284	37	200
Carriage-fender	J. W. Black	349,247	Sept. 14	976	249	36	1231
Carriage. Folding baby-	C. Haller	340,779	Apr. 27	2401	633	35	449
Carriage foot-pad	H. P. Barrows and L. D. Knowles	344,935	July 6	192	49	36	36
Carriage-gear	E. S. Parmelee	348,770	Sept. 7	317	85	36	1106
Carriage-gear	E. Squires	344,689	June 29	2705	703	35	1529
Carriage-jack	P. J. Abbott	333,807	Jan. 5	424	115	34	80
Carriage-jack	G. C. Bovey	354,382	Dec. 14	1068	286	37	1209
Carriage running-gear	G. W. Simmons	335,969	Feb. 9	1243	330	34	670
Carriage-screen	W. M. Moore	346,857	Aug. 3	506	139	36	559
Carriage-seat	S. M. Hardenbergh	354,979	Dec. 28	1925	509	37	1386
Carriage-seat	C. Morgan	350,072	Sept. 28	2110	546	36	1465
Carriage-seat	J. A. Russell	348,240	Aug. 31	2524	678	36	961
Carriage-seat corner-iron	J. M. Davidson	348,621	Sept. 7	125	35	36	1070
Carriage-seat iron	H. B. Crandall	347,775	Aug. 24	1839	489	36	828
Carriage-seats. Detachable back for	H. Mankel, Jr	338,337	Mar. 23	2239	588	34	1351
Carriage shade-holder	C. W. Trow	344,883	July 6	129	32	36	23
Carriage-spring	J. Allen	336,464	Feb. 16	1980	519	34	806
Carriage-spring	F. E. Bortree	349,298	Sept. 21	1032	264	36	1251
Carriage-spring	H. W. Moore	336,131	Feb. 16	1480	391	34	720
Carriage-spring	N. A. Newton	351,701	Oct. 26	2321	604	37	445
Carriage-spring	S. W. Patton, E. B Guerin, and W. N. Fitz Gerald.	350,210	Oct. 5	165	48	37	34
Carriage-spring	J. E. Simmons	341,953	May 18	1349	361	35	775

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Invention.	Name	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Carriage-spring	J. B. Sliter and C. T. Bazzett	353,980	Dec. 7	481	131	37	1094
Carriage-spring	R. B. Williams	336,971	Mar. 2	116	32	34	947
Carriage spring. Baby-	J. F. Butler	348,378	Aug. 31	2707	727	36	998
Carriage-standard	H. Biggs	338,655	Mar. 23	2400	632	34	1379
Carriage-step and receiver for garbage and other ref-use. Combined	F. W. Carlin	338,825	Mar. 30	2663	700 701	34	1432
Carriage-steps. Pad-cover for	J. T. Dickey	349,986	Sept. 28	1991	514	36	1443
Carriage-top	D. H. Allen	345,472	July 13	939	237	36	174
Carriage-top	S. M. Chester	335,426	Feb. 2	473	122	34	526
Carriage-top	O. C. Coggins	337,926	Mar. 16	1404	364	34	1192
Carriage-top	R. E. Earl	335,801	Feb. 9	1014	268	34	629
Carriage-top	J. B. Pettibone	335,841	Feb. 9	1064	281	34	639
Carriage-top	J. B. Pettibone	345,538	July 13	1058	269	36	196
Carriage-top	H. W. Ransom	345,729	July 20	1338	348	36	254
Carriage-top	F. C. Zanetti	352,025	Nov. 2	428	116	37	538
Carriage-top attachment	H. J. Dernberger	351,253	Oct. 19	1636	429	37	312
Carriage-top former	J. F. Kirkland	341,662	May 11	965	255 256	35	693
Carriage-top joint	C. F. Dernell	340,105	Apr. 20	1436	363	35	268
Carriage-top prop	L. E. McKinnon	338,281	Mar. 23	1890	497	34	1290
Carriage-top prop	T. Kams	344,135	June 22	1954	499	35	1383
Carriage-top. Shifting	F. J. Brand	353,730	Dec. 7	113	31	37	1027
Carriage-tops. Fabric for	D. R. Faulkner	350,201	Oct. 5	269	148	37	55
Carriage-tops. Support for	T. Zanger	341,090	May 4	157	47	35	534
Carriage-tops. Supporting-frame for	E. Carroll and P. Ryan	348,722	Sept. 7	256	69	36	1095
Carriage-wheel	C. Coolidge	353,779	Dec. 7	174	47	37	1039
Carriage. Wheeled	A. Dickinson	352,306	Nov. 9	846	228	37	622
Carriage-windows. Apparatus for adjusting	W. Frost	340,037	Apr. 13	1345	336 337	35	246
Carriage-windows. Appliance for supporting	C. G. Gümpel	349,647	Sept. 21	1506	391	36	1345
Carriages. Brake for children's	T. W. Haus	352,689	Nov. 16	1344	363	37	724
Carriages. Reach coupling for	S. W. Cately	349,302	Sept. 21	1036	265	36	1252
Carriages. Parasol for children's	J. McAuliffe	350,262	Oct. 5	220	64	37	46
Carriages. Parasol-holder for children's	R. Ward	336,363	Feb. 16	1841	493	34	781
Carriages. Rod-holding clamp for children's	N. M. Guillow	351,329	Oct. 19	1731	455	37	329
Carriages. Shade-holder clamp for children's	G. W. Pearce	341,272	May 4	419	115	35	582
Carriages. Shifting seat for	C. C. Adelsperger	340,970	May 4	1	1	35	505
Carriages. Top for children's	A. T. Vannerson	348,074	Aug. 24	2274	609	36	909
Carriages. Umbrella for children's	J. Wright	336,879	Feb. 23	2549	671	34	916
Carrier:							
See Bundle-carrier. Ice-carrier.							
Butter-carrier. Jack-carrier.							
Cartridge-carrier. Line and trace carrier.							
Cash-carrier. Paper egg-carrier.							
Cash and parcel carrier. Rein-carrier.							
Shaft-carrier.							
Cob-carrier. Shuttle-carrier.							
Egg-carrier. Straw-carrier.							
Endless carrier. Trace-carrier.							
Game-carrier. Trace and rein carrier.							
Hair-carrier. Trace-chain carrier.							
Harvester sheaf-carrier. Wick-carrier.							
Yarn-carrier.							
Hay-carrier.							
Carrousel	R. Steel	344,753	June 29	2794	723	35	1544
Cart	R. T. Schall	346,616	Aug. 3	216	59	36	502
Cart and sugar-cane planter. Combined	E. and B. Holmes	347,800	Aug. 31	1873	500	36	835
Cart and weighing-scale. Combined coal	S. Arteaga and E. del Valle	354,998	Dec. 28	1953	515	37	1391
Cart. Delivery-	C. Kipp	355,177	Dec. 28	2213	584	37	1441
Cart. Dumping-	M. Conrad	341,834	May 11	1187	317 318	35	738
Cart. Dumping-	B. G. Fitzhugh	345,225	July 6	584	148 149	36	106
Cart. Dumping-	B. McGregor	337,011	Mar. 2	178	47	34	957
Cart. Dumping-	F. Storck	338,802	Mar. 30	2627	692	34	1425
Cart. Hand-	F. J. Aubeuf	351,561	Oct. 26	2112	547	37	406
Cart. Hand-	J. R. Fitzhugh	342,905	June 1	179	46	35	1038
Cart. Road-	F. Bechtel	348,447	Aug. 31	2807	754	36	1017
Cart. Road-	M. L. Bergman	341,216	May 4	345	96	35	568
Cart. Road-	M. M. Billmire	343,979	June 22	1727	443	35	1343
Cart. Road-	W. R. Church	355,060	Dec. 28	2045	537	37	1406
Cart. Road-	S. Coles	340,766	Apr. 27	2384	629	35	446
Cart. Road-	W. B. Getty	349,882	Sept. 28	1853	478	36	1417
Cart. Road-	I. V. Hicks	350,487	Oct. 12	545	152	37	108
Cart. Road-	M. H. Lane	346,555	Aug. 3	132	36	36	485
Cart. Road-	A. McAvoy	352,830	Nov. 16	1522	410	37	778
Cart. Road-	E. Moles	354,728	Dec. 21	1574	416	37	1307
Cart. Road-	T. O'Brien and W. H. Schmedlen	341,498	May 11	730	196	35	648
Cart. Road-	C. H. Schlaack	341,281	May 4	433	116	35	584
Cart. Road-	W. E. Teller	344,017	June 22	1781	459	35	1352
Cart. Road-	W. J. Wayne	352,593	Nov. 16	1206	327	37	699
Cart. Road-	J. D. Wilson	336,973	Mar. 2	120	33	34	947
Cart. Slag-	A. Werner	343,788	June 15	1475	370	35	1288
Cart. Slag-	A. Werner	354,671	Dec. 21	1503	397	37	1292
Cart. Water-	S. B. Sherer	344,684	June 29	2699	701	35	1528
Cartridge	E. Amodeo-Salvator	350,096	Oct. 5	2	1	37	3
Cartridge	H. F. Clark	333,728	Jan. 5	321	88	34	60
Cartridge-box	E. Amodeo-Salvator	350,097	Oct. 5	2	1	37	3
Cartridge capper and decapper	J. Maloney	334,449	Jan. 19	1354	367	34	265
Cartridge-carrier	W. Splitt	343,258	June 8	707	175	35	1144
Cartridge-cases. Making blanks for the bottoms of	A. Bullen	337,771	Mar. 9	1188	.....	34	1145
Cartridge-crimper	W. E. Nye	340,057	Apr. 13	1370	344	35	251
Cartridge decapper, recapper, and reloader	S. McNeill	335,231	Feb. 2	211	55	34	477
Cartridge-extractor	J. C. Macmillan	354,157	Dec. 14	750	201	37	1150
Cartridge-extractor for breakdown guns	J. Deeley, Jr	335,021	Jan. 26	2121	565	34	414

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Cartridge-extractor for breakdown guns	J. Deeley, Jr	348,452	Aug. 31	2812	756	36	1018
Cartridge for blasting. Water-	M. Settle	343,497	June 8	1073	268	35	1208
Cartridge-holder	M. S. Barker	344,152	June 22	1975	505	35	1387
Cartridge-implement	D. Brown	340,549	Apr. 27	2079	537	35	394
Cartridge-loader	H. H. Slinn	349,818	Sept. 28	1769	457 458	36	1399
Cartridge-loader	C. H. Smith and J. S. Millikin	344,206	June 22	2054	526	35	1401
Cartridge-loader	J. V. Thompson	346,242	July 27	2061	529	36	395
Cartridge-loading case	W. H. Murphy	343,836	June 15	1535	388	35	1299
Cartridge-loading implement	S. E. Cheeseman. (Reissue)	10,752	July 27	2373	608	36	452
Cartridge-loading implement	F. C. Washburn	345,343	July 13	755	190	36	142
Cartridge-loading machine	O. F. Belcher	336,689	Feb. 23	2301	601 602	34	870
Cartridge-loading machine	F. L. Chamberlin	336,384	Feb. 16	1866	489 490	34	786
Cartridge-loading machine	G. J. Foster	343,706	June 15	1365	341 342	35	1267
Cartridge-loading machine	W. Hill	351,981	Nov. 2	366	100	37	526
Cartridge-loading machine	J. E. Steele	354,264	Dec. 14	914	241 242	37	1179
Cartridge-loading machine	L. H. Van Syckle	336,676	Feb. 23	2282	596 597	34	866
Cartridge-loading machine	C. Wonacott	347,455	Aug. 17	1372	365	36	733
Cartridge-loading machines. Wad-feed attachment for	O. F. Belcher	337,117	Mar. 2	313	82	34	984
Cartridge-magazine	T. Quilliam	340,732	Apr. 27	2342	617	35	438
Cartridge-pack. Reloading	D. B. Wesson	354,454	Dec. 14	1164	311	37	1226
Cartridge-resizing implement	G. W. Morse	346,213	July 27	2013	519 520	36	386
Cartridge-shell	H. W. Libbey	339,306	Apr. 6	276	609	35	52
Cartridge-shell-crimping device	O. F. Belcher	333,589	Jan. 5	125	34	34	26
Cartridge-shell holder	W. H. Fisher	339,396	Apr. 6	404	99	35	75
Cartridge-shell. Sectional	H. W. Libby	347,051	Aug. 10	787	209	36	618
Cartridge-shell-trimming machine	C. A. R. Dimon	351,747	Nov. 2	24	6, 7	37	463
Cartridge-shells. Apparatus for reloading	G. G. Greenough	351,861	Nov. 2	192	54	37	494
Cartridge-shells. Device for trimming	R. White	348,441	Aug. 31	2796	751	36	1015
Cartridge-shells. Finishing	H. E. Fowler	350,729	Oct. 12	889	238	37	169
Cartridge-shells. Machine for drawing	R. White	353,190	Nov. 23	2049	547	37	867
Cartridge-shells. Machine for feeding	J. V. Meigs	340,234	Apr. 20	1632	413 414	35	304
Cartridge-shells. Making	W. Lorenz	346,759	Aug. 3	381	105	36	535
Cartridge. Shot-	W. E. Boyd	347,988	Aug. 24	2152	572	36	885
Cartridges. Machine for loading	E. A. Franklin	347,030	Aug. 10	756	201 202	36	612
Cartridges. Machine for loading	E. A. Franklin	347,268	Aug. 10	1091	292	36	674
Cartridges. Reloading	G. W. Morse	345,165	July 6	505	130	36	92
Cartridges. Resizing implement for	T. G. Bennett	355,122	Dec. 28	2134	561	37	1425
Carving apparatus	R. B. Codling	340,288	Apr. 20	1713	436	35	318
Carving device	H. Mitchell	345,528	July 13	1038	263	36	192
Carving-fork	L. B. Bethell	334,861	Jan. 26	1887	502	34	371
Carving-fork	J. Gérard and C. F. Smith	345,044	July 6	348	88	36	63
Carving implement	W. A. Ligon	342,617	May 25	2307	610	35	957
Carving-machine	J. Davis	336,096	Feb. 16	1438	379	34	711
Carving-machine	E. D. Mackintosh	346,596	Aug. 3	182	49	36	495
Carving-machine	R. T. Markee	339,444	Apr. 6	472	115	35	87
Case: *See* Banker's note-case. Blacking-case. Blotter-case. Book-case. Book or show case. Bottle-case. Button-fastener packing-case. Cartridge-loading case. Clock-case. Coffee-case. Collapsible case. Dressing case. Egg-case. Eyeglass-case. File-case. Gun-case. Handkerchief-display case. Honey-box case. Lamp-case. Map-case. Map and window-shade case. Measure-case. Medicine-case. Music-case. Needle-case. Organ-case. Packing-case. Pen and pencil case. Physician's buggy-case. Piano-case. Pigeon-hole case. Pipe-case. Powder-case. Ribbon-case. Shipping-case. Shot-case. Show-case. Soldering-case. Stair-case. Ticket-case. Type-case. Vial and sample case. Violin-case. Watch-case. Writing-case.							
Case for embroidery-silks	J. V. B. Hoyle	334,704	Jan. 19	1712	456	34	331
Cash and parcel car. Electric	G. F. Green	338,150	Mar. 16	1712	446 447	34	1249
Cash and parcel carrier	P. Boland	341,725	May 11	1049	278	35	711
Cash and parcel carrier	D. W. Miller	342,921	June 1	209	54	35	1043
Cash and parcel carrier for store-service	E. I. Blount and C. A. Kimpton	337,809	Mar. 16	1249	324	34	1163
Cash and parcel transfer system. Electric	G. F. Green	338,224	Mar. 16	1812	473 474	34	1268
Cash and parcel transfer system. Electric	G. F. Green	338,663	Mar. 23	2413	635	34	1381
Cash and parcel transmitting apparatus	W. H. Gilman	337,830	Mar. 16	1274	330	34	1168
Cash and parcel transmitting apparatus for store-service	E. I. Blount, C. A. Kimpton, and W. H. Gilman	337,808	Mar. 16	1246	323 324	34	1163

Alphabetical list of inventions—Continued.

Invention	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cash and parcel transmitting apparatus for store-service.	N. W. Stearns and C. Grant, Jr	338,369	Mar. 23	2016	530	34	1312
Cash-box	W. C. Hubbard and W. M. Brownell.	339,420	Apr. 6	442	108	35	82
Cash-box. Self-registering	T. Carney	334,347	Jan. 12	1220	328, 329	34	234
Cash-carrier	S. W. Barr	341,825	May 11	1177	315	35	736
Cash-carrier	C. E. Chinnock	345,884	July 20	1558	402	36	292
Cash-carrier	J. W. Flagg and C. R. B. Claflin	351,506	Oct. 26	2038	520	37	391
Cash-carrier	T. M. Kenney	343,539	June 8	1122	283	35	1217
Cash-carrier	J. C. Martin	334,599	Jan. 19	1562	417	34	303
Cash-carrier	G. H. Spangler	347,657	Aug. 17	1657	447	36	791
Cash-carrier. Automatic	J. W. Flagg	348,957	Sept. 14	572	152	36	1158
Cash-carrier-propelling mechanism	F. E. Fisher	334,649	Jan. 19	1639	438	34	317
Cash-carrier. Vacuum	S. W. Barr	341,826	May 11	1178	315	35	736
Cash-carrying device. Automatic	J. L. Hayward and T. C. Simonton, Jr.	343,455	June 8	1017	253, 254	35	1198
Cash-check device	J. H. Smith	346,955	Aug. 10	652	174	36	593
Cash drawer and register	G. Weitzel	345,092	July 6	407	103	36	74
Cash-indicator and check-receiver. Alarm	C. E. Baldwin	337,915	Mar. 16	1387	360	34	1188
Cash indicator and recorder	F. J. Patterson, I. P. Davis, and A. Herrman.	351,459	Oct. 26	1964	511	37	376
Cash indicator and recorder for cash-drawers	E. W. Blackball	340,545	Apr. 27	2075	535, 536	35	393
Cash-receiver	D. W. Davis and W. G. Latimer	340,770	Apr. 27	2389	630	35	446
Cash-register	W. Aldrich	342,059	May 18	1492	398, 399, 400	35	801
Cash-register	W. Koch	354,867	Dec. 21	1767	466, 467	37	1344
Cash-register	W. C. McGill	345,247	July 6	619	157	36	112
Cash-register	W. C. McGill	350,986	Oct. 19	1282	337	37	247
Cash-register	T. Munnell	354,483	Dec. 14	1203	322, 323	37	1233
Cash-register	W. G. Schickner	349,522	Sept. 21	1352	352	36	1314
Cash register and indicator	C. B. Hopkins	347,296	Aug. 10	1134	303, 304, 305	36	682
Cash register and indicator	F. J. Patterson and I. P. Davis	344,982	July 6	261	65, 66	36	47
Cash register and indicator	F. J. Patterson, I. P. Davis, and A. Herrman.	351,460	Oct. 26	1966	511	37	377
Cash system. Pneumatic	H. Gazaille and H. F. Low	349,708	Sept. 28	1600	413	36	1369
Casing-cap and tubing tester and cleaner. Combined	W. V. Hardman	343,239	June 8	677	168	35	1138
Cask	L. Much	355,195	Dec. 28	2237	590	37	1446
Cask. Beer	W. Heiser	337,401	Mar. 9	698	182	34	1061
Cask. Brewer's chip	H. Bletzer	350,522	Oct. 12	592	164	37	115
Cask for fermenting	C. C. Puffer	346,066	July 20	1806	466, 467	36	337
Cask-stand	A. S. Bishop and F. Down	343,267	June 8	717	178	35	1145
Casks. Head-staying device for	T. P. Walsh	355,039	Dec. 28	2013	530	37	1401
Casks in cellars. Apparatus for automatically feeding wine.	G. Johnston	340,786	Apr. 27	2408	635	35	450
Casks or barrels. Machine for cleaning	W. O. Taylor	334,488	Jan. 19	1418	382	34	277
Casks. Safety-valve for beer	J. C. Schaefer and J. A. Hagmayer.	337,622	Mar. 9	1006	258	34	1114
Casks. Valve attachment for wine	T. S. Glaister	335,751	Feb. 9	938	247	34	615
Cast wheel, pulley, &c	M. D. Loomis	334,178	Jan. 12	960	260	34	185
Caster	J. L. Carroll and W. H. Creighton	339,373	Apr. 6	371	90	35	69
Caster	T. F. Conklin	349,982	Sept. 28	1986	513	36	1442
Caster	N. Drucker	344,728	June 29	2757	714	35	1538
Caster	A. C. Frankel	338,636	Mar. 23	2374	625	34	1375
Caster	A. C. Frankel	350,302	Oct. 5	269	77	37	53
Caster	T. Goetz	341,139	May 4	233	69	35	548
Caster	T. Ruster	346,161	July 27	1941	500	36	372
Caster	S. T. Lamb	355,020	Dec. 28	1984	522	37	1396
Caster	G. M. Patten	335,301	Feb. 2	300	80	34	495
Caster	C. V. Pleukharp	348,052	Aug. 24	2238	598	36	903
Caster	H. B. Plumb	349,952	Sept. 28	1945	503	36	1434
Caster	D. Richmond	344,988	July 6	272	70	36	49
Caster	J. F. Terril and W. Simonson	352,209	Nov. 9	716	192	37	598
Caster	R. S Thompson	340,170	Apr. 20	1534	388	35	286
Caster	W. P. Tracy	347,261	Aug. 10	1083	289	36	672
Caster. Ball	E. Carr	348,887	Sept. 7	473	125	36	1134
Caster. Furniture	J. Berkey and W. R. Fox	345,613	July 13	1156	296	36	214
Caster. Furniture	J. R. Hargrove	349,588	Sept. 21	1439	371	36	1330
Caster. Furniture	F. M. Lechner	338,985	Mar. 30	2884	763	34	1471
Caster. Furniture	D. C. Otis	350,636	Oct. 12	763	209	37	146
Caster. Furniture	O. Pederson	343,725	June 15	1408	351	35	1275
Caster. Furniture	S. H. Raymond	342,930	June 1	220	56	35	1045
Caster. Furniture	W. H. Tucker	347,749	Aug. 17	1798	479	36	813
Caster. Furniture	C. A. Whitney	351,418	Oct. 26	1906	496	37	365
Caster-holder for furniture	C. E. Ongley	342,970	June 1	275	71	35	1056
Caster. Stove	L. A. White	343,511	June 8	1087	273	35	1211
Caster. Trunk	P. C. Biersach	335,557	Feb. 9	658	173	34	565
Caster. Trunk	A. V. Romadka	335,148	Feb. 2	68	18	34	453
Caster. Trunk	A. V. Romadka	335,149	Feb. 2	69	19	34	453
Caster. Trunk or furniture	S. M. Michelson	349,948	Sept. 28	1940	501	36	1433
Casting blooms. Mold for	J. Munton	352,559	Nov. 16	1158	313	37	690
Casting box. Stereotype	E. E. Pratt and C. S. Partridge	334,048	Jan. 12	768	210	34	151
Casting car-wheels	W. Wilmington	344,300	June 22	2182	560	35	1425
Casting car-wheels	W. Wilmington. (Reissue)	10,742	June 29	2869	741	35	1560
Casting car-wheels. Chill for	L. R. Faught	341,326	May 4	502	137	35	596
Casting car-wheels. Chill for	J. R. Whitney	352,793	Nov. 16	1477	399	37	750
Casting chains. Mold for	W. Penman	354,732	Dec. 21	1584	418	37	1309

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Casting composition rollers for printers' use. Apparatus for	L. K. Bingham	342,420	May 25	2026	535	35	905
Casting compound ingots. Mold for	J. Illingworth	349,886	Sept. 28	1859	479	36	1418
Casting compound ingots. Mold for	A. J. Lustig	352,476	Nov. 9	1054	283	37	663
Casting. Core for	J. R. Whitney	354,287	Dec. 14	950	251	37	1185
Casting cross-heads. Chill for use in	J. Barclay	348,819	Sept. 7	371	101	36	1117
Casting hearth-plate catches and grate-hooks. Catch for	C. Vetter	338,210	Mar. 16	1794	468	34	1265
Casting ingots. Plant for	W. H. Pollett	343,954	June 15	1688	433	35	1329
Casting machine. Stereotype	J. Brooks	351,040	Oct. 19	1352	355 / 356	37	260
Casting machine. Stereotype	J. E. Caps	352,447	Nov. 9	1019	274	37	656
Casting machine. Type	G. Rettig	354,935	Dec. 28	1871	494	37	1375
Casting. Material for use in molds for	K. W. Blackwell	348,105	Aug. 24	2316	621	36	917
Casting medallions, tiles, picture-frames, moldings, &c. Composition of matter suitable for	W. W. Barnes and J. D. Emack	339,519	Apr. 6	588	.....	35	108
Casting metal. Chill for use in	J. J. Carr	343,559	June 8	1152	290 / 291	35	1223
Casting metal ingots	J. H. Dalliba and F. Billings	333,929	Jan. 5	594	162	34	111
Casting metal tubes. Core for	A. Humbert	341,419	May 4	624	170	35	618
Casting. Mold for	J. Walker	343,872	June 15	1584	403	35	1309
Casting mold. Type	C. Hochstaitt	335,483	Feb. 16	2004	525	34	810
Casting pipe. Apparatus for	A. Kilpatrick	349,596	Sept. 21	1448	373	36	1332
Casting. Process of and mold for	J. R. Whitney	352,792	Nov. 16	1476	398	37	750
Casting solder-joints. Mold for	A. Cunningham	337,562	Mar. 9	937	240	34	1101
Casting stench-traps. Mold for	E. H. Murdock	334,033	Jan. 12	740	202	34	146
Casting stereotypes. Machine for	O. Mergenthaler	347,818	Aug. 24	1901	507 / 508	36	841
Casting teeth for diamond-saws. Mold for	E. Foerster	340,204	Apr. 20	1589	402	35	296
Casting traps. Mold for	C. F. Carr	343,221	June 8	649	161	35	1133
Casting tubes. Revolving mold for	G. Adams	348,709	Sept. 7	243	64	36	1092
Casting type. Mold for	C. Hochstaet, P. Wenzel, and H. Heinebach.	354,060	Dec. 7	593	161 / 162	37	1114
Casting type-wheels. Mold for	E. L. Tarbox	354,586	Dec. 21	1362	361	37	1268
Casting wheels. Mold for	J. W. McGill	354,720	Dec. 21	1565	414	37	1305
Castings from old steel rails. Producing steel	J. J. Vinton	343,617	June 15	1243	312 / 313	35	1247
Castings. Manufacturing flanged	J. Sullivan	334,821	Jan. 26	1863	496	34	367
Castings. Mold for forming	W. H. Harris	340,043	Apr. 13	1356	340	35	248
Castrating-instrument	J. Trullinger	350,068	Sept. 28	2134	552	36	1469
Catafalque and bier combined. Portable	G. A. Firnstein	352,915	Nov. 23	1642	441	37	791
Catch. Safety	W. S. Andrews	348,371	Aug. 31	2697	725	36	996
Cattle from goring. Device for preventing	J. M. Markham	352,337	Nov. 9	885	238	37	629
Cattle-mark	W. P. Boyden, C. A. Clark, and C. N. Trump.	344,241	June 22	2100	537	35	1410
Cattle-pricker belt	J. M. Markham	352,335	Nov. 9	882	237	37	629
Ceiling, &c. Adjustable decorated	J. Sutherland	349,375	Sept. 21	1151	298	36	1274
Ceiling and floor. Fire-proof	C. F. W. Doehring	347,474	Aug. 17	1401	373	36	739
Ceiling. Fire-proof	C. C. Gilman	337,829	Mar. 16	1273	330	34	1167
Ceiling. Fire-proof	C. Toope	334,996	Jan. 26	2083	556	34	406
Ceiling. Metallic	J. D. Ottiwell	343,775	June 15	1468	368	35	1286
Ceilings. Fire-proof attachment for wooden-beam	D. O'Connor	350,267	Oct. 5	227	67	37	47
Cellar or window screen	I. Brooke	343,697	June 15	1355	338	35	1245
Cellars. Draining	J. Nicaise	349,735	Sept. 28	1654	427	36	1377
Cement for brush-making and other purposes	R. C. Fellows	342,191	May 18	1665	.....	35	883
Cement for roofing, &c.	E. J. Burchell	339,970	Apr. 13	1246	.....	35	228
Cement for securing metal rings to electric-lamp bulbs and for other purposes.	A. L. Reimmann	335,542	July 13	1064	.....	36	197
Cement. Hydraulic	U. Cummings	350,415	Oct. 5	414	119	37	82
Cement. Hydraulic	J. Murphy and N. W. Lord	347,367	Aug. 17	1244	.....	36	710
Cement. Making hydraulic	J. Anderson	346,525	Aug. 3	98	.....	36	479
Cement. Manufacture of	U. Cummings	342,784	June 1	15	.....	35	1009
Cement. Manufacture of	H. Mathey	339,673	Apr. 13	854	.....	35	157
Cement. Manufacture of hydraulic	H. Mathey	343,182	June 8	599	.....	35	1125
Cement. Manufacture of hydraulic	H. Mathey	343,183	June 8	600	.....	35	1125
Cement. Manufacture of hydraulic	H. Mathey	343,184	June 8	601	.....	35	1125
Cement, &c. Manufacturing	F. Ransome	340,357	Apr. 20	1817	466	35	338
Cement. Manufacturing hydraulic	H. C. and D. Millen	343,913	June 15	1636	418	35	1320
Cement pipe and earthenware	S. D. Castle	343,944	June 15	1671	429	35	1327
Center and templet instrument. Temporary	F. A. Humphrey	346,048	July 20	1784	459 / 460	36	332
Center-board for vessels	D. McFall	351,117	Oct. 19	1456	381	37	279
Center-board for vessels	W. Welch	336,365	Feb. 16	1844	484	34	781
Center-board for vessels. Swinging	J. A. Deering	341,643	May 11	935	248	35	688
Center-board. Shifting-ballast	G. W. Schermerhorn	352,934	Nov. 23	1649	448	37	795
Centerer	J. Deno and T. H. Reardon	347,925	Aug. 24	2062	547	36	870
Centering device	J. Irving	352,693	Nov. 16	1350	365	37	725
Centering-tool	C. A. Singer	335,845	Feb. 9	1069	282 / 283	34	640
Centering-tool	J. N. Waite	352,169	Nov. 9	669	178	37	588
Centrifugal extractor	W. and C. L. Cairns	355,138	Dec. 28	2157	567	37	1429
Centrifugal machine	G. Fletcher	335,690	Feb. 9	844	223	34	598
Centrifugal machine	J. Laidlau	337,166	Mar. 2	380	99	34	996
Centrifugal machine	F. P. Sherman	345,994	July 20	1710	440 / 441	36	320
Centrifugal machine	A. Waldbaur	343,932	June 15	1656	425	35	1324
Centrifugal machine	D. M. Weston	351,416	Oct. 26	1903	495	37	365
Centrifugal machine for extracting water from coils of wire, &c.	E. Cabble	348,316	Aug. 31	2622	707	36	981
Centrifugal power. Continuous apparatus operated by	A. J. A. Dumoulin	338,393	Mar. 23	2055	539	34	1318
Centrifugal reel	H. E. Beerling	338,466	Mar. 23	2150	562	34	1336
Centrifugal reel	E. E. Draver. (Reissue)	10,696	Mar. 9	1234	320 / 321	34	1154

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Centrifugal reel	W. R. Dunlap	341,134	May 4	227	68	35	547
Cereals and mode of production. Prepared	J. Solter and H. R. Robbins, Jr	341,355	May 4	537	.....	35	602
Cereals. Food products from	C. S. Boynton and W. J. Van Patten	344,717	June 29	2739	.....	35	1535
Cereals. Machine for making sheets of ground	J. F. Gent	347,790	Aug. 24	1859	495	36	833
Cereals. Preparing	J. W. Robertson	349,812	Sept. 28	1762	.....	36	1398
Cereals. Preserving	J. Finke	348,320	Aug. 31	2626	708	36	982
Cesspool and catch-basin	A. Staples	338,801	Mar. 30	2626	691	34	1425
Chain	J. E. Crook	354,046	Dec. 7	573	156	37	1110
Chain	G. W. McGill	351,789	Nov. 2	86	24	37	474
Chain	W. A. Peck	354,436	Dec. 14	1141	305	37	1222
Chain-bolt	J. B. Hawes	339,883	Apr. 13	1135	282	35	209
Chain-clasp	C. Schlag	335,247	Feb. 9	229	60	34	481
Chain. Conveyer-	J. M. Dodge	353,256	Nov. 23	2130	272	37	884
Chain conveyer	M. Garland	344,178	June 22	2014	516	35	1394
Chain. Drive-	C. E. Alden	336,779	Feb. 23	2413	634	34	891
Chain. Drive-	J. M. Dodge	352,742	Nov. 16	1407	380	37	737
Chain. Drive-	M. Dutrisac	347,697	Aug. 17	1726	460	36	800
Chain. Drive-	F. Eckstein, Jr	340,300	Apr. 20	1731	441	35	321
Chain. Drive-	J. H. Elward	345,579	July 13	1115	285	36	206
Chain. Drive-	J. A. Jeffrey	336,921	Mar. 2	54	14	34	936
Chain. Drive-	N. P. Levalley	345,707	July 20	1305	338	36	248
Chain. Drive-	C. W. Miller	339,003	Mar. 30	2923	774	34	1478
Chain. Drive-	W. N. Whiteley	333,803	Jan. 5	420	113	34	79
Chain. Drive-	W. N. Whiteley	333,804	Jan. 5	421	114	34	79
Chain-link. Metal	F. Egge	344,953	July 6	214	55	36	40
Chain-link. Ornamental	J. Bushee	341,993	May 18	1398	373	35	783
Chain-link. Ornamental	J. Bushee	353,015	Nov. 23	1786	480	37	816
Chain-link. Ornamental	H. H. Kelly	341,580	May 11	853	227	35	671
Chain-links. Machine for trimming and coupling	N. B. Fassett	347,338	Aug. 17	1201	321, 322	36	703
Chain-machine	V. Röper	338,106	Mar. 16	1663	432	34	1239
Chain machine. Weldless-	M. Jacker	339,781	Apr. 13	1001	247	35	183
Chain-making machine	J. E. Sherman	353,087	Nov. 23	1893	510	37	836
Chain. Ornamental	O. M. Draper	353,543	Nov. 30	2557	682	37	969
Chains. Machine for making ornamental	J. Kinder	348,850	Sept. 7	411	112	36	1124
Chains. Manufacture of weldless	A. O. David	335,899	Feb. 9	1158	307, 308	34	655
Chains. Ornamenting	W. C. and H. C. Starr	346,786	Aug. 3	412	.....	36	540
Chains. Spring link and bar for	A. W. Cox	347,421	Aug. 17	1315	351	36	724
Chains. Spring link and bar for	A. W. Cox	347,422	Aug. 17	1317	351	36	724
Chair:							
See Adjustable chair.	Opera-chair.						
Barber and dental chair.	Photographer's chair.						
	Piano and office chair.						
Barber's chair.	Rail-chair.						
Camp-chair.	Railway-rail-joint chair.						
Children's chair.	Railway-switch chair.						
Child's chair.	Reciprocating chair.						
Convertible chair.	Reclining-chair.						
Dentist's chair.	Revolving chair.						
Easy-chair.	Rocking-chair.						
Exercising-chair.	Surgical chair.						
Folding and invalid chair.	Swinging and reclining chair.						
Hammock-chair.	Tilting and rocking chair.						
Invalid-chair.	Tilting and swivel chair.						
Ladder-chair.	Window-cleaning chair.						
Nursing-chair.							
Chair	E. A. Dexter and J. Chase. (Reissue)	10,754	Aug. 10	1162	311	36	687
Chair	J. W. H. Doubler	344,255	June 22	2119	541	35	1413
Chair	G. T. Evans	345,290	July 13	686	173	36	129
Chair	J. H. McElroy	343,965	June 15	1708	437	35	1333
Chair	T. A. McFarland	348,633	Sept. 7	140	39	36	1073
Chair	H. H. Paine	341,047	May 4	101	30	35	523
Chair	H. Parry	346,311	July 27	2152	553	36	412
Chair	J. G. Plowman	346,313	July 27	2155	554	36	413
Chair	J. W. Price	354,087	Jan. 12	823	225	34	161
Chair	G. J. Shults	349,907	Sept. 28	1881	486	36	1422
Chair	D. Smith	350,374	Oct. 5	238	60	37	50
Chair	E. J. Smith	348,244	Aug. 31	2529	679	36	961
Chair	G. E. Underhill	351,671	Oct. 26	2276	589	37	436
Chair	H. C. Weeden	338,895	Mar. 30	2766	728	34	1449
Chair and cot. Convertible	W. H. Phillips	352,067	Nov. 2	486	132	37	570
Chair and rocker fastener	O. J. Punches	346,560	Aug. 3	137	38	36	486
Chair and step-ladder. Combined	O. J. Marsh	347,883	Aug. 24	2001	531	36	858
Chair and table. Convertible	C. E. Schleier	342,847	June 1	101	25	35	1024
Chair-brace	G. E. Hurley	352,755	Nov. 16	1426	384	37	741
Chair-bottoms. Machine for caning	J. S. Hodgson	342,963	June 1	266	69	35	1054
Chair. Convertible	H. H. De Few. (Reissue)	10,779	Nov. 2	556	147, 148	37	562
Chair iron. Tilting-	H. Wolff	353,616	Nov. 30	2669	715	37	989
Chair-seat	R. P. Burkhardt	340,029	Apr. 13	1333	333	35	243
Chair seat and back	F. Latulip	335,461	Feb. 2	519	135	34	534
Chairs. Adjustable head-rest for	J. Hogan	342,830	June 1	79	20	35	1021
Chairs. Clamping device for reclining-	E. Kelsey	342,019	May 18	1438	383	35	791
Chairs. Head-rest for	D. S. Ashby	346,634	Aug. 3	236	65	36	506
Chairs. Spring attachment for	M. D. and T. A. Connolly	354,044	Dec. 7	571	155	37	1109
Chamfer-knife. Extension	D. Eisolt	351,506	Oct. 26	2156	558	37	413
Chandelier. Extension gas-	B. Churchill	350,806	Oct. 12	1002	268	37	189
Chandeliers. Electric connection for	J. P. Willets and E. R. Crolius	348,708	Sept. 7	242	64	36	1092
Change and fare box. Automatic	T. Mangan and J. T. Wilson	351,989	Nov. 2	383	104	37	530
Change-gate	J. M. Bishop	350,409	Oct. 5	401	115	37	80
Change-receptacle and satchel or bag. Combined	T. J. Ford	341,898	May 18	1281	343	35	763
Channeling-machine	C. S. Ames	345,873	July 20	1540	398	36	288

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Charcoal. Apparatus for the manufacture of	L. S. Goodrich	342,201	May 18	1677	448	35	836
Charcoal-kiln	L. S. Goodrich	342,202	May 18	1679	448	35	836
Charcoal-kiln	W. A. Miles. (Reissue)	10,746	July 20	1827	472	36	342
Charcoal. Kiln for the manufacture of	H. M. Pierce	352,931	Nov. 23	1664	447	37	794
Charcoal. Manufacturing	L. S. Goodrich	345,131	July 6	457	.....	36	84
Charm and cigar-cutter. Combined watch-	J. E. Heath and W. Fredricks	340,212	Apr. 20	1600	405	35	298
Chart. Anatomical	J. T. White	342,154	May 18	1621	434	35	826
Chart. Anatomical	J. T. White. (Reissue)	10,790	Dec. 14	1275	340	37	1246
Chart. Anatomical	L. W. Yaggy	340,270	Apr. 20	1686	430	35	313
Chart. Dress-	J. Penley	337,016	Mar. 2	185	49	34	958
Chart. Dress-maker's	E. Baker	349,198	Sept. 14	906	233	36	1218
Chart for drafting garments	E. Gartland	355,160	Dec. 28	2190	578	37	1436
Chart. Star time-	J. B. Morse	340,452	Apr. 20	1931	496	35	359
Charts. Portfolio or case for anatomical	L. W. Yaggy	337,544	Mar. 9	914	234	34	1097
Chasing-mill	B. Kane	348,524	Aug. 31	2916	784	36	1037
Check-bar for bridles	H. Lowe	335,465	Feb. 2	523	137	34	535
Check-case	R. G. Hanford, Jr	339,290	Apr. 6	252	63	35	47
Check for bridles. Overdraw-	J. W. Whittic	333,381	Jan. 5	115	31	34	24
Check-hook	J. Darling	337,563	Mar. 9	938	240	34	1101
Check-hook. Harness	P. W. Corcoran	352,519	Nov. 16	1106	299	37	681
Check-hook. Harness	O. C. Wightman	345,013	July 6	313	79	36	57
Check or ticket register apparatus	J. H. Guest	339,716	Sept. 28	1604	414, 415, 416	36	1369
Check-receiver	J. Casey	353,051	Nov. 23	1849	499	37	827
Check-rein hook	J. A. Gorly	334,769	Jan. 26	1800	479	34	356
Check-rein hook	H. D. McKinney	333,880	Jan. 5	523	142	34	98
Check-row wire. Machine for making	E. P. Peacock	337,430	Mar. 9	752	193, 194, 195, 196	34	1070
Check-row wires. Anchor for	R. Faries	343,305	June 8	775	194	35	1156
Check-rower	J. C. Butler	347,301	Mar. 2	568	150	34	1031
Check-rower	R. Faries	347,168	Aug. 10	961	256, 257	36	650
Check-rower	C. H. Gage	342,347	May 25	1918	506	35	887
Check-rower	G. D. Haworth	353,136	Nov. 23	1968	526	37	851
Check-rower	E. M. Heyman	353,452	Nov. 30	2421	646	37	944
Check-rower	A. Wilt	345,563	July 13	1095	279	36	202
Check-rower and corn-planter	J. W. Buffington	354,846	Jan. 26	1892	504	34	372
Check rower and marker	C. F. Neer	349,402	Sept. 21	1187	307, 308	36	1281
Check-rower tension device	E. W. Ryder and C. A. Rosevelt	347,832	Aug. 24	1927	511	36	846
Check-rowers. Anchor for	A. T. Crow	348,152	Aug. 24	2380	638	36	929
Check-rowing attachment	W. J. Snider	353,646	Nov. 30	2721	726	37	998
Checks. Machine for delivering and adding	L. T. Weiss	348,369	Aug. 31	2687	723, 724	36	994
Checks, notes, &c. Holder for	C. A. Spiegel	345,933	July 20	1625	419	36	305
Cheese-curd. Machine for degranulating	K. Seifert	346,227	July 27	2029	523	36	390
Cheese-cutter	S. P. Hodgen	355,081	Dec. 28	2073	545	37	1412
Cheese-cutter	E. L. Liedke	338,533	Mar. 23	2234	586	34	1351
Cheese-cutting device	H. M. Handsby	354,410	Dec. 14	1102	296	37	1215
Cheese from milk. Manufacture of artificially-enriched	E. J. Oatman	346,062	July 20	1801	.....	36	336
Cheese-knife	J. Buchholz	352,441	Nov. 9	1012	273	37	655
Cheese-knife	W. McGiven, A. L. Nichols, and G. Darnell.	349,732	Sept. 28	1652	426	36	1377
Cheese-knife	G. T. Moran	346,557	Aug. 3	134	37	36	486
Cheese-making apparatus	F. Gebhardt	354,314	Dec. 14	983	260, 261	37	1192
Cheese-safe	C. R. Ellis	353,546	Nov. 30	2564	684	37	971
Chemical engine	H. A. Hutson	343,317	June 8	793	198	35	1159
Chenille	J. Frelbohr	336,515	Feb. 16	2042	536	34	817
Chenille fringe. Making	L. D. Valetton	341,078	May 4	142	42	35	531
Chenille ornament	C. A. Schmidt	335,315	Feb. 2	321	84	34	499
Chenille pendant	B. Dreyfus	344,570	June 29	2555	661	35	1500
Cheroot, cigarette, and cigar bunch machine	J. S. Goldsmith	339,403	Apr. 6	412	101, 102	35	77
Chest: *See* Camping-chest. Medicine-chest. Flour-chest.							
Chicken-feeder	A. S. Sherman	342,546	May 25	2203	583	35	938
Chicken-house	R. Bentley	336,379	Feb. 16	1861	488	34	785
Chickens of the gapes. Device for curing	R. B. Walker	343,145	June 1	536	136	35	1104
Child's chair	F. A. Parker	336,942	Mar. 2	82	22	34	941
Child's chair	F. A. Parker	342,841	June 1	94	24	35	1023
Chill. Hollow	H. B. Stanert	345,455	July 13	917	230	36	170
Chimney. Adjustable	J. D. Jillson	334,587	Jan. 19	1548	414	34	300
Chimney and flue cleaner	J. H. Rowlett, D. F. Webster, and P. Pfeiffer.	344,460	June 29	2397	618	35	1471
Chimney and ventilator. Combined	J. S. Eberhart	340,299	Apr. 20	1730	440	35	321
Chimney and ventilator. Combined	S. W. Skipworth	340,379	Apr. 20	1842	472, 473	35	343
Chimney-cap	T. Edwards	336,707	Feb. 23	2318	607	34	873
Chimney-cap	E. Mignault	343,186	June 8	602	149	35	1125
Chimney-cap	W. L. Stevens	347,394	Aug. 17	1284	342	36	718
Chimney-cap and ventilator	W. J. and C. Kayser	335,362	Feb. 2	387	100	34	511
Chimney cap and ventilator	F. W. Wohlfert	352,597	Nov. 16	1210	328	37	700
Chimney-cowl	T. J. Bradbeer	350,806	Oct. 12	994	266	37	187
Chimney-cowl	N. Clifford	344,565	June 29	2550	659	35	1499
Chimney-cowl	H. F. Seidel	337,022	Mar. 2	195	51	34	961
Chimney-cowl. Ventilating	M. W. Costello	339,863	Apr. 13	1105	275	35	203
Chimney-protector	J. H. Bailey	341,440	May 11	656	177	35	633
Chimney-top	C. W. Carll	338,249	Mar. 23	1849	486	34	1283
Chimney-top	A. Herendeen	344,832	July 6	40	10	36	9

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Chimney-top	E. J. Trobridge and R. H. Conery	343,652	June 15	1285	323	35	1254
Chimneys, &c. Apparatus for climbing	J. Brown	350,289	Oct. 5	235	74	37	53
Chimneys. Construction of	J. G. Vaughan	341,362	May 4	549	151	35	604
Chimneys on burners. Device for holding and locking	J. R. Bowers	334,161	Jan. 12	939	254	34	181
Chimneys. Thimble for	C. F. Green	343,581	June 15	1196	300	35	1237
China-firing apparatus	S. S. Frackelton	349,935	Sept. 28	1918	497	36	1429
Chip-breaker	A. C. Dumontier and A. Plourde	336,845	Feb. 23	2499	658	34	907
Chisel	J. Roberts	346,948	Aug. 10	644	172	36	592
Chisel-bar for scraping soda-kettles, &c.	J. Evers	337,488	Mar. 9	844	214	34	1084
Chisel. Cold-	C. J. Phillips	349,119	Sept. 14	865	204	36	1198
Chisel. Mo tising-	B. W. Peterson and J. W. Connelly	339,606	Apr. 13	1029	255	35	188
Chlorine. Producing	G. Rumpf	348,348	Aug. 31	2658	.....	36	989
Chock-block	J. O. Johnson	340,880	Apr. 27	2536	667	35	473
Chocolate. Ferrated cake of	E. A. Parnell	335,952	Feb. 9	1221	.....	34	666
Cholera. Remedy for	A. T. Estabrook	354,975	Dec. 28	1922	.....	37	1386
Chopper: *See* Clod-chopper. Vegetable-chopper. Cotton-chopper.							
Christmas-tree candle-holder	H. Gehnrich	347,873	Aug. 24	1985	526	36	855
Christmas-tree holder	J. C. Schoenthaler	345,925	July 20	1614	381	36	303
Christmas-trees with or without accompaniment of music. Mechanism for turning	J. C. Eckardt	333,617	Jan. 5	157	42, 43	34	31
Chrom-sphere or optical toy	H. A. Plimpton	342,264	May 18	1766	468	35	852
Chronograph. Circuit-testing	J. A. Tilden	342,481	May 25	2106	556 / 557	35	921
Chronometer-escapement	A. E. Müller	351,122	Oct. 19	1462	383	37	280
Chuck	G. A. Barnes	335,009	Jan. 26	2103	560	34	410
Chuck	E. F. Lindsey	347,491	Aug. 17	1422	378	36	743
Chuck	J. F. O'Neill	346,310	July 27	2151	553	36	412
Chuck	C. H. Reid. (Reissue)	10,766	Sept. 21	1551	401	36	1354
Chuck	C. W. Shartle	339,336	Apr. 6	319	80	35	60
Chuck	J. W. Strong	339,120	Mar. 30	3085	816	34	1505
Chuck	S. O. White	347,676	Aug. 17	1702	453	36	795
Chuck. Brace-	J. Chantrell	337,343	Mar. 2	481	127	34	1015
Chuck. Drill-	C. E. Stone	339,595	Apr. 6	533	180	35	129
Chuck for broom-barrels	J. H. Dakin	354,540	Dec. 21	1299	346	37	1257
Chuck for rock-drills	G. R. Cullingworth	345,834	July 20	1489	386	36	279
Chuck for rock-drills	J. and J. G. Throckmorton	347,397	Aug. 17	1287	343	36	718
Chuck. Hollow spindle-	A. E. Elmer	347,167	Aug. 10	958	256	36	650
Chuck. Lathe-	J. H. Curry	353,736	Dec. 7	119	33	37	1028
Chuck. Lathe-	E. Pement	334,893	Jan. 26	1949	519	34	383
Chuck. Lathe-	E. Pement	335,619	Feb. 9	746	199	34	581
Chuck. Lathe-	C. A. Singer	346,133	July 27	1896	490	36	363
Chuck. Lathe-	A. H. Stetson	354,266	Dec. 14	917	242	37	1180
Chuck. Lathe-	W. L. Sweetland	347,395	Aug. 17	1285	342	36	718
Chuck. Lathe-	J. H. Westcott	335,982	Feb. 9	1261	334	34	673
Chuck. Lathe-	J. H. Westcott	343,411	June 8	953	238	35	1188
Chuck. Lathe-	J. C. Williams	355,237	Dec. 28	2306	607	37	1459
Chuck. Truck-brass	H. Otto	341,767	May 11	1100	292	35	720
Chucks. Bushing for rock-drill	J. E. Denton	336,397	Feb. 16	1887	494	34	790
Churn	N. S. Andrews and H. F. Burnap	345,097	July 6	415	107	36	76
Churn	J. Askins	344,232	June 22	2087	534	35	1408
Churn	N. Barnesley	347,312	Aug. 17	1165	313	36	697
Churn	I. Bogart	347,916	Aug. 24	2047	543	36	867
Churn	M. S. Bowser	350,524	Oct. 12	594	165	37	115
Churn	H. F. Brammer and E. H. Schmidt	335,539	Feb. 9	923	243	34	613
Churn	G. Brush	338,136	Mar. 16	1697	442	34	1246
Churn	L. D. Bunce	337,238	Mar. 2	474	124 / 125	34	1013
Churn	W. M. Cline	340,194	Apr. 20	1575	398	35	293
Churn	D. Conover	340,767	Apr. 27	2386	629	35	446
Churn	J. M. Davis	343,627	June 15	1253	315	35	1248
Churn	W. W. Delano, Jr	336,217	Feb. 16	1634	427	34	743
Churn	O. B. Dike and E. N. Rood	352,811	Nov. 16	1501	404	37	753
Churn	L. Doell	343,016	June 1	327	84	35	1066
Churn	A. Farley	335,802	Feb. 9	1016	269	34	639
Churn	S. E. Foreman and F. T. Walls	348,002	Aug. 24	2171	577	36	869
Churn	J. H. Fox	342,346	May 25	1918	506	35	887
Churn	F. A. Frank	345,376	July 13	799	201	36	149
Churn	J. H. Gerken	337,573	Mar. 9	950	243	34	1103
Churn	J. P. Hachenberg and E. F. Radcliff	348,670	Sept. 7	191	51	36	1081
Churn	P. Hanersperger	340,115	Apr. 20	1446	366	35	270
Churn	T. H. Hester	334,586	Jan. 19	1547	414	34	300
Churn	G. W. Hinman	333,629	Jan. 5	170	46	34	33
Churn	J. Hultz	338,172	Mar. 16	1742	455	34	1255
Churn	W. Jarrell	334,229	Jan. 12	1046	278	34	202
Churn	M. E. Johnson	346,163	July 27	1943	500	36	372
Churn	C. Jones	345,060	July 6	370	93	36	68
Churn	J. P. Kelso	339,991	Apr. 13	1285	321	35	235
Churn	J. H. King and J. L. Mills	350,933	Oct. 19	1171	311	37	227
Churn	J. Lasswell	348,331	Aug. 31	2638	711	36	984
Churn	D. Lines and C. T. Long	343,771	June 15	1465	367	35	1286
Churn	C. A. Lorenz	339,308	Apr. 6	278	69	35	52
Churn	R. Lucas and W. Dootson	346,011	Feb. 9	1301	346	34	680
Churn	T. E. Macy	338,280	Mar. 23	1890	497	34	1290
Churn	C. A. Madsen	344,534	June 29	2514	648	35	1491
Churn	J. McIlwain	342,692	May 25	2315	611	35	958
Churn	J. D. Noble and B. F. Metzler	345,525	July 13	1038	264	36	192
Churn	J. N. Nutt	346,859	Aug. 3	508	139	36	559
Churn	J. W. Persohn	334,720	Jan. 19	1735	462 / 463	34	335
Churn	J. J. Pugh	347,827	Aug. 24	1921	510	36	844
Churn	A. J. Ramsey	340,154	Apr. 20	1507	381	35	282
Churn	J. B. Riley	348,639	Sept. 7	146	41	36	1074
Churn	C. H. Robison	338,786	Mar. 30	2607	687	34	1421

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Churn	D. Savage	351,655	Oct. 26	2257	584	37	432
Churn	C. Schifferly	337,440	Mar. 9	782	199	34	1074
Churn	J. E. Shaw and J. T. Simpson	336,354	Feb. 16	1829	480	34	779
Churn	G. B. Simonds	344,999	July 6	295	73	36	53
Churn	S. Smith	339,944	Apr. 13	1212	301	35	222
Churn	W. S. Smith	348,793	Sept. 7	342	93	36	111
Churn	D. B. Soper	349,759	Sept. 28	1686	436	36	1383
Churn	J. H. Taylor	345,087	July 6	402	101	36	73
Churn	J. L. Taylor	339,495	Apr. 6	548	133	35	101
Churn	L. A. and J. A. Trout	346,518	Aug. 3	90	24	36	477
Churn	A. Vésárhelyi	342,654	May 25	2351	624	35	965
Churn	H. J. Wagner	347,978	Aug. 24	2140	570	36	883
Churn	I. W. Walter	339,505	Apr. 6	561	135	35	104
Churn	A. Walters	347,849	Aug. 24	1947	517	36	850
Churn	G. W. Wehmeyer and B. C. Alford	341,525	May 11	767	206	35	655
Churn	B. P. White	349,376	Sept. 21	1152	298	36	1274
Churn	M. Wilbur	346,697	Aug. 3	310	86	36	522
Churn	W. G. Wise	347,020	Aug. 10	744	198	36	610
Churn	J. Wolf	351,555	Oct. 26	2101	545	37	404
Churn	R. A. Wooldridge	339,243	Apr. 6	183	48	35	35
Churn	R. L. Wright	342,770	May 25	2521	673	35	998
Churn. Barrel	J. Smith	344,503	June 29	2459	634	35	1483
Churn-closing device	J. H. Weber	337,006	Mar. 16	1525	396	34	1213
Churn. Cream-testing	N. S. Andrews and H. F. Burnap	334,924	Jan. 26	1991	530	34	390
Churn. Cream-testing	D. W. Curtis	342,336	May 25	1893	501	35	883
Churn. Cream-testing	J. F. Komp	346,051	July 20	1787	460, 461	36	333
Churn-dasher	W. E. Depp	352,610	Nov. 16	1228	333	37	703
Churn-dasher	W. H. Hanson	352,991	Nov. 23	1751	469	37	810
Churn-dasher	J. B. Mellor	349,854	Sept. 28	1820	470	36	1410
Churn-dasher	J. R. Palmer	342,839	June 1	90	23	35	1023
Churn-head	F. H. Haman	349,218	Sept. 14	931	239	36	1223
Churn-motor	R. R. Emerson	334,522	Jan. 19	1461	392	34	284
Churn-motor	S. C. Randles	341,945	May 18	1338	358	35	773
Churn-power	J. R. Douglass	341,803	May 18	1274	341	35	763
Churn. Rotary	G. A. Stafford	349,371	Sept. 21	1146	296	36	1273
Churn. Rotary	S. N. Utter	346,180	July 27	1963	506	36	376
Churn. Test	J. F. Komp	354,065	Dec. 7	600	165	37	1116
Churn. Vibrating	C. J. Fellrath	345,961	July 20	1663	430	36	312
Churning device	J. S. Dickey	343,015	June 1	326	83	35	1066
Churning or mixing machine	R. Morton	343,835	June 15	1534	388	35	1299
Chute. Ash	M. Mahoney	346,486	Aug. 3	47	12	36	469
Chute. Coal	J. Jopling	352,694	Nov. 16	1352	367	37	725
Chute. Coal-distributing	C. M. O'Donovan	352,344	Nov. 9	895	240	37	631
Chute for branding cattle and horses	N. C. Gillmore	350,484	Oct. 12	543	150, 151	37	107
Chute for feed-mangers	J. W. Fiske	351,505	Oct. 26	2036	529	37	391
Chute or water-way. Screened	L. B. Wells	340,264	Apr. 20	1600	427	35	312
Chute. Stock	B. F. and M. M. Watson	350,787	Oct. 12	967	259	37	183
Cider-machine	M. K. Brubaker	334,343	Jan. 12	1213	327	34	233
Cider-press	J. A. Fancher	341,466	May 11	1607	186	35	641
Cider-press	J. E. Jones	348,019	Aug. 24	2191	584	36	893
Cigar	G. Baer	348,814	Sept. 7	367	99	36	1116
Cigar	C. C. Cook	346,025	July 20	1758	452	36	327
Cigar	E. Eblin	341,323	May 4	500	136	35	595
Cigar and ash holder. Combined	A. Mahon	348,471	Aug. 31	2838	763	36	1023
Cigar and cigarette machine	J. Thompson	353,517	Nov. 30	2515	671	37	961
Cigar-box	L. Levi	339,792	Apr. 13	1013	250	35	185
Cigar-box	D. E. Powers	336,432	Feb. 16	1935	507	34	799
Cigar-box	D. E. Powers	336,433	Feb. 16	1936	507	34	799
Cigar-box	D. E. Powers	348,828	Sept. 7	531	140	36	1145
Cigar-box	D. E. Powers	352,200	Nov. 9	707	189	37	596
Cigar-box clasp	C. Kunze	333,640	Jan. 5	187	50	34	37
Cigar-bunch turner and perforator	C. A. Bayler and B. F. Strickler	334,687	Jan. 19	1688	451	34	326
Cigar-bunches. Machine for making	J. C. Johnston	341,807	May 11	1146	304	35	729
Cigar-bunches. Machine for making	J. C. Johnston	341,808	May 11	1148	304	35	730
Cigar-bunching machine	C. A. Bayler	335,731	Mar. 9	1140	295	34	1137
Cigar-bunching machine	N. H. Borgfeldt	349,336	Sept. 21	1074	276	36	1260
Cigar-bunching machine	N. H. Borgfeldt and A. C. Schutz	345,614	July 13	1157	297	36	214
Cigar-bunching machine	N. H. Borgfeldt and A. C. Schutz	349,335	Sept. 21	1072	275, 276	36	1259
Cigar-bunching machine	G. E. Bovee and S. Belmont	339,850	Apr. 13	1089	271	35	200
Cigar-bunching machine	F. C. Miller	344,295	June 22	2164	553	35	1421
Cigar-bunching machine	F. C. Smalstig	340,380	Apr. 20	1843	473	35	343
Cigar-bunching machine	F. C. Smalstig	347,257	Aug. 10	1077	288	36	671
Cigar-bunching machine	F. C. Smalstig	352,012	Nov. 2	410	111, 112	37	534
Cigar-bunching machine	W. M. Steinle	354,444	Dec. 14	1148	307, 308	37	1223
Cigar-bunching machine	F. and E. H. Thompson	349,069	Sept. 14	731	186, 187	36	1185
Cigar-bunching machine	F. Thurnau and A. Hampe	343,349	June 8	858	216	35	1170
Cigar-bunching machine	J. R. Williams	346,628	Aug. 3	240	63	36	505
Cigar-bunching machines. Feeding device for	S. A. Shepard	352,491	Nov. 9	1070	288	37	667
Cigar-bundling machine	T. W. Haus	352,749	Nov. 16	1416	382	37	739
Cigar-bundling machine	F. T. Karsch	348,745	Sept. 7	286	76, 77	36	1101
Cigar-bundling machine	M. Kinports	341,487	May 11	717	193	35	645
Cigar bundling press	W. Wassung	353,521	Nov. 30	2521	672	37	962
Cigar clipper and lighter	F. M. Wirtz	343,746	June 15	1434	358	35	1280
Cigar-cutter	B. D. Ellers	344,362	June 29	2273	584	35	1448
Cigar-cutter	G. R. Pohl	351,886	Nov. 2	223	63	37	499
Cigar-cutter	E. P. Stewart	350,217	Oct. 5	173	50	37	36
Cigar-cutter and match-box. Combined	C. S. Alden	334,405	Jan. 19	1298	351	34	255
Cigar-cutters. Dice-throwing attachment for	C. E. Baldwin	346,453	Aug. 3	4	2	36	461
Cigar-holders and pipe-stems. Attachment for	W. B. Haas	350,359	Oct. 5	344	99	37	70

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cigar-holders and other articles from soluble and non-soluble gums. Manufacturing	A. C. Lutz	345,243	July 6	611	154	36	111
Cigar-lighter	J. M. King	342,913	June 1	191	49	35	1040
Cigar-lighter and perfumery-ejector combined	H. Munk	348,409	Aug. 31	2747	738	36	1005
Cigar-machine	W. M. Steinle	354,491	Dec. 14	1218	326	37	1235
Cigar-machine	J. G. Strothoff, Jr	333,976	Jan. 5	657	179	34	123
Cigar-machine	G. W. Tanner	340,741	Apr. 27	2353	619 620	35	440
Cigar-machine	J. R. Williams	346,627	Aug. 3	226	62, 63	36	504
Cigar-machine	J. R. Williams	353,907	Dec. 7	371	99	37	1074
Cigar-mold	C. A. Valentin	334,492	Jan. 19	1421	382	34	277
Cigar-molding machine	S. Cohn	337,665	Mar. 9	1058	272	34	1123
Cigar-perforator	C. A. Bayler and B. F. Strickler	334 686	Jan. 19	1687	450	34	326
Cigar-press	A. Rein	340,359	Apr. 20	1820	467	35	379
Cigar-rest and match-safe. Combined	J. E. Gavin	340,775	Apr. 27	2396	632	35	448
Cigar-rolling machine	J. W. Cameron	338,921	Mar. 30	2799	738	34	1456
Cigar-rolling machine	O. Hammerstein	348,206	Aug. 31	2473	665	36	952
Cigar-rolling table and wrapper-cutter. Combined	J. R. Williams	335,263	Feb. 2	251	66	34	485
Cigar-seller. Automatic	C. O. Cole	352,397	Nov. 9	958	257	37	645
Cigar-tip	A. S. Rosenbaum	348,347	Aug. 31	2658	716	36	988
Cigar-tray	G. Laube	347,182	Aug. 10	978	261	36	653
Cigar-wrapper cutter	L. D. Bailey	355,051	Dec. 28	2034	534	37	1404
Cigar-wrappers. Machine for cutting	J. R. Williams	340,180	Apr. 20	1552	392	35	289
Cigars. Machine for stamping	L. Grathwol	337,322	Mar. 2	595	156	34	1036
Cigarette-bundling machine	R. S. Kinney and W. H. Butler	353,866	Dec. 7	303	79, 80	37	1062
Cigarette-holder	C. Stoppa	340,064	Apr. 13	1379	347	35	252
Cigarette-machine	A. E. Decouflé	345,415	July 13	859	214 215	36	160
Cigarette-machine	J. Floyd and E. J. McCrossin	342,344	May 25	1908	504 505 506	35	885
Cigarette-machine	F. Hipgrave	353,945	Dec. 7	425	115 116	37	1084
Cigarette-machine	A. De Zayas y Moreno	353,054	Nov. 23	1852	500 501	37	827
Cigarette-machine. Pocket	L. L. Arnold	338,580	Mar. 23	2297	601	34	1361
Cigarette-machine. Pocket	T. Toske	346,076	July 20	1820	470	36	340
Cigarette mouth-piece	M. C. Stone	345-869	July 20	1537	397	36	287
Cigarette-tubes. Apparatus for manufacturing	A. E. Decouflé	349,785	Sept. 28	1725	445	36	1391
Circuit-changer. Automatic	E. T. Gilliland	334,014	Jan. 12	709	195	34	140
Circuit-closer	H. B. Cox	352,043	Nov. 2	454	123	37	544
Circuit-closer	H. H. Hoffman	343,373	June 8	893	225	35	1177
Circuit-closer	W. B. Manny	354,919	Dec 28	1849	489	37	1371
Circuit-controller. Automatic safety	O. F. Jönsson	338,752	Mar. 30	2561	676	34	1413
Cisterns. Device for cleaning	J. B. Kibler	350,536	Oct. 12	609	168	37	118
Clamp: *See* Barrel-clamp. Insulating-clamp. Bedstead-clamp. Jar-clamp. Belt-clamp. Keying-clamp. Bench-clamp. Meat-clamp. Billiard-cue clamp. Miter-frame clamp. Clothes-line clamp. Overshoe-clamp. Corner-clamp. Pie-crust clamp. Dam-clamp. Printer's form-clamp. Fence-clamp. Rope-clamp. Floor-clamp. Rubber-dam clamp. Flooring-clamp. Scaffold-clamp. Flooring and ceiling clamp. Sucker-rod clamp. Trunk-clamp. Furniture-clamp. Trouser-clamp. Gaff-clamp. Tube-clamp. Hose-clamp. Wheelwright's clamp. House-clamp.							
Clamp	J. K. Bittenbender	339,367	Apr. 6	364	89	35	68
Clamp	G. Blythe	344,713	June 29	2735	710	35	1534
Clamp	M. E. Converse	350,579	Oct. 12	674	184	37	129
Clamp	C. W. Cornell	342 187	May 18	1660	443	35	833
Clamp	J. Gift	344,101	June 22	1908	488	35	1375
Clamp	J. B. McRae	342,529	May 25	2181	578	35	933
Clamp	S. E. Nies	339,072	Mar. 30	3014	797	34	1492
Clamp	R. B. Poole	333,667	Jan. 5	221	61	34	43
Clamp	J. G. Wilber	353,726	Dec. 7	108	29	37	1026
Clamp for strings, &c	R. Lorenz	334,711	Jan. 19	1720	459	34	332
Clamp or holder	A. L. Hallbauer	344,651	June 29	2663	690	35	1522
Clamping-bracket	T. Thorn	334,825	Jan. 26	1868	497	34	368
Clamping device	C. A. Weller	351,550	Oct. 26	2095	544	37	403
Clamping device. Spring	I. W. Heysinger	334,016	Jan. 12	712	196	34	141
Clamping-tool	J. R. Cummings	337,743	Mar. 9	1153	299 300	34	1139
Clapboard-marker	J. F. Beebe	344,937	July 6	195	50	36	36
Clapboards. Adjustable gage for supporting	H. Brand and A. J. Vollrath	354,680	Dec. 21	1512	401	37	1295
Clapboards. Manufacture of ornamental	F. Mankey	346,209	July 27	2069	518	36	385
Clarifying extracts	A. Morand	338,431	Mar. 23	2106	.....	34	1328
Clasp: *See* Bag-frame clasp. Hitching-strap clasp. Bracelet-clasp. Leaf-retaining clasp. Book-clasp. Pencil-clasp. Chain-clasp. Rope-clasp. Cigar-box clasp. Shoe-clasp. Corset-clasp. Spring-clasp. Garment-clasp. Suspender-clasp. Garment-supporting clasp.							
Clasp	B. H. Bedell	350,228	Oct. 5	185	53	37	38
Clasp	L. Maudle	342,214	May 18	1693	451	35	839

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Clasp	A. Perry	337,862	Mar. 16	1315	341	34	1175
Clasp	F. E. Randall	341,276	May 4	424	116	35	583
Clasp	P. L. Ross	342,638	May 25	2335	617	35	963
Clasp	A. Schurch	333,679	Jan. 5	241	66	34	47
Clasp	C. C. Shelby	340,831	Apr. 27	2469	649	35	461
Clasp	C. C. Shelby	342,937	June 1	232	59	35	1047
Clasp and file	M. H. Kiebel	344,384	June 29	2304	594	35	1454
Clasp for poultry, game, &c. Suspension	J. P. Schüssler, Jr., and W. Fredericks	337,019	Mar. 2	193	51	34	960
Clasp for supporting articles	S. Wales	348,872	Sept. 7	447	119	36	1130
Clasp or buckle	E. S. Smith	338,792	Mar. 30	2615	689	34	1423
Clay, clay-shale, &c. Machine for disintegrating	J. C. Anderson	351,616	Oct. 26	2201	568, 569	37	421
Clay, clay-shale, &c. Machine for disintegrating	J. C. Anderson	351,617	Oct. 26	2202	569	37	421
Clay. Machine for working fire	J. H. Green	353,448	Nov. 30	2415	645	37	943
Clay reducer and pulverizer	J. C. Anderson	351,613	Oct. 26	2197	567	37	420
Clay-tempering machine	F. Middleton	343,472	June 8	1044	260	35	1203
Clay-tempering mill	R. Willing	342,277	May 18	1789	474	35	857
Cleaner: *See* Boiler-cleaner. Boiler-flue cleaner. Boiler-tube cleaner. Boot and shoe cleaner. Bottle-cleaner. Carpet-cleaner. Chimney and flue cleaner. Cotton-cleaner. Feed-water cleaner. Flue-cleaner. Grain-cleaner. Gun-cleaner. Horse and cattle cleaner. Knife-cleaner. Lamp-chimney cleaner. Lawn-cleaner. Pipe-cleaner. Slate-cleaner. Tobacco-pipe cleaner. Tube-cleaner. Window-cleaner.							
Cleaning-tool	C. L. B. Perkins	341,938	May 18	1336	356	35	772
Cleansing-machine	T. H. Page	334,132	Jan. 12	887	243	34	173
Cleats. Machine for making	C. J. Hager	349,587	Sept. 21	1438	371	36	1330
Clevis	H. F. Dunn	334,760	Jan. 26	1790	476	34	353
Clevis	B. L. Jennings	336,484	Feb. 16	2005	526	34	810
Clevis	R. Montfort	343,474	June 8	1047	260	35	1204
Clevis	A. W. Rumsey	353,506	Nov. 30	2499	667	37	958
Clevis	G. F. Walter	342,887	June 1	158	40	35	1034
Clevis	E. A. Walters and H. L. Ayres	340,838	Apr. 27	2479	653	35	463
Clevis. Plow	H. H. Butler	344,245	June 22	2103	538	35	1411
Clinometer	R. Gray	343,634	June 15	1263	318	35	1250
Clip: *See* Hame-clip. Newspaper-clip. Traveling-bag clip.							
Clip apparatus for transporting loads by means of ropes or cables.	J. P. Roe and P. R. Bedlington	338,615	Mar. 23	2344	612, 613, 614, 615, 616, 617	34	1369
Clip-iron and brace for carriages. Combined	R. Bean and A. W. Grant	350,103	Oct. 5	12	3, 4	37	5
Clipper. Hair	P. E. Beaudette	334,733	Jan. 26	1755	468	34	346
Clipper. Hair	S. W. Burwell	336,890	Mar. 2	9	3	34	928
Clipper. Hair	W. G. Hildebrand	341,006	May 4	48	12	35	514
Clipper. Hair	T. L. Phipps and W. Burman	335,956	Feb. 9	1227	326	34	668
Clipper. Hair	C. Reinhardt and H. Lebherz	339,811	Apr. 13	1034	256	35	189
Clipper. Hair	J. W. Smith and J. K. Priest	347,207	Aug. 10	1009	268	36	659
Clipping-machine	E. M. Burgess	347,263	Aug. 10	1085	290	36	672
Clipping machine. Hair	J. K. Priest	350,991	Oct. 19	1288	338	37	248
Cloak. Circular	J. M. Jacobs	342,359	May 25	1938	512	35	890
Cloak. Gossamer	B. and T. E. Goodrich	353,743	Dec. 7	127	35, 36	37	1030
Cloak. Gossamer	M. J. McCarthy	353,954	Dec. 7	441	120	37	1087
Cloak-rack	J. Bardsley	340,753	Apr. 27	2371	624, 625	35	443
Clock	W. D. Chase	337,377	Mar. 9	667	174	34	1056
Clock	J. H. Eastman	343,629	June 15	1256	316	35	1248
Clock	L. Feuerstein	352,309	Nov. 9	850	229	37	622
Clock	B. F. Flint	354,122	Dec. 14	692	185	37	1140
Clock	D. T. Garcia	349,878	Sept. 28	1846	477	36	1416
Clock-alarm	L. Hubbell	342,205	May 18	1682	449	35	837
Clock and clock system. Electric	J. E. Carey	341,449	May 11	667	180, 181	35	636
Clock and indicator systems. Electric	T. C. H. Vance	347,399	Aug. 17	1289	343	36	719
Clock. Calendar	U. V. Jaeggi	339,657	Apr. 13	837	203	35	152
Clock. Calendar	A. M. Lane	348,981	Sept. 14	606	160	36	1164
Clock. Calendar	A. M. Lane	348,982	Sept. 14	607	160	36	1164
Clock. Calendar	S. W. Ralph	354,346	Dec. 14	1030	274	37	1201
Clock. Calendar	F. M. Wright and W. M. Wood	349,025	Sept. 14	671	172	36	1174
Clock-case	E. M. Judd	340,950	Apr. 27	2626	692	35	489
Clock-case	J. G. Low	333,873	Jan. 5	515	140	34	96
Clock. Electric	J. E. Carey	334,745	Jan. 26	1769	471, 472	34	349
Clock. Electric	R. E. Fenner	345,292	July 13	688	173	36	130
Clock. Electric	D. T. Garcia	349,879	Sept. 28	1848	477	36	1416
Clock. Electric alarm	G. H. Davis	338,935	Mar. 30	2813	742	34	1460
Clock. Electric alarm	F. E. Derrick and S. C. Brott	351,746	Nov. 2	21	6	37	462
Clock. Electric alarm	C. Korfhage	337,067	Mar. 2	243	65	34	971
Clock. Electric-pendulum	F. and O. Haenichen. (Reissue)	10,720	May 11	1229	328, 329	35	745
Clock. Electric-pendulum	F. and O. Haenichen	342,086	May 18	1543	412	35	811
Clock. Electric programme	A. J. Reams	349,605	Sept. 21	1461	376	36	1335
Clock-escapement	C. Becker, Sr	334,068	Jan. 12	796	218	34	156
Clock-escapement	A. Dardenne	345,486	July 13	957	242	36	178

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Clock for transmitting signals. Electric	J. S. Bailey	353,840	Dec. 7	266	71	37	1055
Clock gong and bell	G. Gardner	334,012	Jan. 12	706	194	34	140
Clock hand and dial. Illuminated	A. Speer	347,528	Aug. 17	1470	390	36	751
Clock. Mechanical	O. Rebentisch	344,992	July 6	175	45	36	33
Clock mechanism for operating gas-cocks	C. E. Burnham	346,399	July 27	2273	583	36	435
Clock-movement	F. A. Lane	344,584	June 29	2569	665, 666	35	1503
Clock-movement	H. P. Pruim	347,737	Aug. 17	1783	475	36	810
Clock movement. Electric	S. C. Dickinson	334,517	Jan. 19	1456	391	34	283
Clock movement. Electric	S. C. Dickinson	346,094	July 27	1844	476	36	334
Clock movement. Electric	P. Lange	343,976	June 15	1720	440	35	1335
Clock-movement frame	S. P. Sandmark	352,715	Nov. 16	1381	373	37	731
Clock. Night	C. H. Shaw	339,220	Apr. 6	147	39	35	28
Clock-pendulum	S. Eastman	337,384	Mar. 9	676	177	34	1057
Clock pendulum-regulator	W. D. Davies	339,867	Apr. 13	1111	277	35	204
Clock-pendulums. Electrical device for synchronizing	H. Whiting	346,970	Aug. 16	671	179	36	597
Clock. Primary electric	C. A. Hussey	350,431	Oct. 5	447	127	37	87
Clock. Secondary electric	J. F. Hedge, Jr.	352,320	Nov. 9	864	233	37	625
Clock. Secondary electric	V. Himmer	337,583	Mar. 9	961	246	34	1105
Clock. Secondary electric	C. A. Hussey	350,433	Oct. 5	453	128	37	87
Clock. Self-winding electric	D. F. Sweet	337,797	Mar. 9	1321	317	34	151
Clock. Striking	H. L. Bruggemann and C. G. Orth	337,736	Mar. 9	1146	297	34	1138
Clock. Striking	H. F. Northrop	337,784	Mar. 9	1205	313	34	1148
Clock striking mechanism	G. W. Burgess	352,180	Nov. 9	683	182	37	591
Clock striking mechanism	A. Fischer	336,995	Mar. 2	150	41	34	952
Clock striking mechanism	A. Fischer	336,996	Mar. 2	151	41	34	953
Clock striking mechanism	F. Klinkermann	348,915	Sept. 7	510	135, 136	36	1141
Clock synchronizing device	C. H. Pond	339,688	Apr. 13	879	216	35	161
Clock-synchronizing device	A. Ramel and W. W. Dean	346,862	Aug. 3	512	140, 141	36	560
Clock system. Electric	J. E. Carey	340,483	Apr. 20	1976	508	35	368
Clock system. Electric	C. L. Clarke	347,572	Aug. 17	1536	408	36	764
Clock system. Electric	F. E. Fisher	336,004	Feb. 9	1291	343, 344	34	678
Clock system. Electric	C. D. Warner	335,860	Feb. 9	1089	287, 288	34	644
Clock. Twenty-four-hour striking	C. Stahlberg	344,209	June 22	2057	527	35	1402
Clock-winding mechanism	A. Craig and J. H. Eastman	343,947	June 15	1674	429	35	1327
Clocks and regulators. Stem winding and setting mechanism for	J. Zelly	342,415	May 25	2017	532	35	904
Clocks. Case for secondary electric	C. A. Hussey	350,435	Oct. 5	457	129	37	88
Clocks. Circuit-breaker for electric	J. Himmer	354,525	Dec. 14	1971	339	37	1245
Clocks. Circuit-closer for electric	C. H. Pond	338,773	Mar. 30	2593	683	34	1418
Clocks. Circuit-closer for primary electric	A. Ramel and W. W. Dean	346,863	Aug. 3	513	141	36	560
Clocks. Electric regulator for pendulum	S. Eastman	337,385	Mar. 9	677	177	34	1057
Clocks. Electric synchronizer for	M. E. Hunter and J. H. Gerry	349,650	Sept. 21	1509	391	36	1345
Clocks. Electric synchronizing mechanism for	J. S. Ross	341,111	May 4	190	59	35	540
Clocks. Electric winding device for	W. F. Weisgerber and I. C. Himmer.	350,177	Oct. 5	114	32	37	24
Clocks. Electro-magnetic device for winding	W. F. Sweet	334,822	Jan. 26	1864	496, 497	34	367
Clocks. Electro-mechanical synchronizer for	J. H. Gerry	349,493	Sept. 21	1314	342	36	1306
Clocks from a distance. Apparatus for regulating pendulum	G. W. Millard and J. H. Clarke	337,419	Mar. 9	735	189	34	1067
Clocks from a distance. Means for regulating marine	G. W. Millard and J. H. Clarke	337,418	Mar. 9	733	189	34	1066
Clocks from a distance. Means for regulating pendulum	G. W. Millard and J. H. Clarke	337,416	Mar. 9	726	188	34	1065
Clocks from a distance. Means for regulating pendulum	G. W. Millard and J. H. Clarke	337,417	Mar. 9	729	188	34	1066
Clocks. Music-box attachment for	C. H. Jacot	347,047	Aug. 10	782	208	36	617
Clocks. Pendulum for electric	J. J. Abell and C. B. Gifford	351,239	Oct. 19	1617	424, 425	37	309
Clocks. Pneumatic mechanical synchronizer for	J. H. Gerry and M. E. Hunter	349,494	Sept. 21	1316	342	36	1306
Clocks. Record-sheet for the dials of watchmen's time	O. E. Hausburg	344,479	June 29	2426	624	35	1476
Clocks. Step-by-step mechanism for electric	J. E. Carey	339,264	Apr. 6	215	54	35	40
Clocks. Winding and controlling system for electric	J. E. Carey	341,450	May 11	673	181	35	637
Clod chopper and pulverizer	D. Lubin	350,831	Oct. 12	1038	277	37	196
Clod-crusher	D. Lubin	350,832	Oct. 12	1039	277, 278	37	197
Clod-crusher	G. Munday and J. Coon	342,758	May 25	2509	668	35	995
Clod-crusher and harrow	J. P. Johnson	338,974	Mar. 30	2866	758	34	1469
Clod-crusher and land-marker. Combined	A. Bartmes, C. V. Whallon, and D. W. Frick.	342,995	June 1	301	77	35	1061
Clod-crusher and land-roller. Combined	G. N. Lake	353,952	Dec. 7	437	119	37	1086
Clod crusher and leveler	D. Lubin	350,205	Oct. 5	157	46	37	32
Clod crusher and pulverizer	T. F. Emans	339,391	Apr. 6	398	97	35	74
Clod crusher and pulverizer	F. Evison	347,098	Aug. 10	865	229	36	631
Clod crusher and pulverizer	M. C. Jett	353,408	Nov. 30	2359	628	37	931
Clod crusher and pulverizer	C. F. Marchand	343,046	June 1	385	98	35	1076
Clod crusher, pulverizer, and seeder	D. Lubin	354,513	Dec. 14	1232	335	37	1241
Clod-crusher, stalk-cutter, marker, and rake. Combined	A. Hollingsworth	335,926	Feb. 9	1189	316	34	660
Closet: *See* Dry-closet. Water-closet. Earth-closet.							
Closet and other doors. Indicator for	J. D. Vail	345,339	July 13	751	189	36	141
Cloth. Apparatus for steaming	C. Coupland	350,187	Oct. 5	126	35, 36	37	26
Cloth. Apparatus for stretching and drying	J. H. Varney	347,212	Aug. 10	1016	270, 271	36	660
Cloth-cutting machine	F. L. Eschbach	335,996	Feb. 9	1282	340	34	677

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cloth-cutting machine	G. J. W. Galster	353,552	Nov. 30	2572	686, 687, 688	37	973
Cloth-cutting machine	P. Howe	355,086	Dec. 28	2680	546	37	1414
Cloth-cutting machine	J. Thomas	340,964	Apr. 27	2647	697	35	493
Cloth-cutting machines. Sharpening mechanism for.	P. Howe	355,085	Dec. 28	2049	546	37	1413
Cloth doubling and rolling-up machine	C. C. Webber	345,344	July 13	756	190	36	142
Cloth. Finishing imperfectly-woven	N. T. Mash	350,008	Sept. 28	2024	.....	36	1449
Cloth-folding machine	J. D. Elliot	342,190	May 18	1664	444	35	833
Cloth. Frame for making shade	F. Schwanhausser	351,206	Oct. 19	1577	414	37	302
Cloth laying and cutting machine	A. J. Tower	354,952	Dec. 28	1894	499, 500	37	1380
Cloth. Machine for singeing	W. Banks and S. Brierley	353,194	Nov. 23	2055	548	37	869
Cloth. Machine for winding	J. E. Windle	349,774	Sept. 28	1710	441	36	1387
Cloth-pressing machine	F. Kühne	349,436	Sept. 21	1232	319, 320	36	1289
Cloth-sponging machine	R. Schmitt	336,752	Feb. 23	2375	632	34	884
Cloth-tentering machine	R. S. Matteson	350,009	Sept. 28	2025	523	36	1449
Cloth-winder	A. Brown	351,092	Oct. 19	1424	373, 374	37	273
Clothes-boiler	L. Kaliski	353,563	Nov. 30	2587	691	37	975
Clothes-drier	J. J. Bisel	342,317	May 25	1869	495	35	879
Clothes-drier	J. J. Bisel	355,125	Dec. 28	2138	563	37	1425
Clothes-drier	J. A. Bogle	334,559	Jan. 19	1515	405	34	293
Clothes-drier	H. F. Bolton and T. Drake	348,882	Sept. 7	467	123	36	1133
Clothes-drier	J. Carr	338,924	Mar. 30	2801	739	34	1457
Clothes-drier	I. V. Cooley	344,628	June 29	2636	682	35	1516
Clothes-drier	P. Deverell	337,566	Mar. 9	942	241	34	1102
Clothes-drier	J. V. Fleck	350,237	Oct. 5	194	55	37	40
Clothes-drier	C. Goodyear and W. Morse	334,656	Jan. 19	1646	440	34	318
Clothes-drier	G. H. Hayes	349,092	Sept. 14	768	196	36	1191
Clothes-drier	J. H. Morlan	339,678	Apr. 13	859	211	35	158
Clothes-drier	H. Normandy	338,288	Mar. 23	1896	498	34	1291
Clothes-drier	R. F. Redick	334,982	Jan. 26	2066	551, 552	34	403
Clothes-drier	D. J. Smith	349,410	Sept. 21	1197	310	36	1283
Clothes-drier	H. Springer	342,472	May 25	2095	553	35	919
Clothes-drier	T. Trenble	353,332	Nov. 30	2241	600	37	910
Clothes-drier	W. A. Waldron	343,555	June 8	1146	289	35	1222
Clothes-drier	H. Waterman	351,300	Oct. 19	1702	446	37	323
Clothes-drying apparatus	J. W. Miller	347,248	Aug. 10	1066	286	36	670
Clothes-fork	A. J. Sloan	338,109	Mar. 16	1666	433	34	1239
Clothes-hanging device	F. J. Rennekamp	346,683	Aug. 3	291	80	36	518
Clothes-hook	E. W. Philbrook	335,237	Feb. 2	217	57	34	479
Clothes-hook	I. Rubenstein	338,677	Mar. 23	2435	642	34	1385
Clothes-line	A. G. P. Dorsey	336,705	Feb. 23	2317	606	34	873
Clothes-line	T. F. Durand	349,147	Sept. 14	840	214	36	1205
Clothes-line clamp	G. Jurick	350,980	Oct. 19	1248	332	37	241
Clothes-line fastener	J. J. Hughes	339,551	Apr. 6	649	157	35	117
Clothes-line fastener	I. Kohn	338,159	Mar. 16	1726	450	34	1252
Clothes-line frame	C. L. Williams	352,021	Nov. 2	423	114	37	537
Clothes-line holder	A. Montgomery	351,199	Oct. 19	1569	412	37	301
Clothes-line prop	M. Raughtigan	344,402	June 29	2326	599	35	1158
Clothes-line reel	J. M. Robbins	341,349	May 4	528	146	35	600
Clothes-line reel	D. W. Travis	337,799	Mar. 9	1223	318	34	1152
Clothes-line reel and house	R. F. Fowler	337,758	Mar. 9	1171	305	34	1142
Clothes-line stretching device	F. Schweizer	337,020	Mar 2	193	51	34	960
Clothes-line support	C. G. Udell	350,173	Oct. 5	108	31	37	23
Clothes-pin	S. E. Bergeron	353,619	Nov. 30	2671	716	37	990
Clothes-pin	W. H. Johnson and O. C. Mann	344,110	June 22	1921	491	35	1377
Clothes-pin	J. K. P. Nourse	335,299	Feb. 2	298	79	34	494
Clothes-pounder	A. A. Brooks	333,916	Jan. 5	570	154	34	107
Clothes-pounder	S. C. Hill and H. D. Crooker	334,379	Jan. 12	1254	338	34	240
Clothes-rack	W. P. Brooks	348,510	Aug. 31	2895	778	36	1033
Clothes-rack	W. H. Ertell	342,954	June 1	255	65	35	1052
Clothes-rack	D. D Gordon	351,373	Oct. 26	1808	475	37	349
Clothes-rack	I. F. Howell	346,816	Aug. 3	445	132	36	547
Clothes-rack	E. G. Hurd	335,073	Jan. 26	2200	584	34	427
Clothes-rack. Folding	T. Adams, Jr	338,011	Mar. 16	1532	397	34	1214
Clothes-rack stand	W. H Thurston	345,741	July 20	1358	353, 354	36	257
Clothes-support	W. F. Krull	341,022	May 4	65	18	35	518
Clothes-tongs	B. I. Williams	342,414	May 25	2016	532	35	904
Clothes-washer	H. Wright	336,369	Feb. 16	1849	485	34	782
Clothes-washer. Steam	C. Boaz	349,140	Sept. 14	832	212	36	1204
Clothes-wringer	J. J. Brinkerhoff	345,952	July 20	1651	426	36	309
Clothes-wringer	H. C. Hopkins	351,179	Oct. 19	1546	405	37	296
Clothes-wringer	M. G. Lovell	344,745	June 29	2724	720	35	1545
Clothes-wringer	C. K. Stinson	341,819	May 11	1169	312	35	734
Clothes-wringer	C. K. Stinson	343,970	June 15	1714	438	35	1334
Clothes-wringer	R. Zimmerman	344,337	June 22	2228	574	35	1434
Clutch	M. W. Grovesteen	347,708	Aug. 17	1746	465	36	803
Clutch	E. D. Mackintosh	339,310	Apr. 6	259	70	35	52
Clutch	C. Scott	337,021	Mar. 2	194	51	34	961
Clutch	A. L. Stanford	346,784	Aug. 3	410	113	36	540
Clutch and brake for power-presses	H. S. Hitchcock	351,438	Oct. 26	1930	503	37	369
Clutch-coupler. Automatic	J. B. Pugh	342,038	May 18	1461	391	35	796
Clutch-coupling	B. F. Applegate	344,611	June 29	2609	676	35	1511
Clutch for lifting-jacks	A. A. Strom	347,379	Aug. 10	1105	296	36	676
Clutch for machinery	W. Whitehead and F. W. Maguire	336,273	Feb. 16	1714	447	34	757
Clutch for sliding joints	J. H. Rouse	346,867	Aug. 3	521	142	36	561
Clutch. Friction	H Barnes	350,798	Oct. 12	992	266	37	187
Clutch. Friction	F. M. Blake	348,612	Sept. 7	112	32	36	1067
Clutch. Friction	J. W. Blodgett	339,259	Apr. 6	208	53	35	39

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Clutch. Friction	J. W. Blodgett	340,974	May 4	5	2	35	506
Clutch. Friction	W. P. Brett	335,106	Feb. 2	7	2	34	442
Clutch. Friction	O. Flohr	351,370	Oct. 26	1802	474	37	348
Clutch. Friction	J. R. Little	335,463	Feb. 2	522	137	34	535
Clutch. Friction	J. Macdonald	334,448	Jan. 19	1352	366	34	265
Clutch. Friction	E. Salomon	354,242	Dec. 14	873	231	37	1173
Clutch. Friction	E. L. Street	354,494	Dec. 14	1222	327	37	1236
Clutch. Friction	W. B. Tatro	337,693	Mar. 2	204	54	34	963
Clutch mechanism	F. M. Waters	351,009	Oct. 19	1314	345	37	253
Clutch mechanism. Ratchet	E. P. Howe	344,528	June 29	2504	645	35	1489
Coach-platform	A. and C. E. Wnuck	340,068	Apr. 13	1385	348	35	253
Coaches. Step for passenger	M. E. Campany	354,769	Dec. 21	1640	434	37	1320
Coal-box	A. W. Tipton	344,759	June 29	2800	725	35	1545
Coal-breaker	E. B. Coxe	350,814	Oct. 12	1012	271	37	191
Coal-breaker	G. R. Root	342,811	June 1	51	13	35	1015
Coal-bucket	J. Smith	335,249	Feb. 2	231	61	34	481
Coal-conveying apparatus	C. W. Hunt	349,309	Sept. 21	1043	267	36	1253
Coal-digging apparatus	J. W. Hewitt	341,240	May 4	378	104	35	574
Coal-hod	A. J. Rock	335,776	Feb. 9	980	259	34	623
Coal-loading apparatus	W. G. Barnard	333,585	Jan. 5	119	33	34	25
Coal, &c. Machine for washing	R. Robinson	344,545	June 29	2530	654	35	1494
Coal or other fuel. Compound for perfecting the combustion of	G. White	347,078	Aug. 10	839	.....	36	627
Coal-receptacle	H. Niehoff	346,676	Aug. 3	285	78	36	516
Coal-separator	J. Woolley, Sr	349,675	Sept. 21	1540	{397, 398}	36	1352
Coal-tipple	W. W. Rosensteel	333,891	Jan. 5	533	145	34	100
Coal-tipple	W. W. Rosensteel	335,632	Feb. 9	766	203	34	584
Coasting apparatus	J. F. Ferguson	349,152	Sept. 14	845	216	36	1206
Coat	E. Graser	349 374	Sept. 14	1006	257	36	1237
Coat, &c	P. F. Pauline	339,920	Apr. 15	1181	293	35	217
Coat	J. G. Weimer	351,549	Oct. 26	2094	543	37	402
Coat and hat hook	E. D. Lawson	353,567	Nov. 30	2590	691	37	976
Coat and hat rack	F. Westwood	350,789	Oct. 12	970	260	37	184
Coat-hanger	M. R. Maxwell	337,345	Mar. 2	620	163	34	1040
Coat-rack	A. Wiegard and G. Erhard	345,012	July 6	312	78	35	57
Coat. Reversible	J. Loewenthal	340,885	Apr. 27	2542	669	35	474
Coating corn-cob pipes. Composition for	Z. Foss	352,814	Nov. 16	1505	405	37	754
Coating the inside of vessels for holding oil, &c. Composition for	L. E. and D. F. Bowker	336,085	Feb. 16	1426	.....	34	708
Coating wood, cordage, &c. Compound for	T. P. Boscher	352,945	Nov. 23	1686	.....	37	798
Cob-carrier	F. Irwin	346,919	Aug. 10	615	162	36	585
Coca. Preparation of extract of	G. Brownen	339,262	Apr. 6	212	.....	35	40
Cock and coupling for barrels, &c. Combined	C. C. Linindoll	341,339	May 4	515	142	35	598
Cock and tap	C. M. P. Ladit	334,787	Jan. 26	1819	485	34	359
Cock. Automatic cylinder	P. M. Maines and D. E. Nugent	342,801	June 1	38	10	35	1013
Cock. Ball	H. C. Weeden	348,564	Aug. 31	2677	721	36	992
Cock box. Stop	F. Adee and B. C. Smith	343,416	June 8	957	239	35	1188
Cock box. Stop	B. C. Smith	334,137	Jan. 12	893	244	34	174
Cock box. Water street stop	A. W. Morgan	350,891	Oct. 12	1117	297	37	211
Cock. Cylinder	W. Stoffel	350,276	Oct. 5	241	70	37	50
Cock. Fluid	P. A. Bowen	347,156	Aug. 10	944	252	36	647
Cock for house-service and street-washer connections	J. Moss	353,423	Nov. 30	2376	634	37	935
Cock. Gage	J. B. Atwood and S. H. Howes	338,215	Mar. 16	1800	469	34	1266
Cock. Gage	T. B. Keim	340,582	Apr. 27	2130	550	35	402
Cock. Gas	E. P. Irons	337,161	Mar. 2	369	97	34	994
Cock. Self-acting gas	G. Nobes	354,021	Dec. 7	540	147	37	1105
Cock. Service stop	E. J. Brady	353,533	Nov. 30	2542	677	37	966
Cock. Shut-off	G. W. Bumgarner	346,462	Aug. 3	15	4	36	453
Cock. Stop	C. J. Mortimer	353,802	Dec. 7	210	56	37	1045
Cock. Stop	W. Swabel	343,283	June 8	742	184	35	1149
Cock. Stop and waste	J. H. Johnson	354,148	Dec. 14	735	198	37	1148
Cock. Stop and waste	J. M. McVey	340,807	Apr. 27	2440	642	35	456
Cock. Stop and waste	D. J. Murphy and H. F. Low	339,316	Apr. 6	288	72	35	55
Cocks. Indicator for gas	J. W. Eaton and G. Cash	340,495	Apr. 20	1998	513	35	372
Cockle and grain separator	J. B. Dishmaker	337,051	Mar. 2	227	60	34	967
Cockle-machine	F. Prinz	345,725	July 26	1333	345	36	253
Cockle-separating machine	C. D. Edwards	335,902	Feb. 16	1162	309	34	655
Cockle-separator	B. Cloutier	334,643	Jan. 19	1628	434	34	315
Cockle-separator	F. W. Howell	346,815	Aug. 3	441	{121, 122}	36	546
Cockle-separator	C. A. McCollom and M. Forder	336,655	Feb. 23	2251	586	34	859
Cocoa. Method of preparing	P. Lobeck	341,759	May 11	1092	.....	35	719
Cocoons. Separating the fiber of	H. R. Randall	335,958	Feb. 16	1229	.....	34	668
Coffee and peanut roaster	C. L. Cole	340,289	Apr. 20	1715	437	35	318
Coffee and spice mill	J. W. Miller	345,441	July 13	897	223	36	167
Coffee. Apparatus for treating	A. L. Saint-Aubin	344,597	June 29	2591	671	35	1507
Coffee-case	C. T. Luthy	345,242	July 6	610	154	36	110
Coffee-huller	J. Guardiola	339,288	Apr. 6	250	62	35	47
Coffee-huller	J. Guardiola	340,039	Apr. 13	1347	338	35	246
Coffee-huller	J. R. Merrihew	337,691	Mar. 9	1090	{281, 282}	34	1128
Coffee hulling and polishing machine	J. Smout	333,788	Jan. 5	400	108	34	75
Coffee, &c. Machine for separating	G. S. Hungerford	345,633	July 13	1190	306	36	220
Coffee-mill	F. Krater	350,139	Oct. 5	55	15	37	13
Coffee-mill	M. Lepage	339,870	Jan. 5	511	139	34	95
Coffee-mill	A. Shepard	349,062	Sept. 14	724	185	36	1183
Coffee-mill	F. Stamm	351,290	Oct. 19	1686	442	37	321
Coffee-mill	C. Tobias	345,742	July 20	1360	354	36	257
Coffee-mill attachment	E. U. Wiesendanger	349,021	Sept. 14	666	171	36	1173
Coffee-mill support	B. W. McCarty and F. P. Gagne	348,984	Sept. 14	610	161	36	1165
Coffee or cocoa. Clarifying	S. C. Davidson	352,808	Nov. 16	1497	.....	37	553
Coffee or peanut roaster	D. W. Hitchcock	337,403	Mar. 9	700	183	34	1061
Coffee or spice can. Sheet-metal	H. F. Griswold	345,780	July 20	1416	367	36	267

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Coffee or tea can	W. A. Krag	352,195	Nov. 9	701	187	37	595
Coffee or tea pot	J. P. Gronemeyer and J. Polster	335,070	Jan. 26	2197	584	34	426
Coffee or tea pot	W. H. Hopkins	346,044	July 20	1781	458	36	331
Coffee-pot	F. E. Baker	349,199	Sept. 14	907	233	36	1218
Coffee-pot	A. H. Denis	350,818	Oct. 12	1018	272	37	192
Coffee-pot	R. L. Gore	343,812	June 15	1511	380	35	1295
Coffee-pot	M. A. Henderson	346,914	Aug. 10	600	161	36	584
Coffee-pot	J. M. Lawrence	349,505	Sept. 21	1332	345	36	1309
Coffee-pot	J. O. Wilson and J. B. Coe	353,909	Dec. 7	376	100	37	1075
Coffee pot. Drip-	F. Ribbeok	346,774	Aug. 3	398	110	36	538
Coffee-pot handle	A. Jahant and D. Parker	336,323	Feb. 16	1786	467	34	770
Coffee-pot percolator	S. A. Milton	335,946	Feb. 9	1215	323	34	665
Coffee-pot. Steam	A. M. Amos	353,289	Nov. 30	2170	581	37	897
Coffee-pots. Float and ercolator for	M. Sheahan	354,490	Dec. 14	1217	326	37	1235
Coffee-roaster	H. F. Bock	346,459	Aug. 3	11	4	36	462
Coffee-roaster	T. B. C. Burpee	334,742	Jan. 26	1765	470	34	348
Coffee-roaster	O. E. Davidson	345,370	July 13	792	200	36	148
Coffee-roaster	J. T. Johnson	339,660	Apr. 13	830	204	35	153
Coffee-roaster	M. A. Laska	340,328	Apr. 20	1770	452	35	329
Coffee-roaster	J. Levy	344,388	June 29	2309	595	35	1455
Coffee-roaster	E. E. Mueller	342,834	June 1	84	21	35	1022
Coffee-roaster	T. J. Rundel	339,114	Mar. 30	3079	815	34	1504
Coffee, spice, &c. Mill or grinding	J. T. Clark and C. C. Clawson	349,693	Sept. 28	1573	408	36	1364
Coffer-dam, mill-dam, a. l similar works	J. B. Tainter	344,877	July 6	116	29	36	21
Coffin	S. E. Baker	342,242	May 18	1732	460	35	846
Coffin	W. J. Breed and P. G. Ober	353,916	Dec. 7	385	101	37	1077
Coffin	O. D. Byers	354,852	Dec 21	1741	461	37	1339
Coffin	M. H. Crane and D. M. Jewett	351,742	Nov. 2	48	5	37	462
Coffin	R. M. Fryer	340,038	Apr. 13	1347	387	35	246
Coffin	F. C. Goff	348,963	Sept. 14	577	153	36	1159
Coffin	D. R. Gould and P. Baldwin	347,172	Aug. 10	965	258	36	651
Coffin	W. R. Hassard	335,451	Feb. 2	506	132	34	532
Coffin	W. C. Lautner	336,416	Feb. 16	1914	502	34	795
Coffin	J. Maxwell	337,009	Mar. 2	176	46	34	957
Coffin	J. Maxwell	338,855	Mar. 30	2700	711	34	1439
Coffin	J. Maxwell	341,260	May 4	405	111	35	579
Coffin	B. Morris	338,607	Mar. 23	2332	610	34	1367
Coffin	C. J. Norden	337,426	Mar. 9	748	192	34	1069
Coffin	A. E. Ranck	354,437	Dec. 14	1142	305	37	1222
Coffin	N. Rappleyea and W. A. Sparks. (Reissue.)	10,774	Oct. 26	2354	612	37	450
Coffin	G. Reynolds	334,808	Jan. 26	1848	492	34	364
Coffin	G. Reynolds	350,155	Oct. 5	82	23	37	18
Coffin	L. K. Smedes	354,749	Dec. 21	1614	427	37	1314
Coffin	W. A. Sparks	335,848	Feb. 9	1075	284	34	641
Coffin	W. A. Sparks and N. Rappleyea	338,198	Mar. 16	1778	464	34	1262
Coffin	W. A. Sparks and N. Rappleyea	338,199	Mar. 16	1779	464	34	1263
Coffin attachment	S. O. Grover	344,901	July 6	151	38	36	27
Coffin-cases. Mold for making	W. R. Hassard	340,877	Apr. 27	2532	666	35	472
Coffin-handle	H. W. Morgan	352,096	Nov. 2	532	142	37	558
Coffin-handle	H. W. Morgan	354,802	Dec. 21	1681	444	37	1327
Coffin. Metallic	S. E. Baker	353,772	Dec. 7	164	46	37	1037
Coffin-platform for grav	S. Baker	349,421	Sept. 21	1213	315	36	1286
Coffins. Device for fastening	W. Hamilton	345,685	July 20	1277	331	36	243
Coffins. Device for locking	J. Q. A. Bennett	350,032	Sept. 28	2051	529	36	1454
Coffins. Ornamental nail for	O. McCarthy	348,030	Aug. 24	2208	589	36	896
Cog-wheels. Housing for	F. M. Roots	349,364	Sept. 21	1133	292	36	1271
Coin-counter	G. H. Wahler and L. H. Leber	340,392	Apr. 20	1857	477	35	346
Coin-holder	M. R McClintock	345,520	July 13	1006	255	36	187
Coin. Mechanism for changing	W. H. Fraen	344,824	July 6	26	7	36	7
Coins and other disks. Holder for	C. Seegmueller	346,564	Aug. 3	144	39	36	488
Coke-breaker	B. J. Allen	353,011	Nov. 23	1782	479	37	816
Coke-crusher	C. M. Keller	341,015	May 4	58	16	35	516
Cold and manufacture of ice and apparatus therefor. Production of	A. Schmitz	336,952	Mar. 2	93	25, 26	34	943
Cold. Liquid for the production of	A. J. Rossi	353,378	Nov. 30	2307	.....	37	922
Cold-storage chamber or refrigerator	G. C. Roberts	336,949	Mar. 2	90	24	34	942
Collapsible case	L. N. Singley	346,779	Aug. 3	404	111	36	539
Collar	F. Reiermeister, Jr	346,359	July 27	2081	535	36	399
Collar	R. Butterworth	344,031	June 22	1803	464	35	1356
Collar	G. N. March	337,176	Mar. 2	398	103	34	999
Collar	G. N. March	345,912	July 20	1598	412	36	300
Collar	G. N. March	345,913	July 20	1599	412	36	300
Collar	A. K. Merrill	346,669	Aug. 3	278	76	36	515
Collar	G. K. Snow	336,957	Mar. 2	99	27	34	944
Collar and cuff	W. P. Groom	336,006	Feb. 9	1294	344	34	679
Collar and saddle. Combined breast	C. G. Calo	339,372	Apr. 6	370	90	35	69
Collar-button and necktie-fastener. Combined	J. B. Cornish	352,301	Nov. 9	837	225	37	620
Collar coupling. Breast-	G. A. St. John	354,028	Dec. 7	530	149	37	1106
Collar fastener. Horse-	E. T. Lombard	349,943	Sept. 28	1931	499	36	1431
Collar fastening. Horse-	T. G. Gillespie and M. S. Cassan	334,370	Jan. 12	1246	336	34	238
Collar-folding machine	G. E. Norris	341,044	May 4	92	26, 27, 28, 29	35	522
Collar for horses. Breast-	A. W. Tourgee	343,210	June 8	633	157	35	1131
Collar. Horse-	J. Ambrose and G. J. Atkins	340,187	Apr. 20	1565	396	35	292
Collar. Horse-	W. L. Bailey, L. T. and L. D. Knight	343,748	June 15	1438	358	35	1280
Collar. Horse-	I. Bergman	354,377	Dec. 14	1064	285	37	1208
Collar. Horse-	J. L. Campbell	353,732	Dec. 7	116	32	37	1027
Collar. Horse-	M. T. Hayes	339,098	Mar. 30	3060	810	34	1500
Collar. Horse-	C. Ifland	339,892	Apr. 13	1144	284, 285	35	211
Collar. Horse-	W. G. Ruge and O. Evertz	336,869	Feb. 23	2526	666	34	912

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Collar. Horse	R. M. Sears	346,226	July 27	2028	523	36	389
Collar. Horse	P. Sheehan	347,967	Aug. 24	2128	567	36	881
Collar. Horse	P. R. Turneaure	336,964	Mar. 2	107	30	34	945
Collar. Lady's	G. N. March	345,911	July 20	1597	411	36	300
Collar or cuff	F M. Gates and E. D. Sargent	341,742	May 11	1071	285	35	715
Collar or cuff	J. G. Jarvis	343,963	June 15	1624	414	35	1317
Collar or cuff	E. Kipper	334,590	Jan. 19	1532	415	34	301
Collar or cuff	E. Kipper	344,281	June 22	2159	552, 553	35	1420
Collar or cuff	E. Kipper and J. G. Jarvis	336,521	Feb. 16	2050	538	34	818
Collar or cuff	J. D. Parsons	353,642	Nov. 30	2716	725	37	997
Collar or cuff	V. H. Rothschild	341,606	May 11	880	235	35	677
Collar-pad-attaching device. Horse	E. P. Robbins	342,931	June 1	221	57	35	1045
Collar-pad fastener. Horse	C. V. Bauer	341,719	May 11	1042	276	35	710
Collar pad. Horse	F. Burkhart	341,992	May 18	1397	373	35	783
Collar pad. Horse	W. Hurlburt and B. B. Havens	340,509	Apr. 20	2019	518	35	375
Collar pad. Horse	A. Ortmayer	335,143	Feb. 2	62	17	34	451
Collar pad. Horse	W H. Osmer	335,382	Feb. 2	414	107	34	516
Collar. Stock	J. H. Roberts	339,214	Apr. 6	140	37	35	27
Collar-stuffing machine	W. Foglesong	349,034	Sept. 14	683	176	36	1176
Collar-stuffing machine. Horse	W. Foglesong	349,035	Sept. 14	684	176	36	1176
Collar sweat-pad. Horse	J. H. Philpott	349,451	Sept. 21	1257	326	36	1294
Collars and cuffs. Manufacture of	E. Kipper	344,282	June 22	2159	553	35	1420
Collars. Making	F. Beiermeister, Jr	345,947	July 20	1644	423	36	308
Collars. Making	R. Butterworth	340,695	Apr. 27	2266	602	35	427
Collars. Metallic sweat-pad for horse	M. E. Lasher	351,272	Oct. 19	1662	436	37	317
Collars. Sweat-pad for horse	S. Barstow	353,913	Dec. 7	381	101	37	1076
Collars to military blouses. Making and attaching	J. Judge	352,468	Nov. 9	1046	281	37	662
Color compound Naphthol-black	M. Hoffmann and A. Weinberg	345,901	July 20	1582	.....	36	297
Color on wall-paper, cloth, &c. Compound for producing	J. H. Lange	343,378	June 8	908	.....	35	1179
Color or ink pad	J. B. Laughton	351,928	Nov. 2	289	80	37	511
Colors. Manufacture of archil-red azo	C. A. Martius	334,257	Jan. 12	1100	.....	34	212
Colors. Producing mixed azo	C. A Martius	344,971	July 6	239	.....	36	43
Colors. Wrapping	K. Edge	340,434	Apr. 20	1904	490	35	354
Coloring compound	A. M. Jacobs	342,207	May 18	1684	.....	35	837
Coloring-matter from nitrophenetol. Blue	C. Duisberg	342,432	May 25	2042	.....	35	908
Coloring-matter or dye-stuff from gallic acid. Manufacture of yellow	R. Bohn	348,613	Sept. 7	113	.....	36	1068
Coloring-matter. Production of	L. Schad	354,746	Dec. 21	1611	.....	37	1314
Coloring-matter. Production of yellow	F. Bender	344,075	June 22	1875	.....	35	1369
Coloring-matter. Production of yellow azo	F. Bender	341,991	May 18	1396	.....	35	785
Coloring-matter. Red	F. Bender	350,230	Oct. 5	186	.....	37	38
Coloring-matter. Yellow	F. Bender	350,229	Oct. 5	186	.....	37	38
Coloring or waterproofing compositions. Machine for coating textile materials, &c., with	W. T. Livingston	341,758	May 11	1090	290	35	719
Coloring yarn. Machine for	S. Sanford	346,950	Aug. 10	646	173	36	592
Colter	W. L. Gerard	351,631	Oct. 26	2228	576	37	426
Colter-fastening	H. Heidacker	340,506	Apr 20	2017	517	35	375
Colter. Plow	G. Stevens	343,503	June 8	1079	270	35	1210
Colter. Rolling	S. W. Ball	337,295	Mar. 2	558	147	34	1029
Colter. Rolling	L. D. Ball and J. T. Bender	352,510	Nov. 16	1096	296	37	679
Colter. Rolling	T. C. Belding	351,687	Oct. 26	2300	597	37	440
Colter. Rolling	H. H. Butler	340,906	Apr. 27	2567	676	35	478
Colter. Rotary	J. Feger	340,301	Apr. 20	1733	441	35	321
Colter. Self-clearing breaking-plow	B. C. Brownell	340,281	Apr. 20	1703	433	35	316
Colters and harrow-disks. Sharpener for	B. Stalcup	349,667	Sept. 21	1532	395	36	1350
Comb: *See* Curry-comb. Lease-comb.							
Comb and comb-cleaner. Combined	E. H. Cochen	339,380	Apr. 6	379	93	35	71
Combing and mixing bristles, &c. Machine for	G. E. Willet	350,649	Oct. 12	783	213, 214	37	149
Combing-machine	J., C., L., and M. Jefferson	353,224	Nov. 23	2089	559	37	875
Combing-machines. Apparatus for actuating dabbing-brushes for	O. B. Lister and H. Batty	342,701	May 25	2427	644	35	979
Combination-lock	A. J. Calhoun	335,337	Feb. 2	352	91, 92	34	504
Combination-lock	J. C. Culmer	338,586	Mar. 23	2303	603	34	1362
Combination-lock	C. F. Elliotto and J. W. McGarvey	340,942	Apr. 27	2617	689	35	487
Combination-lock	H. C. Griffin	342,958	June 1	259	67	35	1053
Combination-lock	J. H. and T. D. Morris	349,168	Sept. 11	869	222	36	1211
Combination-lock	H. W. Trognitz	353,238	Nov. 23	2106	564	37	879
Combination-lock	S. K. Weymouth	336,188	Feb 16	1579	415	34	735
Combination-lock for money-drawers, &c	H. M. Sturgis	338,205	Mar 16	1785	466	34	1264
Combination-table	J. P Farrell	342,343	May 25	1907	504	35	885
Combination-wrench	A. W Wright	341,117	May 4	202	62	35	542
Combustion and preventing the formation of smoke. Forming a perfect	J. A. Treacy	339,600	Apr 6	739	181	35	130
Combustion. Apparatus for promoting	W. Oliphant	341,680	May 11	993	263	35	700
Combustion of coal, &c. Compound for increasing	J. S. McIntyre	346,765	Aug. 3	388	.....	36	536
Comfortables from continuous fabric. Making	F. L. Palmer	354,806	Dec 21	1685	445	37	1328
Comminuted substances. Method of and apparatus for manipulating	A. Morand	338,430	Mar. 23	2103	551	34	1327
Commode	P. Bardon	352,388	Nov. 9	948	254	37	642
Commode	A. L. Ellison	341,135	May 4	229	68	35	547
Commode	J. A. Hackenberg	348,738	Sept. 7	277	74	36	1099
Commode	F. Mink	344,052	June 22	1833	471	35	1361
Commode. Arm	C. G. Udell	354,364	Dec. 14	1050	281	37	1206
Commode. Cabinet	E. S. Farson	345,890	July 20	1570	404	36	294
Commutator-lubricator	T. E. Adams	351,148	Oct. 19	1498	392	37	287
Compartment-tank	B. C. Shaw	349,528	Sept. 21	1360	353	36	1315
Compass attachment for maps	J. Adler	336,883	Mar. 2	1	1	34	927
Compass attachment for pencils	E. Weissenborn	341,081	May 4	144	43	35	539
Compass-faces. Instrument for engraving	V. L. Ourdan	344,676	June 29	2690	698	35	1527
Compass. Mariner's	E. Bisson	341,125	May 4	211	64	35	544

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Invention	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Compass. Mariner's signal	B. Arnold	338,160	Mar. 16	1727	451	34	1252
Compasses. Drafting	F. N. Gardner	349,840	Sept. 28	1801	465	36	1406
Compasses. Draftman's	J. F. Bennett and B. B. Smith	349,203	Sept. 14	913	234	36	1219
Composing-stick	C. Frecker	338,259	Mar. 23	1859	489	34	1285
Composing-stick	W. H. Golding	347,591	Aug. 17	1560	414	36	770
Composing-stick	H. Seger	339,056	Mar. 30	3020	798	34	1494
Compound	A. A. Aniba	342,313	May 25	1865	.....	35	879
Compound engine	E. Andrews	354,823	Dec. 21	1708	452	37	1333
Compound engine	W. H. Donaldson	333,507	Jan. 5	15	5, 6	34	6
Compound engine. Balanced	T. Main	354,644	Dec. 21	1462	388	37	1286
Compound engine. Reversible single-acting	J. H. Eickershoff	339,281	Apr. 6	239	60	35	44
Compound engine. Single-acting	J. H. Eickershoff	339,280	Apr. 6	237	59	35	44
Compound motive-power engine	C. Koch	347,619	Aug. 17	1604	425	36	773
Compounding or mixing machine	A. J. Summers	346,514	Aug. 3	84	22, 23	36	476
Compression-roll for slasher-dressers for cotton-warps	H. C. Lazelle	342,613	May 25	2298	608	35	955
Compression-roll for slashers, &c. Expanding	G. P. Whitman	342,889	June 1	159	41	35	1035
Compressor	F. Eibler	349,342	Sept. 21	1081	277, 278	36	1261
Compressor	J. A. Gaboury	342,198	May 18	1672	446	35	835
Compressor	C. Wakefield	349,542	Sept. 21	1379	358	36	1318
Compressor. Shock or bundle	W. Junk	352,758	Nov. 16	1429	385	37	741
Concentrating and amalgamating machine	H. B. Meech	340,142	Apr. 20	1490	377	35	278
Concentrating-pan	M. Swenson	353,515	Nov. 30	2512	670	37	961
Concentrator	J. E. Clayton and S. F. Mackie	344,520	June 29	2494	642, 643	35	1488
Condenser	L. Briggs	340,279	Apr. 20	1699	433	35	315
Condenser	J. B. Edmiston	351,585	Oct. 26	2155	537	37	412
Condenser	A. Fletcher	336,306	Feb. 16	1767	462	34	766
Condenser	E. T. Isbester	349,103	Sept. 14	766	199	36	1194
Condenser for finisher-cards	E. Wright	340,929	Apr. 27	2597	684	35	484
Condenser for pyroligneous acid	J. A. Mathieu	354,330	Dec. 14	1007	267	37	1196
Condenser. Jet	L. Schutte	344,502	June 29	2467	634	35	1483
Condenser. Steam	E. Baumann	340,084	Apr. 20	1414	358	35	264
Condenser. Steam	T. Blass	355,250	Dec. 28	2323	612	37	1462
Condenser. Steam	J. McIntyre	354,987	Dec. 28	1939	512	37	1328
Condenser. Steam-engine	R. Lees	333,763	Jan. 5	367	100	34	69
Condenser. Surface	B. S. Benson	346,348	July 27	2199	563, 564	36	420
Condenser. Surface	C. A. Dixon	351,583	Oct. 26	2150	556, 557	37	412
Condensing and cooling apparatus	H. Hocking	342,871	June 1	137	33	35	1030
Condiment-holder. Individual	G. Dowkontt	352,400	Nov. 9	962	258	37	646
Conductor-hook	W. H. Berger	345,477	July 13	945	238	36	175
Conductor. Underground	D. H. Dorsett	340,431	Apr. 20	1899	488, 489	35	354
Conductor's register	C. S. Morris	353,078	Nov. 23	1879	507	37	833
Conduit for electric conductors	D. H. Dorsett	340,432	Apr. 20	1902	489	35	354
Conduit for electric conductors	D. H. Dorsett	340,433	Apr. 20	1903	489	35	354
Conduit. Hot-blast	F. W. Gordon	340,110	Apr. 20	1442	365	35	269
Conduit or other pipe	D. N. Hurlbut	353,680	Dec. 7	42	11	37	1014
Conduit systems. Testing-station for	J. P. Munsie	348,572	Sept. 7	51	14	36	1057
Conduit. Underground	J. C. Anderson	349,472	Sept. 21	1285	334	36	1300
Conduit. Underground	J. Beeler	339,844	Apr. 13	1082	269	35	199
Conduit. Underground	R. Macdonald	344,843	July 6	66	16	36	13
Conduit. Underground	A. Wyckoff	343,354	June 8	868	218	35	1172
Conduits. Cleaning out	J. P. Messer	335,608	Feb. 9	732	195	34	579
Conduits or pipes. Die or forming	D. N. Hurlbut	353,681	Dec. 7	43	11	37	1015
Confectioner's dropping-tube	J. Bentel	347,460	Aug. 17	1382	367	36	735
Confectioner's melting-bath	A. Muser	345,251	July 6	624	159	36	113
Confectionery. Package for and method of packing	J. R. Stout	342,473	May 25	2095	554	35	919
Connecting-pin. Expandable	H. M. Montgomery	337,072	Mar. 2	249	66	34	972
Connecting-rod. Bearing-pin	L. H. Nash	334,036	Jan. 12	745	204	34	147
Connecting-rod for pistons, &c.	L. H. Nash	334,035	Jan. 12	743	203	34	146
Constant potential regulator	C. Hering	350,676	Oct. 12	817	222	37	156
Controlling mechanism for power-driven machinery	J. H. Rohme	336,350	Feb. 16	1823	479	34	778
Converter	W. M. Murdock	335,613	Feb. 9	739	197	34	580
Converter for making Bessemer metal	H. L. Gantt	343,448	June 8	1004	250	35	1196
Converters and furnaces. Lining for	W. L. Dudley	350,919	Oct. 19	1157	.....	37	225
Converters and furnaces. Lining for	W. L. Dudley	350,920	Oct. 19	1158	.....	37	225
Converters and furnaces. Lining for	W. L. Dudley	350,921	Oct. 19	1159	.....	37	225
Converters and furnaces. Lining for	W. L. Dudley	350,922	Oct. 19	1159	.....	37	225
Converters. Working	B. Bayliss, Jr	347,913	Aug. 24	2044	542	36	866
Convertible chair	N. Bartelle	340,754	Apr. 27	2372	625	35	443
Convertible chair	C. M. Hamilton	335,383	Feb. 2	379	74	34	490
Convertible chair	J. W. Kenna	338,231	Mar. 16	1821	476	34	1270
Convertible chair	J. W. Kenna	338,232	Mar. 16	1822	476	34	1270
Convertible chair	J. B. Ross	333,892	Jan. 5	535	145, 146	34	100
Convertible chair	A. P. Yarnall	335,410	Feb. 2	453	117	34	522
Convertible table, lounge and desk	D. Crowley	350,414	Oct. 5	413	118, 119	37	82
Conveyer	J. C. Conger and G. W. Henderson	351,965	Nov. 2	340	94	37	521
Conveyer	J. A. Jeffrey	340,321	Apr. 20	1759	449, 450	35	327
Conveyer	A. Wissler	351,014	Oct. 19	1319	346	37	254
Conveyer apparatus	G. C. Blickensderfer	338,703	Mar. 30	2482	655, 656	34	1399
Conveyer apparatus	G. C. Blickensderfer	338,704	Mar. 30	2484	656	34	1400
Conveyer apparatus	G. C. Blickensderfer	338,706	Mar. 30	2486	657, 658, 659	34	1400
Conveyer apparatus	H. Smith	340,633	Apr. 27	2195	578	35	413
Conveyer apparatus. Track for	G. C. Blickensderfer and H. Smith	338,705	Mar. 30	2485	657	34	1400
Conveyer. Chain	M. Garland	345,497	July 13	974	247	36	181

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr g.	Official Gazette. Vol.	Official Gazette. Page.
Conveyer. Spiral	R. Birkholz	355,124	Dec. 28	2136	561 / 562	37	1425
Conveyers. Stretcher for endless	S. K. Seelye	346,868	Aug. 3	523	142	36	562
Conveying apparatus	A. Wolcott	333,987	Jan. 5	673	184	34	126
Cooker. Farina	C. Carr	337,813	Mar. 16	1255	326	34	1164
Cooker. Steam	H. P. Roberts	354,240	Dec. 14	869	230	37	1172
Cooking and renovating apparatus. Steam	J. F. Parrish	350,657	Oct. 12	765	210	37	146
Cooking apparatus	C. Becker	348,821	Sept. 7	376	102	36	1117
Cooking apparatus	J. Vernon	349,288	Sept. 14	1020	261	36	1240
Cooking apparatus for military and other purposes. Field	A. L. Lineff and W. Jones	352,651	Nov. 16	1287	347	37	713
Cooking apparatus. Steam	D. D. Mounts	345,391	July 13	815	206	36	153
Cooking utensil	J. Farrell	343,234	June 8	672	167	35	1137
Cooking utensil. Steam	L. D. Jones	345,307	July 13	707	178	36	133
Cooking utensils. Device for carrying off smoke and steam from	J. D. Bowley	347,564	Aug. 17	1525	405 / 406	36	762
Cooking utensils. Wire basket for	P. Miller	348,988	Sept. 14	614	162	36	1165
Cooking-vessel	A. W. Obermann	334,459	Jan 19	1371	371	34	989
Cooking-vessel	A. W. Obermann	349,317	Sept. 21	1051	269	36	1255
Cooking-vessel	C. J. Parker	338,547	Mar 23	2250	591	34	1353
Cooking-vessel	A. G. Stanton	342,050	May 18	1479	396	35	798
Cooking-vessel. Steam	C. C. Danner	352,230	Nov. 9	743	199 / 200	37	602
Cooler: *See* Beer and water cooler. Milk-cooler. Water-cooler. Lead-cooler.							
Cooler and filter	M. McVoy	348,032	Aug. 24	2210	590	36	897
Cooler and filter. Combined	J. W. Frazee and A. J. Thomas	334,426	Jan 19	1328	359	34	260
Cooler and strainer for sirup and sugar. Self-	T. W. Lanier	333,706	Jan. 5	870	230	34	603
Cooling and disinfecting apparatus	L. H. Latimer	334,078	Jan. 12	807	222	34	158
Cooling and refrigerating apparatus	E. Kauffeld	343,035	June 1	361	93, 94	35	1072
Cooling liquids and other articles, commonly called "ice-machines." Machine for	E. E. Hendrick	336,235	Feb. 16	1666	433 / 434	34	748
Cooling-room and disposing of noxious gases therein.	F. Hainsworth	341,906	May 18	1292	345	35	765
Cooling storage-chambers Device for	A. F. Cramer	346,807	Aug 3	435	119	36	544
Coop. Chicken	E. Modlin	340,144	Apr 20	1493	378	35	279
Coop. Folding	A. Gamard	354,894	Dec 28	1814	479	37	1365
Coops. Feed-trough for poultry	J. O. Beazley	341,211	May 4	327	92	35	565
Cop-winding machine	S. W. Holman	340,315	Apr. 20	1751	446	35	326
Cop-winding machine	G. H. McCausland	352,704	Nov 16	1365	369	37	728
Copper and copper alloys. Purifying and hardening.	F. M. Forman	352,615	Nov. 16	1236	.....	37	704
Copper from pyrites. Extracting	A. F. Wendt	345,401	July 13	836	.....	36	156
Copper matte. Treating and desilverizing	J. J. and R. Crooke	354,182	Dec 14	792	210	37	1158
Copper tubes. Manufacture of	W H Brown	348,718	Sept. 7	252	67	36	1094
Copy-holder	A. O. Hall	343,662	June 15	1296	325	35	1255
Copy-holder	A. Hayward, Jr	339,770	Apr. 13	987	244	35	189
Copy-holder	H. H. Wheeler	343,935	June 15	1660	426	35	1325
Copying and printing instrument	W. F. Kirtley and C R. Spurgeon	342,610	May 25	2296	607	35	955
Copying apparatus	N. C. Stiles	343,505	June 8	1081	270	35	1210
Copying device	W. Griffith	339,166	Apr. 6	67	20	35	15
Copying of pictures. Apparatus for facilitating	E. Charman	353,919	Dec. 7	388	102	37	1078
Copying-press	T. R. Boyd	336,096	Feb. 16	1427	376	34	708
Copying-press	H. Griffin	336,564	Feb 23	2117	555	34	836
Copying-press	E. M. Haines	339,878	Apr. 13	1126	280	35	207
Copying-press	D. Samuels and L. Breidenstein	341,056	May 4	115	34	35	526
Copying-press	S. H. Stupakoff	353,606	Nov 30	2646	707	37	986
Copying-press	G. W. Williams	338,625	Mar. 23	2362	623	34	1372
Copying press. Letter	H. Griffin	339,643	Apr 13	809	199	35	149
Copying-roller	J. B. Leckie	336,926	Mar 2	60	16	34	937
Cord and rope holder	O. Crocker	353,925	Dec. 7	395	104	37	1079
Cord and rope. Machine for making	M. S. Palmer	353,036	Nov. 23	1824	490 / 491	37	822
Cord-holder-operating mechanism	J. Howard, E. T. Bousfield, and G. Gibbs.	338,228	Mar. 16	1818	475	34	1269
Cord or band	J. Cadbury and J. G. Rollason	341,219	May 4	348	96	35	569
Cord or rope fastener	W. Nicolay	339,008	Mar. 30	2929	776	34	1479
Cords in the seams of textile and other fabrics. Method of inserting	J. Pusey	338,613	Mar. 23	2341	612	34	1369
Cords or braids to textile fabrics, &c. Method of and machine for fixing	E Cornely	340,422	Apr. 20	1890	486	35	352
Cordage. Composition for treating	W. H. Horner and F. Hyde	336,718	Feb. 23	2329	.....	34	875
Cordage, &c. Machine for making	J. P. Tolman	340,835	Apr. 27	2475	651 / 652	35	462
Cordage. Machine for making interlocked	B. Arnold	353,396	Nov. 30	2336	624	37	927
Core-box	A. Weber	336,458	Feb. 16	1973	517	34	805
Core material	W. N. Gartside	342,906	June 1	180	.....	35	1038
Core-rod	G. P. Reno	353,159	Nov. 23	2003	536	37	858
Core-strengthening bar	E. Niver	344,398	June 29	2321	598	35	1458
Cores. Apparatus for brushing and shaping sand	J. Fleming	334,423	Jan. 19	1325	358	34	259
Cores. Machine for covering wire and other	J. C. Belk	348,822	Sept. 7	376	102	36	1117
Cork-cutting machine	J. Liston	345,909	July 20	1592	410 / 411	36	299
Cork-extractor	W. L. Ames	345,822	July 20	1471	380	36	277
Cork-extractor	W. E. Crump, Jr	350,350	Oct 5	332	95	37	67
Cork-extractor	C. Tobias and E. W. Shoesmith	334,061	Jan. 12	785	215	34	154
Cork-extractor	H. Wahler	337,465	Mar. 9	817	206	34	1079
Cork-extractor and lemon-squeezer. Combined	C. Weekes	346,249	July 27	2069	532	36	397
Cork-fastener	W. M. Fischer	345,963	July 20	1665	431	36	312
Cork-holder	B. C. Wilson	351,680	Oct. 26	2291	593	37	438
Cork-puller	J. A. Hurley	348,743	Sept. 7	284	76	36	1100
Cork-puller	J. A. Hurley	348,911	Sept 7	504	134	36	1140
Cork-puller	J. A. Hurley	350,308	Oct. 5	277	79	37	56
Corking bottles. Hand implement for	B. P. Roberts	337,437	Mar. 9	777	198	34	1073

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Corkscrew	J. H. Cluever	344 566	June 29	2551	659	35	1499
Corkscrew	W. Crabb	337,309	Mar. 2	579	152	34	1033
Corkscrew	C. H. Hudson	353,860	Dec. 7	295	77	37	1060
Corkscrew	W. Schollhorn	350,702	Oct. 12	851	229	37	162
Corkscrew	W. B. Woodman	344,556	June 29	2542	657	35	1497
Corkscrew. Sideboard	A. F. Petersen	352,659	Nov. 16	1302	351	37	716
Corn and cotton sweep	S. T. Lewis and J. H. Babb	349,725	Sept. 28	1643	424	36	1375
Corn-cutting machine	G. Martin	346,210	July 27	2010	518, 519	36	385
Corn-drill	H. G. Swope	352,586	Nov. 16	1195	323	37	696
Corn hiller and cultivator. Combined	E. Minnich	340,345	Apr. 20	1796	460	35	334
Corn hulling and grinding machine	J. U. Aebi and J. Mühlethaler	349,418	Sept. 21	1909	213, 314	36	1285
Corn-husker	T. I. Ludwig	348,528	Aug. 31	2923	785, 786	36	1037
Corn-husker	D. T. Phillips	342,807	June 1	43	12	35	1014
Corn-husker	J. P. Withrow	356,974	Mar. 2	122	33	34	948
Corn-husking device	N. Evinger	337,141	Mar. 2	347	90	34	990
Corn-husking machine	P. D. Cummings	350,620	Oct. 12	738	200, 201, 202	37	142
Corn-knife and shield	G. H. Sawyer. (Reissue)	10 693	Feb. 23	2564	677	34	919
Corn. Machine for cutting and bunching	Z. T. and B. F. Parker	344,400	June 29	2323	599	35	1458
Corn. Machine for gathering	G. G. Westerfield	351,302	Oct. 19	1704	446, 447	37	324
Cornmeal and buckwheat-flour. Manufacturing	J. M. Case	344,518	June 29	2400	641	35	1487
Cornmeal. Manufacturing	J. M. Case	344,246	June 22	2105	538	35	1411
Cornmeal, &c. Packing and preserving	F. Dorsey	343,163	June 8	567	143	35	1119
Corn-roaster	F. P. Hoke	336,237	Feb. 16	1671	435	34	749
Corn-shaver	J. P. Davison	346,585	Aug. 3	169	45, 46	36	492
Corn-sheller	A. H. Patch	353,080	Nov. 23	1881	508	37	833
Corn-sheller	C. Roberts	353,885	Dec. 7	339	91	37	1069
Corn-sheller	C. Roberts	354,239	Dec. 14	863	229, 230	37	1172
Corn-sheller	C. Roberts	355,211	Dec. 28	2261	596	37	1451
Corn-sheller	A. F Root and C. B. Myers	350,642	Oct. 12	773	211	37	147
Corn-sheller	C. A. Williams	349,553	Sept. 21	1393	361	36	1321
Corn sheller and separator	C. Roberts	353,591	Nov. 30	2626	701	37	982
Corn-sheller elevator	C. Roberts	355,212	Dec. 28	2262	596	37	1451
Corn-sheller. Hand	T. Weaver	349,327	Sept. 21	1063	273	36	1257
Corn-shock-compressing device	M. T. Mahin	338,092	Mar. 16	1642	427	34	1235
Corn-shock compressor	A. C. Hedden	343,814	June 15	1513	381	35	1295
Corn-slicer	J. C. Wicker	335,664	Feb. 9	806	215	34	592
Cornstalk-cutter	H. Olson and J. Hogland	335,949	Feb. 9	1218	324	34	666
Cornstalk-cutter	W. R. Stafford	349,822	Sept. 28	1778	459	36	1401
Cornstalk-cutter attachment	G. B. Brown	349,566	Sept. 21	1411	365	36	1325
Corner-clamp	J. Anderson	353,281	Nov. 30	2171	581	37	897
Cornet	C. G. Conn	343,888	June 15	1606	408	35	1313
Cornice	F. Mankey	342,024	May 18	1444	387	35	792
Cornice-bending machine	A. O. Kittredge and G. A. Ohl	338,079	Mar. 16	1612	420	34	1229
Corpse-preserver	S. Stockton	340,528	Apr. 20	2044	525, 526	35	380
Corpse-supporting table	B. F. Gleason	348,626	Sept. 7	130	37	36	1071
Corset	G. G. Ackerson	346,339	July 27	2188	561	36	418
Corset	J. A. Anderson	349,969	Sept. 28	1966	508	36	1438
Corset	K. Dunham	334,359	Jan. 12	1237	332	34	237
Corset	I. Karp	336,413	Feb. 16	1911	500	34	794
Corset	F. Kirk	344,969	July 6	236	60	36	43
Corset	G. D. Nichols	354,610	Dec. 21	1414	374	37	1277
Corset	C. L. Olmstead and A. D. Nason	338,184	Mar. 16	1763	460	34	1239
Corset	A. Ottenheimer	354,871	Dec. 21	1777	468	37	1346
Corset	A. Rammoser	343,358	June 8	838	211	35	1166
Corset	J R. Rheubottom	339,330	Apr. 6	293	71	35	56
Corset	C. F. Ritchel	346,416	July 27	2301	593	36	440
Corset	J. Stone	341,701	May 11	1022	270	35	706
Corset	E. J. Swartwout	353,237	Nov. 23	2105	564	37	878
Corset	A. H. Traver	336,768	Feb. 23	2396	628	34	889
Corset	M. A. Waterhouse	339,719	Apr. 13	921	225	35	168
Corset and garment supporter combined	H. M. Bortree	346,982	Aug. 10	685	182	36	600
Corset and skirt-supporter. Combined	J. Stone	352,163	Nov. 9	655	172	37	586
Corset-clasp	F. F. Delpy	347,094	Aug. 10	859	227	36	630
Corset-clasp	J. H. Haviland	352,820	Nov. 16	1511	407	37	755
Corset-clasps. Eye for	M. Gardner	335,911	Feb. 9	1172	312	34	658
Corset-cover	T. P. Taylor and M. B. Hammond	338,002	Mar. 16	1723	394	34	1212
Corset-cover and dress-shield. Combined	T. P. Taylor and M. B. Hammond	349,068	Sept. 14	731	186	36	1184
Corset-fastening	C. K. Pevey	354,218	Dec. 14	839	223	37	1167
Corset-fastening	E. A. Pyle	346,442	July 27	2342	602	36	446
Corset-fastening	L. Sanders	352,714	Nov. 16	1360	373	37	731
Corset-fastening	M. Seifert	355,320	Dec. 28	2272	598	37	1453
Corset-lacing	J. Stone	349,184	Sept. 14	887	228	36	1214
Corset. Nursing	B. Baldwin	341,870	May 18	1242	332, 333	35	756
Corset. Nursing	J. C. Tallman	353,093	Nov. 23	1905	512	37	839
Corset-shaping machine	S. H. Rosenberg	341,773	May 11	1108	294	35	722
Corset-shaping machine	S. H. Rosenberg	341,774	May 11	1109	294	35	722
Corset-stays. Machine for covering	W. A. Nettleton	355,199	Dec. 28	2242	591, 592	37	1447
Corset-stays. Machine for covering	W. A. Nettleton and C. F. Littlejohn	340,347	Apr. 20	1799	461, 462	35	335
Corset-stays. Machine for covering	W. A. Nettleton and C. F. Littlejohn.	355,198	Dec. 28	2240	591	37	1446
Corset-stiffener	H. M. Van Etten	336,606	Feb. 23	2170	567	34	846
Corset-stiffening	J. Stone and M. Gardner	351,344	Oct. 19	1755	462	37	334
Corset-stiffening. Machine for making	M. Gardner	351,174	Oct. 19	1530	401, 402, 403	37	294

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Pages.
Corset-trimming	M. W. Henius	346,476	Aug. 3	36	9	36	467
Corset-waist	C. A. McGee	339,313	Apr. 6	284	71	35	54
Corsets. Constructing	J. Stone and M. Gardner	351,345	Oct. 19	1758	463	37	334
Corsets. Forming and finishing the edges of the front sections of	F. M. Baker	343,421	June 8	962	240	35	1189
Corsets. Lacing device for	T. P. Taylor	354,668	Dec. 21	1498	397	37	1292
Corsets. Lacing-stay for	T. P. Taylor	347,449	Aug. 17	1367	364	36	732
Corsets. Manufacturing	B. Baldwin	341,869	May 18	1242	332	35	756
Corsets. Stiffening material for	J. F. J. Gunning	347,034	Aug. 10	763	203	36	613
Cosmetic wash	L. K. Templeton, T. B. and W. H. Reed.	349,014	Sept. 14	658	.....	36	1172
Cot and mattress. Folding woven-wire	F. B. Hemingway	336,110	Feb. 16	1456	384	34	714
Cot and seat. Convertible	L. Banks	339,131	Apr. 6	18	6	35	6
Cot and stretcher. Folding canvas	S. F. Seely	334,986	Jan. 26	2071	553	34	404
Cot. Folding	W. S. Seymour	351,074	Oct. 19	1396	367	37	267
Cotton and corn scraper and cultivator	T. W. Boyle	344,716	June 29	2738	711	35	1535
Cotton and corn sweep	M. M. Ritch and P. McRae	336,160	Feb. 16	1537	405	34	727
Cotton and hay press	W. H. Tappey	340,164	Apr. 20	1522	385	35	284
Cotton-chopper	J. C. Farley	338,255	Mar. 23	1856	487, 488	34	1284
Cotton-chopper	C. L. Ferriott	339,753	Apr. 13	966	238	35	176
Cotton-chopper	J. R. Rector	351,526	Oct. 26	2065	535	37	397
Cotton-chopper	W. H. Richardson	343,140	June 1	529	134	35	1102
Cotton-chopper	J. W. Rykard	354,519	Dec. 14	1261	337	37	1243
Cotton-chopper	E. C. A. Fuls	353,463	Nov. 30	2436	650	37	946
Cotton chopper and cultivator	R. E. Clark	354,689	Dec. 21	1525	404	37	1298
Cotton chopper and cultivator	J. K. P. Shelton	351,845	Nov. 2	169	46, 47	37	490
Cotton chopper and cultivator. Combined	A. Flewellen, Sr	342,691	May 25	2405	638	35	976
Cotton chopper and cultivator. Combined	J. L. Murray	336,865	Feb. 23	2521	665	34	911
Cotton chopper and cultivator. Combined	R. S. Oliver	340,403	Sept. 21	1190	308	36	1281
Cotton chopper and scraper. Combined	W. H. Basham	349,076	Sept. 14	742	189	36	1186
Cotton chopper, scraper, and cultivator. Combined	W. H. Estes	342,342	May 25	1906	503	35	885
Cotton-cleaner	J. H. Poston	339,464	Apr. 6	505	122	35	93
Cotton-cleaning. Dust-trunk for	B. Robinson	351,715	Oct. 26	2329	606, 607	37	446
Cotton-condenser	T. S. Greenman	352,538	Nov. 16	1129	305	37	685
Cotton-gin	J. E. Atwood	346,573	Aug. 3	152	42	36	489
Cotton-gin	I. F. Brown	343,433	June 8	976	244	35	1191
Cotton-gin	F. D. Child	349,692	Sept. 28	1572	408	36	1364
Cotton-gin	J. M. Cox	342,333	May 25	1889	500	35	883
Cotton-gin	W. Dearborn	340,294	Apr. 20	1724	439	35	320
Cotton-gin	S. D. Freeman	339,091	Mar. 30	3043	804	34	1498
Cotton-gin	J. M. Gardner	348,900	Sept. 7	492	130, 131	36	1138
Cotton-gin	J. S. Livingston and A. McBride	334,875	Jan. 26	1930	514	34	379
Cotton-gin	F. H. Lummus	343,380	June 8	910	228	35	1179
Cotton-gin	J. Ralston	351,401	Oct. 26	1881	490, 491	37	361
Cotton-gin	G. L. Rollins	340,061	Apr. 13	1374	345	35	251
Cotton-gin	E. Van Winkle	347,666	Aug. 17	1690	450	36	793
Cotton-gin	E. M. Wheeler and S. Z. Hall	343,934	June 15	1659	426	35	1325
Cotton-gin attachment	O. M. Stone and G. A. Platt	343,260	June 8	708	176	35	1144
Cotton-gin cylinder	C. B. Valle	354,955	Dec. 28	1890	500	37	1381
Cotton-gin feeder	J. G. Wiley	344,299	June 22	2181	560	35	1425
Cotton-gins. Combined feeder and hopper for	J. P. Ketteringham	354,322	Dec. 14	994	264	37	1194
Cotton, &c. Machinery for opening and cleaning	J. C. Potter	345,255	July 6	630	160	36	114
Cotton, &c. Machinery for opening, cleaning, or preparing	J. C. Potter	344,198	June 22	2045	523	35	1400
Cotton, &c. Metallic wrapping for	A. H. Douglass	335,216	Feb. 2	191	50	34	474
Cotton-opener	R. Kitson	351,868	Nov. 2	201	56, 57	37	496
Cotton opener and lapper	J. C. Potter	335,089	Jan. 26	2223	590	34	431
Cotton-packer	J. T. Dulany	348,490	Aug. 31	2865	770	36	1027
Cotton-picker	G. Bisler	347,382	Aug. 17	1268	336, 337	36	714
Cotton-picker	S. H. Frist	352,458	Nov. 9	1034	278, 279	37	659
Cotton-picker stem	W. G. Sears	353,085	Nov. 23	1887	509	37	835
Cotton-picker stem	W. G. Sears	353,167	Nov. 23	2012	539	37	860
Cotton-picker stems. Making	C. T. Mason, Jr	345,312	July 13	714	180	36	134
Cotton-picker teeth. Making	J. Crabb	345,779	July 20	1405	364	36	365
Cotton-picking machine	M. Platt	347,058	Aug. 10	797	212	36	620
Cotton-press	W. P. Carr	347,468	Aug. 17	1391	370	36	737
Cotton-press	A. B. Flowers	353,784	Dec. 7	180	49, 50	37	1040
Cotton-press	C. A. Hege	335,194	Feb. 2	152	39	34	468
Cotton-press	G. W. Soulé	341,070	May 4	130	39	35	529
Cotton-press	A. D. Thomas	354,270	Dec. 14	923	243	37	1180
Cotton-press. Lever	W. P. Abells	335,871	Feb. 9	1103	292	34	647
Cotton-scraper	W. H. Basham	351,018	Oct. 19	1324	348	37	255
Cotton-scraper	R. Cooper	335,507	Feb. 2	580	152	34	544
Cotton-scraper	G. W. Randolph	341,688	May 11	1006	265	35	702
Cotton-scraper	J. L. Slocumb	335,973	Feb. 9	1250	332	34	671
Cotton-scraper attachment	T. Felps	336,803	Feb. 23	2441	641	34	896
Cotton-seed reducing and separating machine	D. J. Ames	352,285	Nov. 9	815	218, 219	37	615
Cotton-sweep	J. C. Awalt	334,409	Jan. 19	1303	353	34	256
Cotton-thinner	S. C. Dickson	335,189	Feb. 2	134	34	34	465
Cotton thinner and cultivator	N. W. Wortham and J. I. J. Bell	352,599	Nov. 16	1213	329	37	700
Cotton-waste picker	J. P. Hillard	348,394	Aug. 31	2725	732	36	1001
Couch. Reclining chair	C. A. Lindner	340,131	Apr. 20	1476	373	35	275
Counter and show-case. Combined	S. B. Dooley	334,356	Jan. 12	1234	331	34	236
Counter. Revolution or stroke	W. Voit	351,543	Oct. 26	2087	541, 542	37	401
Counter-shaft frame and belt-tightener. Swinging	G. H. W. Simmon	349,462	Sept. 21	1272	330	36	1297
Counter. Store	J. A. Cooper	346,896	Aug. 10	572	153	36	579

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Counterbore-facing machine	A. Latham	344,283	June 22	2160	552, 554	35	1420
Counterborers, reamers, and countersinks. Machine for forming	A. Latham	339,197	Apr. 6	111	31, 32, 33	35	23
Counterbores. Machine for facing	A. Latham	350,141	Oct. 5	57	16, 17	37	13
Countersinking and molding machine. Marble	W. F. Poiesz	349,000	Sept. 14	640	165	36	1168
Countersinking-tool	F. Happersberger	336,566	Feb. 23	2119	556	34	837
Countersunk hole in metal articles	S. L. Allen	350,908	Oct. 19	1145	305	37	223
Counting-register	J. Thomson	337,890	Mar. 16	1351	351	34	1182
Coupling: *See* Axle-coupling. Bell-cord coupling. Breast-strap coupling. Cable-coupling. Car-coupling. Collar-coupling. Detachable coupling. Draft-coupling. Friction-coupling. Hame-coupling. Harness-coupling. Hose-coupling. Hose and pipe coupling. Hub and axle coupling. Insulating-coupling. Lamp-coupling. Lightning-rod coupling. Pipe-coupling. Pole-coupling. Pump-rod coupling. Reach-coupling. Shaft-coupling. Spring-coupling. Syringe-tube coupling. Thill-coupling. Tire-coupling. Valve-coupling. Vehicle-spring coupling. Wagon-coupling. Whiffletree-coupling. Yoke-coupling.							
Coupling	B. F. Nichols	339,204	Apr. 6	128	34	35	25
Coupling-joint	B. F. Sweet	334,305	Jan. 12	1160	310	34	223
Coupling-links. Manufacture of hooked	J. H. Simpson	345,069	July 6	394	99	36	72
Coupling or joint pins. Fastening for	M. Renshaw and W. H. Horner	349,004	Sept. 14	645	167	36	1169
Cover: *See* Man-hole cover. Vault-cover.							
Cover. Jar	P. K. Reeves	348,588	Sept. 7	76	22	36	1061
Cover. Kettle	D. H. Murphy	334,716	Jan. 19	1728	460	34	333
Covering for cylinders of ice-machines, pipes, &c. Non-conducting	J. M. and G. F. Ordway	346,767	Aug. 3	390	107	36	537
Cow-tail fetter	B. S. Slinn	334,906	Jan. 26	1967	523	34	386
Cow-tail holder	J. C. Cady	350,114	Oct. 5	24	7	37	8
Cowl: *See* Chimney-cowl.							
Cowl	O. Rotton	352,573	Nov. 16	1178	318	37	693
Cracker-box cover	C. G. Sandberg	345,453	July 13	915	230	36	170
Cracker-machine	W. S. Crane and A. Eden	339,972	Apr. 13	1249	312	35	229
Cracker-machine	A. Ruger	343,343	June 8	846	214	35	1168
Crackers. Machine for arranging	W. Jackson	339,656	Apr. 13	825	203	35	152
Cradle. Folding	O. L. Bandy	345,098	July 6	416	107	36	76
Cradle. Folding	C. P. Kenna	335,203	Feb. 2	163	42	34	470
Cranberry-picker	M. M. Chew	334,565	Jan. 19	1521	407	34	294
Crane. Hydraulic	H. Aiken	343,417	June 8	958	239	35	1188
Crane. Portable window-	A. Anderson	337,225	Mar. 2	454	118	34	1010
Crane. Steam	H. C. Winebrenner	337,724	Mar. 9	1132	292	34	1135
Crane. Traveling	F. Shickle	345,736	July 20	1346	350, 351, 352	36	255
Crane. Traveling	J. Walker	353,612	Nov. 30	2656	710, 711	37	988
Crank and eccentric. Variable	W. H. De Valin	335,745	Feb. 9	930	245	34	614
Crank-motion. Device for passing the dead-center of a	J. Curran	350,417	Oct. 5	416	119	37	82
Crate	E. Horton	350,134	Oct. 5	48	13	37	12
Crate	H. W. Ream	347,198	Aug. 10	999	266	36	657
Crate. Egg-preserving	N. A. Wierman	343,784	June 15	1476	370	35	1288
Crate. Folding	D. E. Evans	352,183	Nov. 9	686	183	37	591
Crate. Folding	A. W. Walker	354,846	Dec. 21	1735	460	37	1338
Crate. Fruit-	C. W. Lloyd	335,369	Feb. 9	400	102	34	513
Crate. Fruit-	S. G. Rice	354,736	Dec. 21	1591	421	37	1310
Crate. Knockdown	C. P. Lewis	343,588	June 15	1202	303	35	1239
Crate. Return-	J. Colville	339,045	Mar. 30	2979	788	34	1488
Cravat-retainer	F. W. Thal	345,934	July 20	1626	419	36	305
Cravat-retainer	F. W. Thal	345,935	July 20	1627	419	36	305
Crayon-holder	O. A. Moses	347,439	Aug. 17	1356	360	36	730
Crayon. Marking	C. N. Waite	346,002	July 20	1724	..	36	322
Crayon or pencil holder	M. C. Meigs	336,250	Feb. 16	1685	440	34	752
Cream-raising apparatus	F. W. Moseley and J. G. Pritchard	348,540	Aug. 31	2939	790	36	1041
Cream-separator	M. C. Barden	345,874	July 20	1541	398	36	288
Cream-separator	W. H. Johnson	337,266	Mar. 2	512	134	34	1021
Cream-tempering vat	J. Wilhelm	351,012	Oct. 19	1317	346	37	254
Creamer	W. S. Mummery	340,920	Apr. 27	2585	681	35	482
Creamer. Centrifugal	C. A. Backstrom	355,048	Dec. 28	2028	533	37	1403
Creamer. Centrifugal	G. De Laval	335,344	Feb. 2	363	94, 95	34	507
Creamery	N. Yingst	338,577	Mar. 23	2292	601	34	1360
Crib and bed. Swinging	H. B. McGloflin	345,796	July 20	1436	379	36	271
Crib. Folding convertible	C. F. Heinss	341,238	May 4	376	103	35	574
Crib or cradle. Child's	C. F. Hopf	339,413	Apr. 6	427	105	35	80
Crimping-machine	G. M. Ludlow	345,241	July 6	608	154	36	110
Crimping-machine	F. R. Packham	349,355	Sept. 21	1112	287	36	1266
Crimping-machine. Radial	J. McCreary and D. R. Smith	336,656	Feb. 23	2253	587, 588	34	860
Crimping-tool	L. L. Rowe	354,657	Dec. 21	1480	393	37	1289
Crockery or earthenware	J. S. Donohue	349,272	Sept. 14	1004	256	36	1237
Crockery-ware. Mold-bed for	D. Hallum	338,226	Mar. 16	1816	475	34	1269
Cross-head	G. R. Cullingworth	343,300	June 8	770	193	35	1155
Cross-tie	J. W. Flynn	345,837	July 20	1495	387	36	28[illegible]

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Crossing-guard	D. L. Miller	353,368	Nov. 30	2293	612	37	910
Crupper-former	L. Dare	348,319	Aug. 31	2625	708	36	982
Crupper press and former	E. W. Jackson	345,143	July 6	478	121	36	87
Crusher: *See* Clod-crusher. Ore-crusher. Coke-crusher. Rock-crusher. Ice-crusher.							
Crusher and pulverizer	W. L. Card	347,869	Aug. 24	1977	524	36	854
Crushing and grinding mill	J. G. Kirker	350,064	Sept. 28	2100	543	36	1463
Crushing and grinding mill	J. F. Winchell	342,158	May 18	1628	436	35	827
Crushing and grinding mill	J. F. Winchell	342,311	May 18	1848	489	35	866
Crushing-machine	R. McCully	348,757	Sept. 7	298	80	36	1103
Crushing-machine	R. McCully	348,758	Sept. 7	302	80, 81	36	1103
Crushing-rolls Bed for	D. Dunne	344,258	June 22	2123	542	35	1414
Crutch	C. Copeland	348,267	Aug. 31	2558	687	36	967
Crystals. Composition to attract dissolved	W. Kornacher	351,870	Nov. 2	203	57	37	496
Cue-tip fastener	T. Dougherty	334,648	Jan. 19	1638	437	34	317
Cuff	W. P. Groom	334,527	Jan. 19	1465	393	34	285
Cuff-fastener	T. E. Barrow	354,373	Dec. 14	1060	283	37	1208
Cuff-fastener	S. V. Thomas	344,605	June 29	2603	674	35	1510
Cuff-fastener	S. P. Willcox	354,288	Dec. 14	951	251	37	1185
Cuff-fastening	E. Gutmann	344,313	June 22	2198	565	35	1428
Cuff-hasp	J. W. Hollingsworth	351,773	Nov. 2	62	16	37	470
Cuff-holder	J. F. Atwood	333,494	Jan. 5	1	1	34	3
Cuff-holder	C. Frank	350,622	Oct. 12	742	203	37	143
Cuff-holder	F. J. Hall	354,471	Dec. 14	1189	318	37	1231
Cuff-holder	W. K. Herrington	351,376	Oct. 26	1811	476	37	349
Cuff-holder	P. A. Jones	352,757	Nov. 16	1428	385	37	741
Cuff-holder	F. E. Kohler	334,391	Jan. 12	1271	343	34	243
Cuff-holder	W. T. Reeves	349,454	Sept. 21	1260	327	36	1294
Cuff-holder	C. H. Richardson and H. A. Barkelew, Jr.	349,902	Sept. 28	1877	485	36	1422
Cuff-holder	A. W. Sawyer	349,456	Sept. 21	1263	327	36	1295
Cuff-holder	E. B. Taylor	344,219	June 22	2072	530	35	1405
Cuff holder and adjuster	R. Simyvesant	337,534	Mar. 9	903	230	34	1094
Cuff-holder or necktie-supporter	W. H. Voss	344,236	June 22	2082	532	35	1407
Cuff-retainer	A. Bond	352,294	Nov. 9	829	222	37	618
Cuff-supporter Lady's	F. M. Sears	353,166	Nov. 23	2011	539	37	860
Culinary utensil	E. R. Procter	349,002	Sept. 14	643	166	36	1169
Culinary vessel. Steam	N. and J. Forshaw	340,995	May 4	34	9	35	512
Culling-shears	J. Neff, Jr.	352,560	Nov. 16	1162	313	37	630
Culm-bar	S. M. Hess	343,370	June 8	892	224	35	1177
Cultivating and seeding machine	R. A. Preston	341,108	May 4	183	57, 58, 59	35	538
Cultivator	S. L. Allen	334,327	Jan. 12	1189	319	34	229
Cultivator	F. H. Austin	336,884	Mar. 2	1	1	34	927
Cultivator	R. H. Avery and L. B. Berrien	351,684	Oct. 26	2296	595, 596	37	439
Cultivator	G. Bettschen	347,083	Aug. 10	843	224	36	628
Cultivator	D. M. Bourne	354,381	Dec. 14	1067	286	37	1209
Cultivator	G. E. Briggs	347,057	Aug. 10	849	226	36	629
Cultivator	E. S. and C. R. Brown	338,709	Mar. 30	2492	659	34	1401
Cultivator	G. W. Brown	354,388	Dec. 14	1075	288	37	1210
Cultivator	G. W. Brown	354,389	Dec. 14	1077	289	37	1211
Cultivator	D. V. Carhart	351,357	Oct. 26	1785	469	37	344
Cultivator	E. Children	334,641	Jan. 19	1625	433	34	314
Cultivator	E. E. Eddington	347,583	Aug. 17	1530	412	36	768
Cultivator	T. J. Eubanks	339,632	Apr. 13	795	195	35	146
Cultivator	L. Foster	353,742	Dec. 7	126	35	37	1030
Cultivator	D. D. Funk	348,518	Aug. 31	2909	782, 783	36	1035
Cultivator	D. D. Funk	352,533	Nov. 16	1124	304	37	684
Cultivator	J. Goodnough	333,514	Jan. 5	25	8	34	8
Cultivator	G. P. Heberling	351,767	Nov. 2	54	14	37	468
Cultivator	F. M. Helms	335,222	Feb. 2	198	52	34	475
Cultivator	S. N. Hench and W. A. Dromgold	348,208	Aug. 31	2476	665, 666	36	952
Cultivator	J. A. Johnson	347,273	Aug. 10	1099	294	36	675
Cultivator	P. Kaiser	352,054	Nov. 2	473	128	37	548
Cultivator	P. S. Kinsworthy	352,413	Nov. 9	977	263	37	648
Cultivator	E. E. Krause	347,722	Aug. 17	1763	470	36	806
Cultivator	N. P. and J. W. Lehr	353,148	Nov. 23	1987	531, 532	37	855
Cultivator	H. C. Leydorf	337,596	Mar. 9	976	250	34	1108
Cultivator	W. D. Lloyd	341,106	May 4	180	56	35	538
Cultivator	J. H. Mason	347,725	Aug. 17	1766	471	36	807
Cultivator	P. P. Mast	354,717	Dec. 21	1558	413	37	1304
Cultivator	J. C. McCandless and O. King	352,703	Nov. 16	1364	368, 369	37	728
Cultivator	M. F. McCray	334,181	Jan. 12	964	261	34	186
Cultivator	N. McLean	342,453	May 25	2067	544	35	913
Cultivator	T. Meikle	352,553	Nov. 16	1152	311	37	688
Cultivator	T. Meikle	352,554	Nov. 16	1152	311	37	689
Cultivator	E. R. Miltenberger	344,001	June 22	1757	452	35	1349
Cultivator	J. Morgan	333,535	Jan. 5	53	15	34	13
Cultivator	D. and R. B. Motherwell	336,939	Mar. 2	74	20	34	940
Cultivator	W. H. Newton	353,579	Nov. 30	2603	695	37	978
Cultivator	J. F. Packer	353,496	Nov. 30	2481	662, 663	37	955
Cultivator	W. S. Pates	353,000	Nov. 23	1764	473, 474	37	812
Cultivator	E. Patterson	353,707	Dec. 7	79	21	37	1020
Cultivator	W. Pendley	353,498	Nov. 30	2487	664	37	956
Cultivator	J. W. Peters and J. H. Skinner	338,294	Mar. 23	1905	501	34	1293

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cultivator	W. C. Peters	334,045	Jan. 12	762	209	34	150
Cultivator	H. C. Pratt	340,894	Apr. 27	2552	672	35	476
Cultivator	J. N. Procter	351,465	Oct. 26	1974	514	37	379
Cultivator	A. B. Reeves	341,109	May 4	186	59	35	539
Cultivator	J. P. Ritch	346,223	July 27	2025	592	36	389
Cultivator	C. J. Robson	351,716	Oct. 26	2331	607	37	447
Cultivator	N. Roggy	350,506	Oct. 12	574	159	37	112
Cultivator	J. R. Salter	346,617	Aug. 3	214	59	36	502
Cultivator	M. Sattley	348,695	Sept. 7	227	60	36	1088
Cultivator	W. Saunders	345,734	July 20	1943	349	36	255
Cultivator	G. H. Sawyer	348,242	Aug. 31	2526	678	36	961
Cultivator	J. B. Scanthn	351,343	Oct. 19	1754	462	37	334
Cultivator	N. H. Shepardson	340,375	Apr. 20	1837	471	35	342
Cultivator	H. Skelton	334,479	Jan. 19	1401	378	34	274
Cultivator	J. F. Smith	335,644	Feb. 9	784	208	34	588
Cultivator	J. F. Smith	354,260	Dec. 14	906	240	37	1173
Cultivator	J. R. Suter	351,720	Oct. 26	2331	609	37	448
Cultivator	J. M. Sutton	352 958	Nov. 23	1702	457	37	800
Cultivator	W. J. Tanner	351,136	Oct. 19	1482	388	37	284
Cultivator	J. G. Trump	342 401	May 25	1993	527	35	900
Cultivator	M. L. Unger	353,410	Nov. 30	2361	629	37	932
Cultivator	N. H. Vogt	352 896	Nov. 16	1615	434	37	776
Cultivator	F. P. Warren	340,744	Apr. 27	2359	621	35	440
Cultivator	E. E. Whipple	343,936	June 15	1662	426	35	1325
Cultivator	J. I. Woodruff and W. H. Wagner.	354,003	Dec. 7	513	138, 139	37	1099
Cultivator and corn-planter. Combined	J. R. Gilliland	342,791	June 1	24	7	35	1011
Cultivator and cotton-chopper	T. J. Brown	340,933	Apr. 27	2602	686	35	485
Cultivator and fertilizer-distributer. Wheel	W. and R. Ruffin	336,163	Feb. 16	1541	406, 407	34	727
Cultivator and hoe. Combined	A. G. Christman	347,320	Aug. 17	1179	315	36	699
Cultivator and plow. Combined wheel	C. Wahrmund, Jr.	354 956	Dec. 28	1900	501	37	1381
Cultivator and pulverizer	H. F. Jones	351,984	Nov. 2	371	101	37	637
Cultivator and seeder	C. La Dow	354,556	Dec. 21	1318	350	37	1260
Cultivator attachment	G. W. Campbell	348,721	Sept. 7	255	68	36	1094
Cultivator-bar and cultivator-clip	W. Zehner and M. A. Eisenhour	347,756	Aug. 17	1808	482	36	815
Cultivator-beam lifter. Spring	W. J. Browne	340,551	Apr. 27	2082	537	35	394
Cultivator-blade	B. F. Roberts	340,621	Apr. 27	2183	575	35	411
Cultivator. Corn-	J. Pritchard	339,580	Apr. 6	715	175	35	125
Cultivator, corn-planter, rake, and roller	P. P. Gardner	343,168	June 8	573	144	35	1120
Cultivator. Cotton-	G. R. Dykes and J. M. Woods	353,212	Nov. 23	2076	555	37	873
Cultivator. Cotton-	J. Wilkinson and F. Curtin	337,222	Mar. 2	452	118	34	1010
Cultivator, cotton-planter, and fertilizer-distributer.	W. Wimpee	347,545	Aug. 17	1500	397, 398	36	757
Cultivator. Disk-	J. O. Currier	333,927	Jan. 5	592	162	34	111
Cultivator, distributer, and planter	D. M. Johnson	343,275	June 8	732	182	35	1147
Cultivator. Hand-	G. H. Black	349,561	Sept. 21	1404	363	36	1323
Cultivator. Hand garden-	W. S. Shull	341,512	May 11	748	201	35	651
Cultivator. Listed-corn	A. L. McCandless	339,452	Apr. 6	488	119	35	91
Cultivator. Listed-corn	G. W. Moffitt	338,180	Mar. 16	1758	459	34	1259
Cultivator. Listed-corn	D. Sommer	352,274	Nov. 9	804	215	37	613
Cultivator. Listing-	T. Snavely	349,065	Sept. 14	727	185	36	1184
Cultivator or plow	A. J. Baird	346,139	July 27	1914	494	36	367
Cultivator. Roller-	J. Clay	337,480	Mar. 9	835	211	34	1083
Cultivator-shovel	J. E. Beck	349,334	Sept. 21	1071	275	36	1259
Cultivator. Spring-	W. J. Browne	335,013	Jan. 26	2110	562	34	411
Cultivator. Straddle-row wheel-	A. Cox	341,889	May 18	1270	340	35	761
Cultivator. Sulky-	W. R. McConnell	340,138	Apr. 20	1485	375	35	277
Cultivator. Tongueless	B. C. Bradley	334,688	Jan. 19	1689	451, 452	34	326
Cultivator-tooth	L. Burk	336,508	Feb. 16	2031	533	34	815
Cultivator. Wheel-	A. C. Baker	349,972	Sept. 28	1969	509	36	1439
Cultivator. Wheel-	W. P. Brown	345,111	July 6	432	111	36	79
Cultivator. Wheel-	E. R. Conklin	346,193	July 27	1982	512	36	380
Cultivator. Wheel-	J. H. Gilman	336,310	Feb. 16	1770	463	34	767
Cultivator. Wheel-	A. J. Heavner and R. Thornton	337,400	Mar. 9	696	182	34	1061
Cultivator. Wheel-	I. J. Hunt	347,806	Aug. 24	1881	502	36	837
Cultivator. Wheel-	A. Lindgren	333,766	Jan. 5	370	101	34	69
Cultivator. Wheel-	J. McGee	348,760	Sept. 7	305	81	36	1104
Cultivator. Wheel-	A. I. Peffley	337,861	Mar. 16	1314	341	34	1174
Cultivator. Wheel-	J. C. Schwaller	355,106	Dec. 28	2110	554, 555	37	1420
Cultivators. Harrow attachment for	C. R. Davis	352,740	Nov. 16	1405	380	37	737
Cultivators. Harrow attachment for	W. H. Hobson	349,795	Sept. 28	1736	448	36	1393
Cultivators. Hitching attachment for	G. W. Plymell	350,319	Oct. 5	291	83	37	59
Cultivators. Mold-board for	A. W. Potts	346,064	July 20	1804	465	36	336
Cultivators. Standard-clamp for	S. Brinkerhoff	336,506	Feb. 16	2028	532, 533	34	815
Culvert or water-way	J. C. Goodridge, Jr	354,897	Dec. 28	1816	480	37	1365
Cup: *See* Dental impression-cup. Shaving-cup. Tea or coffee cup. Oil-cup. Umbrella drip-cup.							
Cupboard-catch	H. B. Swartzwelder	349,671	Sept. 21	1537	396	36	1351
Curd-mill. Self-salting	G. D. Pohl	349,405	Sept. 21	1192	309	36	1282
Curling-iron	R. P. Dunn	344,774	June 29	2818	730	35	1549
Currency. Paper	I. M. Phelps	341,429	May 4	633	173	35	620
Curry-comb	W. G. Clark	335,894	Feb. 9	1151	306	34	654
Curry-comb	T. Gingras	337,057	Mar. 2	233	62	34	968
Curry-comb	A. L. Higley	342,512	May 25	2164	573	35	929
Curry-comb	F. I. Howe	335,072	Jan. 26	2199	584	34	427
Curry-comb	T. J. Johnson	343,323	June 8	811	204	35	1161
Curry-comb	W. E. Lawrence	339,437	Apr. 6	464	112	35	86
Curry-comb	W. E. Lawrence	345,155	July 6	495	127	36	90

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Invention.	Name.	No.	Date.	Monthly volume. Spec	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Curry-comb	W. T. Norton	336,490	Feb. 16	2011	527	34	812
Curry-comb	C. D. Randel	335,772	Feb. 9	974	258	34	622
Curry-comb	H. F. Sawtelle	348,241	Aug. 31	2525	678	36	961
Curry-comb	M. Sweet	346,444	July 27	2344	603	36	447
Curry-comb	M. Sweet	346,445	July 27	2345	603	36	447
Curry-comb	P. W. Warner	346,625	Aug. 3	224	61	36	504
Curtain and screen holder	F. M. Georgie, Sr	337,572	Mar. 9	949	243	34	1103
Curtain-fastener	W Wiedemann	347,543	Aug. 17	1496	396	36	757
Curtain-fixture	G. H. Baker	337,043	Mar. 2	217	57	34	965
Curtain-fixture	W N. Buckley	343,160	June 8	562	142	35	1117
Curtain-fixture	G. Bull and W. J. Vizey	351,308	Oct. 19	1713	450	37	326
Curtain-fixture	J. Gamble	336,851	Feb. 23	2505	660	34	908
Curtain-fixture	J. C. Mayer	344,846	July 6	69	17	36	13
Curtain-fixture	T. McGuire	343,483	June 8	1057	263	35	1206
Curtain-fixture	H. C. Schmidt and D. W. Thuma	348,784	Sept. 7	333	89	36	1109
Curtain-fixture	H. W. Simms	345,811	July 20	1457	377	36	274
Curtain-fixture	H. W. Simms	345,812	July 20	1459	377	36	275
Curtain-fixture	L. Weber	336,610	Feb. 23	2177	568 569	34	846
Curtain-fixture	C. Wohlers	354,369	Dec. 14	1056	282	37	1207
Curtain fixture	J. E. and E. M. Wyant	335,789	Feb. 9	999	264	34	626
Curtain-pole and banner-rod	W. A. Stevenson	348,701	Sept. 7	234	62	36	1089
Curtain-pole and fixture	O. F. Schumann	344,461	June 29	2398	618	35	1471
Curtain-pole ring	A. D. Field	337,053	Mar. 2	229	61	34	967
Curtain-poles. Ornament for	E. A. Foy	349,640	Sept. 21	1501	389	36	1344
Curtain-roller	J. E. Hopkinson	346,045	July 20	1782	459	36	331
Curtain-roller. Spring	J. P. Gaszner	341,648	May 11	940	249	35	689
Curtain-roller. Spring	J. Harris	338,065	Mar. 16	1596	415	34	1225
Curtain. Rolling	O. Kluge	346,999	Aug. 10	705	187	36	603
Curtain-stretcher	A. P. Bohlinger	341,634	May 11	925	245	35	686
Curtain. Window	C. Darland	341,998	May 18	1403	374	35	784
Curtains. Device for suspending	H. D. B. Lefferts	352,953	Nov. 23	1691	455	37	799
Curtains. Roller for hanging	H. D. and H. D. Hinternesch, Jr	346,752	Aug. 3	374	101	36	534
Cushion for vehicles and furniture. Ventilated spring.	E. R. Sibley and H. P Wells	333,557	Jan. 5	77	22	34	17
Cushioning-spring	R. Eickemeyer	352,812	Nov. 16	1502	405	37	754
Cuspidor	G. Kochendorfer	347,354	Aug. 17	1227	327	36	707
Cuspidor. Sanitary	C. Stierle	344,015	June 22	1780	459	35	1352
Cut-nail	S. M. Guss	337,765	Mar. 9	1180	307	34	1144
Cut-off and filter. Rain-water	W. R. Scott	347,203	Aug. 10	1003	267	36	658
Cut-off for cisterns. Water	W. Horn, Jr	339,651	Apr. 13	820	202	35	151
Cut-off for water-pipes. Automatic	W. J. Wood	345,017	July 6	317	80	36	58
Cut-off. Governor	R. L. Edmond	353,126	Nov. 23	1947	522	37	848
Cut-off or waste valve	R. Walsh and S. J. Martin	335,404	Feb. 2	443	114	34	520
Cut-off. Rain-water	C. Zitko	337,805	Mar. 9	1232	320	34	1153
Cut-off regulator	E. F. Williams	347,979	Aug. 24	2141	570	36	883
Cut-off valve	G. W. Anderson	335,173	Feb. 2	117	30	34	462
Cut-off valve	H. Burton	337,739	Mar. 9	1150	298	34	1139
Cut-off valve	D. H. Dugar	335,995	Feb. 9	1280	340	34	676
Cut-off valve	F. Schumann	350,324	Oct. 5	299	85, 86	37	61
Cut-off valve	J. P. Simmons	337,025	Mar. 2	198	52	34	961
Cut-off valve for steam-engines	M. N. Lynn	336,662	Feb. 23	2516	664	34	910
Cut-off valves. Automatic device to lock	D. M. Monroe	339,602	Apr. 13	1025	254	35	187
Cut-out and lightning-arrester. Automatic	P. P. Belt	339,363	Apr. 6	360	88	35	67
Cut-out. Multiple-series	C. F. Brush	347,025	Aug. 10	750	200	36	611
Cut-out switch	A. G. Dailey	347,576	Aug. 17	1542	410	36	766
Cutlery. Attaching handles to	J. Leiter	343,665	June 15	1301	327	35	1256
Cutlery. Handle for	S. E. Jeralds and E. R. Lawton	336,116	Feb. 16	1462	385	34	715
Cutlery-handles. Manufacture of	S. E. Jeralds and E. R. Lawton	341,915	May 18	1304	348	35	767
Cutlery. Making	C. O. Appleby	336,198	Feb. 16	1596	419	34	738
Cutlery. Pocket	F. Neuhaus	337,858	Mar. 16	1311	340	34	1174
Cutlery-scourer	T. W. Hines	342,094	May 18	1554	415	35	813
Cutlery. Table	J. D. Frary	341,415	May 4	620	169	35	617
Cutter: *See* Axle-cutter. Band-cutter. Bar-cutter. Bark-cutter. Barrel-head cutter. Biscuit-cutter. Bolt-cutter. Bread-cutter. Bread and vegetable cutter. Cheese-cutter. Cigar-cutter. Cigar-wrapper cutter. Cornstalk-cutter. Embossing-cutter. Feed-cutter. Finger-nail cutter. Fodder-cutter. Harvester-cutter. Heel-lift cutter. Heel-trimming cutter. Key-seat cutter. Meat-cutter. Meat and vegetable cutter. Paper-cutter. Pipe-cutter. Plug-cutter. Potato-cutter. Printer's lead and rule cutter. Rod-cutter. Rope-cutter. Rotary cutter. Sod-cutter. Stalk-cutter. Stalk and weed cutter. Strawberry-runner cutter. Thrashing-machine band-cutter. Tobacco-cutter. Tube-cutter. Twine-cutter. Vegetable-cutter. Vegetable and root cutter. Veterinary incisor-cutter. Veterinary molar-cutter. Washer or gasket cutter. Weed-cutter. Wire-cutter.							
Cutter-head	E. F. Barnes	338,695	Mar. 30	2469	651	34	1397
Cutter-head	E. G. Blaney, Jr	345,662	July 20	1246	323	36	237
Cutter-head	H. S. Boynton	344,810	July 6	9	2	36	4
Cutter-head	W. H. Doane	337,487	Mar. 9	843	213	34	1084

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page
Cutter-head	R. Hegener	335,582	Feb. 9	692	183, 184	34	571
Cutter-head	H. C. Knowlton	341,149	May 4	244	73	35	550
Cutter-head	W. G. Rendall	335,309	Feb. 2	313	82	34	497
Cutter-head	C. E. Temple	339,825	Apr. 13	1052	261	35	192
Cutter-head	W. A. Woodroffe	348,367	Aug. 31	2685	723	36	994
Cutter-head guard	I. E. Hall	337,493	Mar. 9	849	215	34	1085
Cutter-head knife	J. H. Wells	339,606	Apr. 6	744	183	35	131
Cutter-heads. Bit-holder for	S. J. Shimer	353,509	Nov. 30	2502	668	37	959
Cutter-heads. Counter-balance for	G. W. Hill	339,886	Apr. 13	1138	283	35	210
Cutters. Machine for making	W. D. Marks	353,034	Nov. 23	1818	489, 490	37	822
Cutting and forming machine. Rotary	H. Mortenson	354,168	Dec. 14	765	206	37	1153
Cutting apparatus	E. Royce	353,233	Nov. 23	2099	562	37	877
Cutting double piled fabrics. Machine for	O. E. Drown	350,726	Oct. 12	884	237	37	168
Cutting double pile fabrics. Mechanism for	C. R. Garratt	334,947	Jan. 26	2020	538, 539	34	395
Cutting flexible material into pieces having beveled edges.	F. A. Fowler	349,388	Sept. 21	1171	303	36	1278
Cutting holes in wood or other materials. Machine for	H. Weichert	349,772	Sept. 28	1705	440	36	1386
Cutting-instrument	C. R. Heizmann	342,258	May 18	1759	467	35	851
Cutting-machine	H. H. Cummings	346,093	July 27	1842	475, 476	36	353
Cutting-machine	J. Schlichting	347,962	Aug. 24	2122	565	36	880
Cutting or severing device	J. A. Bunnell	355,136	Dec. 28	2154	567	37	1429
Cyclometer	J. Butcher	353,479	Nov. 30	2458	657	37	951
Cyclometer	G. H. Gould	354,128	Dec. 14	704	188	37	1142
Cyclometer	G. P. B. Hoyt	339,891	Apr. 13	1143	284	35	211
Cyclometer	J. A. Lakin and C. J. Emerson, Jr.	348,851	Sept. 7	414	112	36	1124
Cyclometer	G. A. Stiles	345,188	July 6	535	137	36	98
Cylinder engine. Vibrating	J. S. Barden	348,097	Aug. 24	2307	618	36	915
Cylinder-lubricator	C. W. Sherburne	345,929	July 20	1620	417, 418	36	304
Cylinders. Making toothed	W. G. Sears	353,465	Nov. 30	2438	650	37	947
Cylinders or cylindrical vessels. Joint for	W. H. Brown	333,726	Jan. 5	319	87	34	60
Dadoing-machine	G. F. Buss	345,668	July 20	1254	325	36	238
Dam. Mill and fish	E. Jones	348,127	Aug. 24	2342	628	36	921
Dam. Subterranean water-collecting	D. H. Valentine	354,276	Dec. 14	932	245	37	1182
Damper	R. S. T. Cissel	349,921	Sept. 28	1896	491	36	1425
Damper	A. L. Goodenow	336,228	Feb. 16	1647	430	34	746
Damper and fire-alarm. Universal electric	E. A. Morley	350,548	Oct. 12	629	173	37	121
Damper attachment	I. A. Abbot	344,151	June 22	1974	505	35	1387
Damper for stove-pipes and hot-air flues	A. C. Barler	348,947	Sept. 14	561	149	36	1156
Damper for stoves and furnaces. Automatic	C. L. Ridgway	336,261	Feb. 16	1700	443	34	754
Damper. Furnace	W. E. Walker, G. E. Wilbur, and B. W. Felton.	344,509	June 29	2477	636, 637	35	1485
Damper-regulator	N. Curtis	346,898	Aug. 10	575	154	36	580
Damper-regulator	N. C. Locke	335,080	Jan. 26	2208	587	34	428
Damper-regulator	C. A. McDonald and C. W. Townsend.	334,601	Jan. 19	1566	418	34	304
Damper-regulator	T. Walker	339,504	Apr. 6	560	135	35	103
Damper-regulator and alarm. Thermo-electric	A. M. Butz	341,092	May 4	158	47	35	534
Damper regulator and alarm. Thermo-electric	A. M. Butz	347,866	Aug. 24	1967	522	36	853
Damper-regulator. Automatic	J. E. Spencer	338,686	Mar. 23	2453	647	34	1388
Damper-regulator. Automatic	S. Weinberg	335,662	Feb. 9	803	214	34	591
Damper-regulator for steam-boilers	C. A. McDonald and C. W. Townsend.	334,600	Jan. 19	1564	418	34	304
Damper-regulator. Steam-actuated	R. J. Hoffman	347,799	Aug. 24	1872	500	36	835
Damper. Stove	E. A. Jackson	354,704	Dec. 21	1344	408	37	1302
Damper. Stove or range	A. M. Blakesley	337,233	Mar. 2	468	122	34	1012
Damper. Stove-pipe	G. C. Frazer	340,500	Apr. 20	2008	515	35	373
Damper. Stove-pipe	C. W. Lasher	341,023	May 4	66	18	35	518
Damper. Stove-pipe	G. W. Mudd	334,715	Jan. 19	1728	460	34	333
Dampers. Apparatus for opening and closing	R. J. Flinn	354,312	Dec. 14	978	260	37	1191
Dampers. Automatic attachment for stove or range	I. A. Abbot	352,727	Nov. 16	1393	377	37	734
Dandy-roll	W. H. Pool	354,486	Dec. 14	1209	324	37	1234
Danger-signal	H. P. Jones	352,618	Nov. 16	1241	336	37	705
Darning-last	M. B. Crowninshield	347,757	Aug. 17	1809	482	36	815
Dash-board rail	R. W. Logan	339,307	Apr. 6	276	69	35	52
Dash-boards. Receptacle attachment for	M. Fahey	338,833	Mar. 30	2673	703	34	1433
Dash-pot	G. H. Corliss	333,831	Jan. 5	461	125	34	86
Dash-pot	J. M. Westerlin and A. Campbell	345,939	July 20	1632	420	36	306
Dash-rail	J. N. Smith	339,491	Apr. 6	544	132	35	101
Dead-centers. Device for overcoming	R. E. L. Holmes	351,323	Oct. 19	1731	455	37	329
Dead-centers. Device for overcoming	S. T. Shortess	342,479	May 25	2093	553	35	918
Decanting liquids. Device for	L. C. Brickenstein and C. A. Babendreier.	349,248	Sept. 14	977	249	36	1231
Decorated fabric	W. Sochefsky	349,238	Sept. 14	965	.....	36	1229
Decorative purposes. Composition for	E. G. Chormann	346,841	Aug. 3	482	.....	36	555
Decorticating-machine	E. Lycan	355,188	Dec. 28	2225	587, 588	37	1443
Decorticating-machine	H. S. Woodward	337,469	Mar. 9	821	207, 208	34	1080
Delivery device. Automatic	C. H. Russell	354,841	Dec. 21	1730	458	37	1337
Demijohn	A. Enkler	348,665	Sept. 7	183	49	36	1080
Dental appliance	G. F. Brooks	336,790	Feb. 23	2426	638	34	894
Dental articulator-gage	J. B. Crist	352,859	Nov. 16	1560	421	37	765
Dental breath-guard	C. P. Southwell	344,688	June 29	2704	703	35	1529
Dental bridge	C. P. Grout	347,934	Aug. 24	2072	550	36	871
Dental bridge-work	G. V. I. Brown	337,812	Mar. 16	1254	325	34	1164
Dental capsicum plaster	F. B. Darby	335,799	Feb. 9	1012	267	34	629
Dental chairs. Electrical appliance for	L. L. Deckard	353,403	Nov. 30	2351	627	37	930
Dental cotton-holder	A. C. Runyan	344,328	June 22	2217	570	35	1431

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Dental disk	B. H. Teague	346,331	July 27	2181	559	36	417
Dental drill	W. S. Bigby	351,153	Oct. 19	1505	394	37	288
Dental drill	S. J. Lea	348,131	Aug. 24	2345	629	36	922
Dental engine	C. P. Grout	336,229	Feb. 16	1648	431	34	746
Dental engine	J. O. Scott	334,985	Jan. 26	2070	552, 553	34	404
Dental engine	A. Weber	354,819	Dec. 21	1705	451	37	1332
Dental-engine attachment	S. G. Perry	343,845	June 15	1552	393	35	1303
Dental-engine hand-piece	A. Weber	351,821	Nov. 2	127	35	37	482
Dental flexible support	G. L. Field	354,976	Dec. 28	1922	508	37	1386
Dental forceps	F. G. Hughes	354,863	Dec. 21	1761	465	37	1343
Dental head-rest	T. J. Carrick	344,302	June 22	2184	560	35	1425
Dental impression-cup	E. T. Starr	347,976	Aug. 24	2138	569	36	883
Dental-instrument rubber cover	C. K. Barlow	336,781	Feb. 23	2415	635	34	892
Dental matrix	T. W. Brophy	346,082	July 20	1826	472	36	342
Dental matrix	A. C. Hewett	348,628	Sept. 7	134	37	36	1032
Dental matrix	W. B. Miller	351,065	Oct. 19	1386	354	37	266
Dental mouth-tube	T. W. F. Rowney	342,042	May 18	1469	393	35	797
Dental plate	A. Robinson	343,967	June 15	1711	437	35	1333
Dental pliers	E. T. Starr	340,896	Apr. 27	2556	673	35	476
Dental plugger	A. W. Browne	347,567	Aug. 17	1529	407	36	763
Dental plugger	C. Foerster	352,456	Nov. 9	1032	278	37	659
Dental plugger	R. B. Kice	342,107	May 18	1571	419	35	816
Dental plugger	H. C. Register	347,828	Aug. 24	1922	510	36	845
Dental plugger	R. S. Williams	336,777	Feb. 23	2411	634	34	891
Dental plugger. Pneumatic	H. G. Husted	352,756	Nov. 16	1426	385	37	741
Dental tool	H. W. Buschemeyer	349,338	Sept. 21	1076	277	36	1260
Dental tool	C. H. Cannon	340,553	Apr. 27	2085	538	35	305
Dental tool	J. W. Smith	335,780	Feb. 9	984	260	34	624
Dental vulcanizer	W. B. Mann	342,618	May 25	2308	610	35	957
Dental vulcanizer	F. W. Seaburv	343,495	June 8	1071	267	35	1208
Dental vulcanizing apparatus	J. Hood and S. H. Reynolds	334,529	Jan. 19	1468	394	34	285
Dentist's arm-rest	B. H. Teague	351,079	Oct. 19	1403	369	37	269
Dentist's chair	J. N. Farrar	336,220	Feb. 16	1637	427	34	744
Dentist's chair	W. A. Johnston and A. W. Browne.	340,787	Apr. 27	2409	635	35	451
Dentists. Root-dresser for	E. B. Call	335,890	Feb. 9	1146	305	34	653
Dentist's vulcanizing apparatus. Automatic regulator for	C. F. Scattergood	343,255	June 8	703	174	35	1143
Dentistry. Mechanical	W. D. Mayfield	341,929	May 18	1320	333	35	770
Denture. Artificial	H. W. F. Büttner	352,855	Nov. 16	1555	420	37	764
Denture. Artificial	L. T. Sheffield	352,784	Nov. 16	1462	394	37	747
Denture. Artificial	J. L. Williams	347,544	Aug. 17	1497	397	36	757
Deodorizing and disinfecting purposes. Portable apparatus for use with closets, commodes, and the like for	G. H. Ellis	339,752	Apr. 13	965	238	35	176
Deoxidizing and reducing iron ores by means of natural gas. Process of	E. D. Kendall	342,607	May 25	2290	606	35	954
Derailing-switch	J. A. Bonnell	341,400	May 4	604	165	35	614
Derailment-brake	S. H. Harrington	341,573	May 11	841	224	35	669
Derrick	W. J. Blundell	345,478	July 13	947	238, 239	36	176
Derrick	G. and F. Driver	348,726	Sept. 7	262	70	36	1096
Derrick	N. Jensen	352,543	Nov. 16	1136	306	37	686
Derrick	J. Le Duke	352,333	Nov. 9	879	236	37	628
Derrick	G. Rounds	350,213	Oct. 5	168	49	37	34
Derrick and crane platform. Automatic	M. Gibbons	349,582	Sept. 21	1431	370	36	1329
Derrick for loading and stacking hay	T. O. Thorson, P. S. and M. W. Peterson.	353,096	Nov. 23	1909	513	37	840
Derrick. Hay-stacking	O. Youman	347,755	Aug. 17	1807	481	36	814
Derrick. Pipe	G. Corbett	346,466	Aug. 3	19	5	36	464
Derrick. Portable	R. L. Valentine	337,462	Mar. 9	813	205, 206	34	1079
Derrick. Stacking	A. Gallagher	350,824	Oct. 12	1027	274	37	194
Derricks. Stay for oil-well and other	G. H. Anderson	343,264	June 8	713	177	35	1144
Designs, &c., upon surfaces. Producing	C. Coleman	349,340	Sept. 21	1078	------	36	1260
Desk	C. Larson	333,760	Jan. 5	364	99	34	68
Desk	T. Little	343,041	June 1	370	96	35	1074
Desk	H. U. Pohl	336,345	Feb. 16	1817	476, 477	34	776
Desk	A. Sanders	350,997	Oct. 19	1299	341	37	250
Desk	D. L. Wilcox	346,795	Aug. 3	422	116	36	542
Desk and book-case. Combined double	C. E. Ruth	347,278	Aug. 10	1104	295	36	676
Desk and bureau or other piece of furniture. Combined writing-	H. Stolte	342,883	June 1	154	39	35	1034
Desk and seat. Combined adjustable	A. B. Irvin	334,171	Jan. 12	950	257	34	183
Desk and seat for same. Adjustable	A. Mauchain	340,341	Apr. 20	1786	457, 458	35	333
Desk and seat. School	J. F. Coulter	335,508	Feb. 2	581	152	34	544
Desk and seat. School	J. M. Lamb	352,762	Nov. 16	1434	387	37	742
Desk and seat. School	I. Osgood	338,645	Mar. 23	2386	628, 629	34	1376
Desk attachment	W. F. Fitz Gerald	345,040	July 6	344	87	36	63
Desk. Cabinet	F. A. Coffin	338,093	Mar. 16	1568	407	34	1220
Desk. Cabinet	F. A. Coffin	338,632	Mar. 23	2371	624	34	1374
Desk. Cabinet	D. H. Fletcher	341,100	May 4	171	53, 54, 55	35	536
Desk. Folding	A. D. Gould	339,404	Apr. 6	416	102	35	78
Desk. Office	C. N. Dalzell	335,432	Feb. 2	482	125	34	528
Desk or portfolio. Lap writing	G. Hood	348,124	Aug. 24	2337	627	36	921
Desk. Reporter's	I. H. Weiner	348,706	Sept. 7	240	63	36	1091
Desk. School	J. F. Bigger	358,468	Mar. 23	2151	563	34	1336
Desk. School	G. Marqua	336,417	Feb. 16	1916	502	34	795
Desk. School	G. Munger	354,870	Dec. 21	1774	468	37	1346

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Desk. School	I. Osgood	346,860	Aug. 3	509	140	36	559
Desk. School	J. A. Wilson	340,847	Apr. 27	2489	656	35	465
Desks. Folding top for school	W. P. Conner	338,715	Mar. 30	2503	662	34	1403
Desks. Foot-rest for school	W. P. Conner	338,487	Mar. 23	2179	570	34	1341
Desks. Lock for rotating	F. A. Coffin	344,943	July 6	200	52	36	37
Desks. Tension-joint for school	F. R. Beal	352,968	Nov. 23	1717	461	37	803
Detachable coupling	W. E. Link	334,256	Jan. 12	1099	294	34	211
Detective camera	G. Eastman and F. M. Cossitt	353,545	Nov. 30	2560	683, 684	37	970
Detector: *See* Electric time-detector. Mechanical detector. Time-detector. Gas-leak detector.							
Dial-wheels. Manufacture of	G. E. Hart	338,964	Mar. 30	2848	751	34	1466
Dials. Making spindles for time-piece	M. V. B. Ethridge	350,671	Oct. 12	811	220	37	155
Dials. Method of graduating	R. L. Webb	338,123	Mar. 16	1681	437	34	1242
Diamond or carbon points in tools. Inserting	T. A. Jackson	336,568	Feb. 23	2121	556	34	837
Diaper	D. M. Baldwin	342,494	May 25	2128	562	35	924
Diaper	L. S. Samuel	342,043	May 18	1469	393, 394	35	797
Die: *See* Heel-die. Roller-swaging die. Rivet-forming die. Vulcanized rubber die.							
Die	R. Butterworth	339,084	Mar. 30	3034	801	34	1496
Die	R. Butterworth	340,976	May 4	8	2	35	506
Die	R. Butterworth	343,563	June 15	1165	294	35	1233
Dies. Forming	S. Crump	348,549	Sept. 7	11	3	36	1050
Dies. Holding	C. F. Stone	338,202	Mar. 16	1782	465	34	1263
Dies. Making	J. Brady	335,334	Feb. 2	347	90	34	503
Dietetic compound	J. Carnrick	342,574	May 25	2327	.....	35	944
Dietetic compound	J. Carnrick	342,575	May 25	2238	.....	35	944
Digester or converter, &c	C. S. Wheelwright	337,720	Mar. 9	1128	291	34	1134
Digester or converter	C. S. Wheelwright	337,721	Mar. 9	1129	291	34	1134
Digesters. Lining for	A. D. Little	351,330	Oct. 19	1739	.....	37	330
Digger: *See* Post-hole digger. Potato-digger.							
Dikes and dams. Apparatus for repairing	G. Dembrun	342,077	May 18	1529	408	35	808
Dining-table	C. A. Grillwitzer	348,667	Sept. 7	184	49, 50	36	1080
Dioramic or panoramic structure	C. H. Ritter	337,869	Mar. 16	1324	344	34	1176
Direct-acting engine	G. W. Bigelow	335,884	Feb. 9	1134	299	34	650
Direct-acting engine	A. C. Hands and F. Parkes	353,134	Nov. 23	1964	525, 526	37	850
Direct-acting engine	H. C. Sergeant	354,660	Dec. 21	1483	394	37	1290
Direct-acting engine	C. C. Worthington	342,669	May 25	2369	626, 627	35	969
Direct-acting engine	C. C. Worthington	354,030	Dec. 7	552	150	37	1107
Direct-acting engine	C. C. Worthington	354,524	Dec. 14	1269	339	37	1244
Discal indicator	W. Griffith	352,949	Nov. 23	1691	454	37	798
Disease-germs in sanitary appliances. Destroying	A. Edwards	340,202	Apr. 20	1587	401	35	296
Dish-basin	D. Lombert	352,250	Nov. 9	768	205	37	606
Dish-cover	J. R. Roberts	346,386	July 27	2254	577	36	431
Dish. Covered	E. A. Parker	341,271	May 4	418	114	35	582
Dish. Soap	A. M. Hayward	337,153	Mar. 2	360	94	34	993
Dish. Soap	G. H. Laxton	349,890	Sept. 28	1863	481	36	1419
Dish-washer	C. B. Saunders	352,155	Nov. 9	639	168, 169	37	583
Dish-washer	C. B. Saunders	354,246	Dec. 14	879	232, 233	37	1174
Dish-washer. Centrifugal	A. G. Ingalls	355,088	Dec. 28	2083	547, 548	37	1414
Dish-washing cabinet	J. S. Stevens	346,072	July 20	1815	469	36	339
Dish-washing machine	J. G. Cochran	355,139	Dec. 28	2158	568, 569	37	1429
Dish-washing machine	B. M. Graves	345,380	July 13	804	202	36	150
Dish-washing machine	H. B. Scoville	337,875	Mar. 16	1334	346	34	1179
Dish-washing pan	H. B. Allen	340,027	Apr. 13	1331	332	35	243
Dishes. Machine for cutting oval shell	S. B. Conover	335,431	Feb. 2	479	124, 125	34	527
Dishes. Packing wooden	E. M. Thompson	351,006	Oct. 19	1309	344	37	252
Disinfectant	A. P. Bouton	341,091	May 4	158	.....	35	534
Disinfectant	F. L. Sarmiento and W. L. Grimm	339,935	Apr. 13	1201	.....	35	220
Disinfectant	A. J. Shilton	344,056	June 22	1840	.....	35	1362
Disinfectant	M. Souvielle	342,231	May 18	1719	.....	35	844
Disinfecting apparatus	O. Schimmel	337,522	Mar 9	867	26	34	1091
Disinfecting closets, urinals, &c. Apparatus for	P. Haigh	341,234	May 4	372	102	35	573
Disinfecting device	A. H. Kidney	337,164	Mar. 2	375	98	34	995
Disinfecting-mat	W. Edson	336,557	Feb. 23	2103	553	34	834
Disinfecting materials. Automatic apparatus for dry	B. A. Dryer	333,934	Jan. 5	599	164	34	112
Disinfecting water-closets, &c. Apparatus for	F. J. Mitchell	343,593	June 15	1207	303	35	1240
Disintegrating-machine	W. F. Birge	345,408	July 13	846	212	36	158
Disintegrator	J. W. Parmelee	335,615	Feb. 9	741	197	34	580
Disintegrator and strainer	J. D. Frary	343,809	June 15	1507	379	35	1294
Display-body. Rotary	E. P. Gennert	352,646	Nov. 16	1282	345	37	712
Display-rack	J. A. Miller	336,935	Mar. 2	70	19	34	939
Display-rack. Dry-goods	R. W. Whitehurst	339,081	Mar. 30	3030	800	34	1495
Display-rack for parasols, &c	S. V. Hendryx	349,938	Sept. 28	1923	497	36	1430
Displaying device for primary scholars	J. Du Shane	351,694	Oct. 26	2307	599	37	442
Distance-instrument	J. L. Hansard and G. W. Tribby	333,625	Jan. 5	166	45	34	33
Distance-registering device for wheeled vehicles	E. S. Brownson	336,989	Mar. 2	141	38, 39	34	951
Distillers' slops. Drying	L. J. Cadwell	353,017	Nov. 23	1788	.....	37	817
Distilling ammonia. Process of and apparatus for	W. C. Wren	342,752	May 25	2460	652	35	985
Distilling ammoniacal waters. Apparatus for	B. P. Clapp	335,427	Feb. 2	474	122, 123	34	526

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Distilling apparatus. Domestic water	A. G. W. Rankin	346,221	July 27	2022	522	36	388
Distilling hydrocarbon oil. Process of and apparatus for	H. Frasch	340,499	Apr. 20	2004	515	35	373
Distilling hydrocarbon oils. Apparatus for	R. Dean	342,500	May 25	2143	567	35	926
Distilling oil. Process of and apparatus for	J. W. Norton and F. H. Rouse	336,941	Mar. 2	78	21	34	941
Distilling or refining mineral oils. Apparatus for	N. M. Henderson	340,878	Apr. 27	2533	666, 667	35	472
Distilling petroleum	G. H. Kline	353,362	Nov. 30	2284	610	37	917
Distilling. Process of and apparatus for	J. C. Peden	349,449	Sept. 21	1255	325	36	1293
Distilling turpentine and for the purification of the crude products of distillation thereof. Apparatus for	J. D. Stanley. (Reissue)	10,689	Feb. 16	2076	546	34	823
Distilling wood. Apparatus for	L. Hansen and A. Smith	333,750	Jan. 5	353	95	34	66
Distilling wood. Apparatus for	J. A. Mathieu	344,917	July 6	170	44	36	31
Distilling wood, &c. Apparatus for	J. Roberts	333,673	Jan. 5	233	63	34	45
Distilling wood. Process of and apparatus for	T. W. Wheeler	353,998	Dec. 7	505	136	37	1098
Distributer: *See* Fertilizer-distributer.							
Ditcher and grader. Combined tile	F. C. Woodard	347,282	Aug. 10	1110	297, 298	36	677
Ditching and grading machine	H. Henderson	354,136	Dec. 14	716	192, 193	37	1144
Ditching and tile-laying machine	E. G. Hastings	340,505	Apr. 20	2015	517	35	374
Ditching-machine	W. Emslie	348,624	Sept. 7	127	36	36	1070
Ditching-machine	J. W. Humphreys	351,701	Oct. 26	2314	601, 602	37	443
Ditching-machine	R. H. Kersey	340,128	Apr. 20	1469	371	35	274
Ditching-machine	J. McLachlan	340,141	Apr. 20	1488	376	35	278
Ditching-machine	J. D. McAulis	351,930	Nov. 2	295	81, 82	37	511
Ditching-machine	F. Plumb and S. Wise	341,941	May 18	1334	357	35	772
Ditching-machine	D. J. Powers	340,614	Apr. 27	2169	570, 571, 572	35	408
Ditching-machine	J. C. Sage	350,271	Oct. 5	232	68	37	48
Ditching-machine	J. L. Senteney	334,903	Jan. 26	1964	522	34	385
Ditching-machine	J. M. Smith	343,613	June 15	1237	310, 311	35	1245
Ditching-machine. Railway	G. W. Dye	339,157	Apr. 6	55	17, 18	35	13
Ditching-machine. Railway	A. H. McGrew	345,855	July 20	1518	393	36	284
Ditching-machine supporter	G. W. King	335,759	Feb. 9	947	249	34	617
Ditching machine. Tile	H. Sullivant	338,678	Mar. 23	2436	642	34	1385
Ditching machine. Tile	S. E. Warrick	336,183	Feb. 16	1574	414	34	733
Divider. Proportional	V. L. Ouvdan	342,455	May 25	2070	545	35	914
Dividers	G. M. Pratt	336,868	Feb. 23	2525	666	34	912
Dividers. Parallel	C. Albert	341,714	May 11	1035	274	35	708
Dividing-engine	A. H. Brainard	343,980	June 22	1728	443, 444	35	1343
Dock. Dry	J. E., Jr., and A. H. Simpson	347,895	Aug. 24	2014	534	36	860
Dock. Dry	J. E., Jr., and A. H. Simpson	347,896	Aug. 24	2016	534	36	860
Doll. Speaking and singing	W. J. Lynd	351,785	Nov. 2	81	22	37	473
Doll-supporter	A. Staples	352,161	Nov. 9	653	172	37	585
Doll. Walking	F. W. Peloubet	335,302	Feb. 2	301	80	34	495
Domestic hand-press	J. W. Condon	340,907	Apr. 27	2568	676	35	479
Door	L. S. Enos	355,259	Dec. 28	2334	614	37	1465
Door	E. F. Keller	341,016	May 4	59	16	35	516
Door	T. S. White	347,852	Aug. 24	1951	518	36	850
Door-alarm	N. J. Busby	351,898	Nov. 2	237	67	37	502
Door-alarm	C. G. Edwards	339,750	Apr. 13	963	237	35	176
Door-alarm	E. M. Hotchkiss	345,138	July 6	473	120	36	86
Door and window casing	H. Lucht	354,918	Dec. 28	1848	489	37	1371
Door and window openings. Frame for	J. E. Stuart	350,570	Oct. 12	664	181	37	127
Door attachment	A. H. and F. W. Mackie	352,699	Nov. 16	1358	367	37	727
Door attachment	J. W. Shewmaker	354,661	Dec. 21	1486	394	37	1290
Door attachment. Sliding	W. Spear	334,203	Jan. 12	1010	268, 269	34	196
Door-bolt	M. Driscoll	344,174	June 22	2008	515	35	1393
Door-bolt	S. A. Kintner	338,640	Mar. 23	2381	627	34	1376
Door-bolt	E. O. Ladd	341,489	May 11	719	193	35	646
Door bolt. Jail	J. C. Hintz	345,786	July 20	1423	368	36	269
Door bolt. Prison	F. O. Hanson	353,059	Nov. 23	1860	502	37	829
Door-bumper	B. D. Patrick	335,616	Feb. 9	742	198	34	580
Door-catch adapted to be operated by electricity	W. H. Markland	350,312	Oct. 5	281	80	37	57
Door-check	I. Breckner	351,158	Oct. 19	1511	396	37	290
Door-check	C. Cevor	342,426	May 25	2036	537	35	907
Door-check	G. N. Clemson	344,564	June 29	2550	659	35	1499
Door-check	S. Combs	349,384	Sept. 21	1166	302	36	1277
Door-check	J. Conn	343,398	June 8	768	193	35	1154
Door-check	J. A. Coultans	346,194	July 27	1984	512	36	380
Door-check	W. W. English	344,821	July 6	25	7	36	6
Door-check	W. A. Hinkle and F. C. Jeffery	355,080	Dec. 28	2072	544	37	1412
Door-check	H. A. and H. A. House, Jr	354,551	Dec. 21	1313	348, 349	37	1259
Door-check	L. H. Lemvert	354,559	Dec. 21	1325	352	37	1261
Door-check	A. McNicol	354,336	Dec. 14	1016	269	37	1199
Door-check	J. Merredith	340,143	Apr. 20	1492	377	35	279
Door-check	C. A. Phoenix	343,605	June 15	1226	308	35	1243
Door-check	G. W. Randall	342,224	May 18	1707	455	35	842
Door-check	G. W. Randall	349,604	Sept. 21	1460	376	36	1335
Door-check	J. W. King	350,560	Oct. 12	643	177	37	124
Door-check	J. and I. Roshong	339,586	Apr. 6	723	177	35	126
Door-check	H. A. Rost	345,451	July 13	913	229	36	169
Door-check	F. Saunders	347,517	Aug. 17	1458	387	36	749
Door-check	F. Saunders	347,518	Aug. 17	1459	388	36	750
Door-check	C. H. Shaw	347,525	Aug. 17	1467	389	36	751

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Pages.
Door-check	C. H. Shaw	347,526	Aug. 17	1469	390	36	751
Door-check	E. Smalley	346,235	July 27	2044	526	36	392
Door-check and alarm. Combined	C. Vogel	337,558	Mar. 9	908	232	34	1095
Door check and buffer. Combined	J. Gabet and G. Koehlinger	348,275	Aug. 31	2566	689	36	969
Door check and holder	C. M. McCarty	348,031	Aug. 24	2209	590	36	896
Door check and holder	N. R. Thomas	348,428	Aug. 31	2777	746	36	1012
Door-check. Pneumatic	G. Geer	335,575	Feb. 9	685	180, 181	34	570
Door-closer	A. D. Goodwin	346,742	Aug. 3	364	98	36	532
Door-closer	N. Leidgen	346,294	July 27	2124	547	36	407
Door-closer. Automatic	D. T. Winter	334,834	Jan. 26	1878	500	34	370
Door. Combined storm and screen	A. Lloyd	342,832	June 1	83	20	35	1022
Door. Elevator	P. Scheeler	347,519	Aug. 17	1461	388	36	750
Door fastener. Barn	J. S. Trout	347,748	Aug. 17	1798	479	36	813
Door fastener. Sliding	I. H. Congdon	346,192	July 27	1980	511	36	380
Door for jails or prisons	W. H. Brown	353,662	Dec. 7	11	4	37	1009
Door-hanger	J. J. Baldwin	350,860	Oct. 12	1078	288	37	204
Door-hanger	C. W. Bullard	334,344	Jan. 12	1216	328	34	233
Door-hanger	W. W. Chipman	338,931	Mar. 30	2810	741	34	1459
Door-hanger	I. Doan	352,741	Nov. 16	1406	380	37	737
Door-hanger	E. L. Dunham	347,694	Aug. 17	1723	460	36	799
Door-hanger	C. W. Ewing	352,529	Nov. 16	1119	303	37	683
Door-hanger	T. Hooker	341,007	May 4	49	13	35	514
Door-hanger	J. G. Hyatt	347,109	Aug. 10	878	232	36	634
Door-hanger	A. J. Ives	343,994	June 22	1749	450	35	1347
Door-hanger	W. O. Kasson	348,976	Sept. 14	599	158	36	1163
Door-hanger	J. C. Kupferle	344,914	July 6	167	42, 43	36	31
Door-hanger	H. T. Moody	335,232	Feb. 2	212	55	34	478
Door-hanger	D. Nickel	349,173	Sept. 14	874	223	36	1211
Door-hanger	C. F. Pogue	354,808	Dec. 21	1688	445	37	1329
Door-hanger	E. T. Prindle	350,638	Oct. 12	766	210	37	146
Door-hanger	E. T. Prindle and F. C. Baird	350,639	Oct. 12	767	210	37	147
Door-hanger	M. C. Richards	344,288	June 22	2171	556	35	1422
Door-hanger	L. Terry	343,779	June 15	1471	369	35	1287
Door-hanger	W. C. Wahl	351,947	Nov. 2	317	88	37	516
Door hanger. Sliding	J. Allan	352,906	Nov. 23	1634	439	37	789
Door hanger. Sliding	S. Palmer and C. E. Thompson	340,150	Apr. 20	1503	380	35	281
Door hanger. Sliding	C. C. Runyan	342,710	May 25	2439	647	35	982
Door hanger. Sliding	B. G. Wedd	349,829	Sept. 28	1787	462	36	1403
Door hangers. Track for barn	J. H. Lawrence	350,538	Oct. 12	612	169	37	118
Door-lock	G. G. Ackerson and J. F. Shy	337,108	Mar. 2	300	79	34	982
Door-lock	W. Bohannan	337,044	Mar. 2	218	57, 58	34	965
Door-lock	U. Caron	341,738	May 11	1053	279	35	712
Door lock. Sliding	H. S. Lockwood	346,928	Aug. 10	618	166	36	587
Door lock. Sliding	H. E. Russel, Jr	340,620	Apr. 27	2181	574	35	410
Door lock. Sliding	S. Shipman	353,088	Nov. 23	1900	511	37	837
Door lock. Sliding	C. J. Whitmore	352,018	Nov. 2	419	113	37	536
Door-mat	S. M. Fein	345,291	July 13	687	173	36	130
Door-mat	H. T. Windt	340,901	Apr. 27	2563	675	35	478
Door-mat	H. T. Windt	341,116	May 4	201	61	35	542
Door-opener. Electric	A. Lüngen	353,263	Nov. 23	2144	575	37	886
Door-opener. Electrical	C. Henzel and W. Wood	351,600	Oct. 26	2181	563, 564	37	417
Door-opener. Electrical	D. Rousseau	352,154	Nov. 9	636	168	37	583
Door-operator	E. C. Jenner	349,592	Sept. 21	1443	372	36	1331
Door or blind	H. H. Field	343,807	June 15	1505	379	35	1293
Door or safe lock	M. F. Brown	343,794	June 15	1488	374	35	1290
Door-plate	D. C. Johnson and W. A. Mosher	354,195	Dec. 14	812	216	37	1162
Door-plate, bell-pull, and mail-receiver. Combined	M. A. McGlinn	354,646	Dec. 21	1464	389	37	1286
Door-pull. Magneto-electric	W. Humans	336,518	Feb. 16	2045	537	34	818
Door-roller	P. E. Gansz	343,368	June 8	890	224	35	1176
Door-roller	H. F. Sawtelle	353,507	Nov. 30	2500	667	37	958
Door-saddle	H. Tindell	335,854	Feb. 9	1083	286	34	643
Door. Safe	W. H. Baynard	346,980	Aug. 10	683	181, 182	36	599
Door. Screen	J. N. Lilygren	343,667	June 15	1306	328	35	1257
Door-securer	D. Bromley	334,636	Jan. 19	1618	431	34	313
Door-securer	J. E. Buckingham	349,688	Sept. 28	1567	406	36	1363
Door-securer	F. C. Kirchner and W. H. Washburn.	350,437	Oct. 5	458	129	37	88
Door-securer	M. Simon	343,401	June 8	940	235	35	1185
Door-securer	J. E. White	350,332	Oct. 5	312	89	37	63
Door-securer	H. A. Witman	338,214	Mar. 16	1799	469	34	1266
Door sheave. Sliding	J. J. McMillan	345,314	July 13	716	181	36	135
Door-sill	E. H. Foster	351,260	Oct. 19	1545	432	37	214
Door-sill	L. C. Gillett	350,427	Oct. 5	438	125	37	86
Door-sill	S. E. Hayes	344,963	July 6	224	57	36	41
Door. Sliding	S. Palmer	354,576	Dec. 21	1349	358	37	1266
Door-spring	F. L. Becker	354,087	Dec. 14	632	172	37	1130
Door-spring	D. W. Frost	336,309	Feb. 16	1770	463	34	767
Door-spring	R. Hicks	350,535	Oct. 12	608	168	37	117
Door-spring	H. Lewy	346,296	July 27	2128	548	36	408
Door-spring	J. McDonald and J. P. Courtney	351,457	Oct. 26	1961	510	37	376
Door spring and check. Combined	J. S. Stevens and C. G. Major	333,568	Jan. 5	90	26	34	20
Door. Storm	W. R. Lyle	339,567	Apr. 6	674	164	35	122
Door. Storm	C. F. Teufel	346,788	Aug. 3	414	114	36	541
Doors. Air and water tight threshold for	H. A. Holst	350,931	Oct. 19	1169	311	37	227
Doors and blinds. Hanger for	H. Hinckley	353,788	Dec. 7	186	51, 52	37	1041
Doors and gates. Check for	J. Glass	340,871	Apr. 27	2524	664	35	471
Doors. Apparatus for opening	E. A. Babcock	344,338	June 29	2233	575	35	1441
Doors. Device for fastening prison	L. M. Ham	333,740	Jan. 5	352	95	34	65
Doors. Device for lifting	H. Büssing	354,461	Dec. 14	1176	315	37	1228
Doors. Device for operating cell	P. Hale and W. E. Sparks	346,155	July 27	1934	498	36	370

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Doors for fire-engine houses. Device for fastening, opening, and holding	G. D. Walker	340,743	Apr. 27	2357	621	35	440
Doors. Means for fastening screen-cloth to	C. Whitaker	353,724	Dec. 7	107	29	37	1026
Doors. Mechanism for operating engine-house	A. Coleman	350,913	Oct. 19	1149	306	37	223
Doors, &c. Pneumatic check for	J. B. Edson	352,223	Nov. 9	747	200	37	603
Doors. Stay-roller for sliding	F. P. Coleman	341,640	May 11	932	247	35	687
Doors. Supporting device for	F. V. Phillips	345,988	July 20	1701	438	36	318
Doors. Track and hanger for sliding	H. Soulen	349,536	Sept. 21	1372	356	36	1317
Double-tree	E. R. Procter	347,826	Aug. 24	1919	510	36	844
Double-tree. Spring	W. E. Hagarty	337,397	Mar. 9	693	181	34	1060
Doubling and spinning silk, &c. Stop-motion mechanism for machines for	W. R. Landfear	336,570	Feb. 23	2124	556, 557	34	837
Doubling and twisting machine	T. Briggs and E. Webb	346,396	July 27	2269	581, 582	36	434
Doubling and twisting machine	S Etchells	342,505	May 25	2156	571	35	928
Doubling and twisting yarns. Machine for	W. W. Taylor	343,208	June 8	631	157	35	1130
Doubling and winding machine	T. Briggs and E. Webb	342,063	May 18	1504	462	35	893
Doubling and winding machine	J. E. Tynan	346,693	Aug. 3	304	83, 84	36	520
Doubling frames. Cleaning and tension equalizing device for silk	A. Müller	348,408	Aug. 31	2747	738	36	1005
Doubling-machine	T. Wrigley	345,656	July 13	1238	320	36	229
Doubling-machines. Stop-motion for	J. and J. Nightingale	341,307	May 11	871	232	35	675
Doubling-machines. Stop-motion mechanism for	F. Fearon	349,487	Sept. 21	1304	339, 340	36	1304
Doubling-machines. Stop-motion mechanism for	J. Holroyd	349,939	Sept. 28	1924	498	36	1430
Dough-raiser	G. A. Williams	354,960	Dec. 28	1904	502	37	1382
Dovetailing-machine	E. M. Byrkit	335,335	Feb. 2	350	91	34	504
Dovetailing-machine	T. Carter	347,418	Aug. 17	1313	350	36	723
Dovetailing-machine	G. H. Millen and A. Deronin	336,130	Feb. 16	1478	390, 391	34	719
Dovetailing-machine	J. G. Oetzel	335,833	Feb. 9	1051	277, 278	34	636
Dovetailing-machine	J. B. Schmid	339,700	Apr. 13	892	219	35	163
Dowel-pins. Machine for making	C. F. Stewart	351,292	Oct. 19	1692	444	37	322
Draft attachment for vehicles	J. Clements	348,545	Sept. 7	7	2	36	1050
Draft attachment for wheeled vehicles	G. Carter	337,376	Mar. 9	666	174	34	1056
Draft attachment. Vertical	G. W. Wheater	353,104	Nov. 23	1922	515	37	842
Draft-bar. Harrow	J. E. Beebe	336,375	Feb. 16	1857	487	34	764
Draft-coupling	W. W. Waterberry	339,990	Jan. 26	2087	557	34	407
Draft-door and check-draft	D. E. Paris	353,964	Dec. 7	455	123	37	1089
Draft-equalizer	W. H. Baker	346,798	Aug. 3	424	117	36	543
Draft-equalizer	C. A. Brown	350,288	Oct. 5	254	74	37	53
Draft-equalizer	J. Casey	351,740	Nov. 2	13	4	37	461
Draft-equalizer	A. Curtice	350,580	Oct. 12	675	184	37	129
Draft-equalizer	W. C. Devereaux and M. Murphy	343,659	June 15	1293	325	35	1255
Draft-equalizer	G. C. Flagg	336,708	Feb. 23	2319	607	34	874
Draft-equalizer	T. K. Frankenberry	340,986	May 4	35	9	35	512
Draft-equalizer	A. B. Griswold	345,631	July 13	1189	305	36	220
Draft-equalizer	C. F. Holck	351,917	Nov. 2	277	76	37	508
Draft-equalizer	F. E. Langdon	342,612	May 25	2297	607	35	955
Draft-equalizer	J. M. Langston	334,874	Jan. 26	1929	514	34	379
Draft-equalizer	M. Lynde	339,108	Mar. 30	3072	813	34	1503
Draft-equalizer	M. Lynde	346,054	July 20	1791	461	36	334
Draft-equalizer	A. M. Livelsberger	355,184	Dec. 28	2221	586	37	1442
Draft-equalizer	J. E. Mustard	345,252	July 6	625	159	36	113
Draft-equalizer	L. T. Nichols	339,007	Mar. 30	2928	775	34	1479
Draft-equalizer	J. L. Powles	334,280	Jan. 12	1128	302	34	217
Draft-equalizer	J. L. Powles	353,082	Nov. 23	1883	508	37	834
Draft-equalizer	W. H. Randall	354,225	Dec. 14	849	225	37	1168
Draft-equalizer	J. Staiger and G. H. Scofield	349,372	Sept. 21	1147	296	36	1273
Draft-equalizer	J. F. Tait	355,036	Dec. 28	2009	529	37	1400
Draft-equalizer	R. A. Thompson	335,975	Feb. 9	1351	332	34	671
Draft-equalizer	A. Wheeler	333,705	Jan. 5	286	78	34	54
Draft-equalizer	J. D. White	344,702	June 29	2721	707	35	1533
Draft-equalizer	J. W. Wolfe	346,080	July 20	1825	471	36	341
Draft-hook for vehicles	G. Heon	353,942	Dec. 7	422	114	37	1083
Draft mechanism for vehicles	C. S. Chamberlain	341,094	May 4	161	48	35	534
Draft-regulator	J. Ashcroft	347,550	Aug. 17	1506	400	36	758
Draft-regulator	E. Wood	341,300	May 4	472	127	35	590
Draft-regulator for hot-air furnaces	J. R. Barker	344,559	June 29	2545	657, 658	35	1498
Draft-regulators. Safety apparatus for automatic	C. W. Nason	337,013	Mar. 2	181	48	34	958
Drainer. Dish	M. A. Vail	347,665	Aug. 17	1690	450	36	793
Drapery-hook	E. S. Kenney	345,904	July 20	1585	409	36	297
Draw-bar	J. N. Chilson	336,388	Feb. 16	1878	491	34	788
Draw-bar pin and fastener	C. C. T. Willson	343,653	June 15	1286	323	35	1254
Draw-bars. Manufacture of	M. Kirker	351,382	Oct. 26	1818	478	37	351
Draw-bench	C. A. Svensson	342,474	May 25	2097	554	35	919
Draw-box	H. M. and R. S. Goodman	354,056	Dec. 7	589	160	37	1113
Draw-bridge gate	R. Quatermass and H. R. Ellsworth	350,696	Oct. 12	844	227	37	160
Draw-hoop	A. Hoke	341,845	May 11	1205	323	35	741
Drawer check and support	S. J. Fraser	345,227	July 6	586	149	36	106
Drawer. Exhibition	A. L. Adams	336,615	Feb. 23	2189	571, 572	34	848
Drawer fastening or lock. Gang	S. Shaw	339,486	Apr. 6	538	130	35	100
Drawer-fitting machine	L. C. Cron	339,270	Apr. 6	222	56	35	41
Drawer-guide	L. H. Nourse	353,640	Nov. 30	2714	725	37	996
Drawer-handle	A. H. Jones	339,894	Apr. 13	1147	285	35	212
Drawer-handle	G. P. Rush	339,587	Apr. 6	723	177	35	126
Drawer-pull	C. M. Burgess	346,463	Aug. 3	16	5	36	463
Drawer-pull	M. G. Gillette	354,547	Dec. 21	1307	347	37	1258
Drawer-pull	W. Long	337,412	Mar. 9	721	187	34	1065
Drawer-slide	F. Sabot	354,744	Dec. 21	1608	426	37	1313
Drawers	M. R. House	344,481	June 29	2431	625	35	1477

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Drawers	W. R. Standen	349,910	Sept. 28	1886	487	36	1423
Drawers. Method of strengthening	W. Mitchell	342,626	May 25	2319	612	35	959
Drawers. Support and frame for	A. L. Moore	343,774	June 15	1467	367 368	35	1286
Drawers. Support for	G. Morrow	347,276	Aug. 10	1103	295	36	676
Drawing and twisting. Head for continuous	D. O. Pease	337,015	Mar. 2	184	48	34	958
Drawing apparatus	A. C. Féron	347,099	Aug. 10	866	229	36	632
Drawing. Apparatus for perspective	R. E. Creasey	349,303	Sept. 21	1037	265	36	1252
Drawing-board	H. Howson	340,914	Apr. 27	2577	679	35	480
Drawing machinery. Screw-gill	A. Smith and H. W. Whitehead	347,655	Aug. 17	1673	445 446	36	791
Drawing-roll and saddle therefor. Top	E. J., E. H., and W. T. Carroll	342,779	June 1	8	3	35	1008
Drawings. Apparatus for enlarging and reducing	A. Fougeadoire	333,737	Jan. 5	335	91	34	63
Drawings. Making	C. Palmer	333,325	Nov. 30	2292	598	37	908
Dredge-machine distributer	H. G. Reeder	341,603	May 11	877	234	35	676
Dredge. Salt or pepper	R. Wallace	352,376	Nov. 9	932	250	37	639
Dredger	H. B. Angell	341,539	May 11	796	212	35	660
Dredger. Endless-chain	J. Kennedy	333,637	Jan. 5	184	49	34	36
Dredging and ditching machines. Conveyer for	T. Z. Cole	342,583	May 25	2247	596 597	35	946
Dredging apparatus	G. F. Badger	336,619	Feb. 23	2197	573 574	34	850
Dredging apparatus	A. W. Robinson	341,277	May 4	425	116	35	583
Dredging apparatus. Hydraulic	A. B. Bowers	355,251	Dec. 28	2324	612	37	1463
Dredging-bucket	C. A. Morris	341,763	May 11	1095	290	35	720
Dredging-machine	T. Z. Cole	342,732	May 25	2472	655 656 657	35	987
Dredging-machine	J. McCollough	336,248	Feb. 16	1683	439	34	751
Dredging-machine	J. Thompson	341,611	May 11	891	237	35	679
Dredging-machine	J. Thompson	341,612	May 11	893	237 238	35	680
Dredging-machine	J. Thompson	341,613	May 11	895	238	35	680
Dredging-machine	J. Thompson	341,614	May 11	896	238 239	35	680
Dredging-machine. Pneumatic	W. P. Lewis	355,094	Dec. 28	2098	550 551	37	1417
Dress-form	T. R. Fischer	347,930	Aug. 24	2068	549	36	871
Dress-form	J. D. Richardson	343,729	June 15	1412	352	35	1275
Dress-maker's table	J. R. L'Africain	346,481	Aug. 3	42	11	36	468
Dress-protector	J. M. Haskell	345,970	July 20	1674	433	36	313
Dress-shield	H. Einstein	349,149	Sept. 14	842	215	36	1206
Dress-shield	A. J. Hiscott	338,744	Mar. 30	2550	674	34	1411
Dress-shield	A. J. Hiscott	338,745	Mar. 30	2551	674	34	1411
Dress-shield	J. Janowitz	335,225	Feb. 2	202	53	34	476
Dress-shield. Armpit	I. B. Kleinert	345,595	July 13	1137	290	36	210
Dress-shields. Die for making seamless	A. J. Hiscott. (Reissue)	10,772	Oct. 19	1769	464 465	37	336
Dress-shields. Dies for making seamless	A. J. Hiscott	339,294	Apr. 6	258	65	35	48
Dress-trimming	J. Naidhof	354,715	Dec. 21	1557	412	37	1304
Dressing case or bureau	G. Sugg	333,977	Jan. 5	658	180	34	123
Drier: *See* Boot-drier. Lumber-drier. Clothes-drier. Malt-drier. Fruit-drier. Salt-drier. Grain-drier. Tobacco-drier. Hop-drier. Wool-drier. Laundry-drier.							
Drier	V. D. Anderson	352,907	Nov. 23	1635	439	37	789
Drier	A. Buel	343,755	June 15	1445	360 361	35	1282
Drier	L. J. Cadwell	333,825	Jan. 5	450	122 123	34	84
Drier	L. J. Cadwell	353,016	Nov. 23	1787	481	37	817
Drier	D. A. Greene	337,948	Mar. 16	1442	374	34	1198
Drier	M. Hecking	343,813	June 15	1512	380 381	35	1295
Drier	H. P. McDonald	348,759	Sept. 7	304	81	36	1104
Drier	G. and C. N. Meriwether	343,773	June 15	1467	367	35	1286
Drier	W. D. Speck	344,208	June 22	2056	526	35	1402
Drill: *See* Corn-drill. Ratchet-drill. Dental drill. Ratchet mining-drill. Fork-drill. Rock-drill. Glass-drill. Seed-drill. Grain-drill. Trash-drill. Lemon-drill. Twist-drill. Mining-drill. Well-drill.							
Drill	W. H. McAndrews	353,323	Nov. 30	2230	597	37	908
Drill	A. Miller	339,572	Apr. 6	680	165 166	35	122
Drill and planter. Combined	W. H. Halfaker	352,315	Nov. 9	857	231 232	37	624
Drill attachment	H. S. Spratley	334,817	Jan. 26	1858	495	34	366
Drill-bits. Making	M. Diamond and W. H. Brock	333,506	Jan. 5	13	5	34	6
Drill for wood, &c.	R. D Heurense	334,757	Jan. 26	1786	475	34	352
Drill-frame anchor	F. Bittenbender	338,460	Mar. 23	2153	563	34	1337
Drill-frame. Quarry	W. L. Saunders	340,251	Apr. 20	1664	422	35	309
Drill-hoe	A. Dillard	339,154	Apr. 6	52	17	35	13
Drill-jar	J. M. McCandlish	338,857	Mar. 30	2703	711	34	1440
Drill-machine	J. C. Muirhead	341,813	May 11	1162	310	35	733
Drill-pointing machine	J. S. Bancroft	337,540	Mar. 9	921	236	34	1068
Drill-press	O. Smith	336,598	Feb. 23	2161	565	34	844
Drill-press or slotting-machine. Convertible	L. H. Pierson	341,165	May 4	269	77	35	554

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'gs	Vol.	Page.
Drill-press tool	O. Smith	336,762	Feb. 23	2389	626	34	887
Drill-stock	R. J. Baker	354,085	Dec. 14	629	172	37	1130
Drill-teeth. Gage-wheel attachment for	E. P. Janvier	333,858	Jan. 5	493	134	34	92
Drills. Feed mechanism for	M. Schwärzler	343,734	June 15	1418	353	35	1277
Drills. Machine for clearing twist	J. A. Morton	337,270	Mar. 2	537	141	34	1025
Drilling-machine	F. Bennett	338,021	Mar. 16	1548	401	34	1216
Drilling-machine	W. R. Dickson	353,124	Nov. 23	1944	521	37	847
Drilling-machine	D. Dull	344,256	June 22	2121	542	35	1414
Drilling-machine	W. Evans	335,184	Feb. 2	138	35 36	34	465
Drilling-machine	W. Frech	336,849	Feb. 23	2563	659	34	908
Drilling-machine	A. John	335,758	Feb. 9	946	249	34	617
Drilling-machine	E. L. Mansfield	349,728	Sept. 28	1647	425	36	1376
Drilling-machine	A. F. Prentice	340,615	Apr. 27	2172	572	35	409
Drilling-machine	W. Seng	348,422	Aug. 31	2767	743	36	1010
Drilling-machine	D. Slate	347,969	Aug. 24	2130	567	36	881
Drinking straw or tube holder for tumblers and other glasses	W. E. Coleman	344,567	June 29	2552	660	35	1499
Drip-cup	G. Ashby	335,007	Jan. 26	2102	559	34	410
Driving apparatus	C. Lowther	340,513	Apr. 20	2027	520	35	377
Driving device. Frictional	J. Bachman	350,471	Oct. 12	525	147	37	105
Drop-feed lubricator	W. P. Phillips	350,212	Oct. 5	167	48	37	34
Drop-light and chandelier	J. Trigge	342,982	June 1	287	75	35	1058
Dropper:							
See Fertilizer-dropper. Seed-dropper. Harvester-dropper.							
Drum and oven. Combined heating	D. Van Evera	353,181	Nov. 23	2035	544	37	864
Drum-head strainer	E. J. Cubley	336,876	Oct. 12	1091	295	37	396
Drum-head tightener	C. G. Conn	353,204	Nov. 23	2068	552	37	871
Drum. Heating	J. W. Davis	349,695	Sept. 28	1578	409	36	1365
Drum. Heating	M. N. Kimble	334,075	Jan. 12	805	221	34	157
Drum. Heating	W. C. Lindsey	348,852	Sept. 7	416	113	36	1124
Drum. Heating	J. M. Sherman and J. Anderson	344,414	June 29	2342	602	35	1462
Drum or heat-radiator. Stove-pipe	S. Anderson	346,256	July 27	2078	534	36	398
Drum. Stove-pipe	B. D. Evans	338,145	Mar. 16	1706	445	34	1248
Drum. Snare	G. W. Bemis	342,062	May 18	1504	402	35	803
Drum-snare strainer	A. L. Favaux	349,151	Sept. 14	844	216	36	1206
Drum-tightener	R. Buchanan	355,057	Dec. 28	2040	536	37	1406
Drum. Winding	W. G. Adams	349,196	Sept. 14	903	232	36	1217
Dry-board hook	T. F. Barnum	334,927	Jan. 26	1994	531	34	391
Dry closet	G. F. McMurry	340,805	Apr. 27	2438	641	35	456
Dry closet	I. D. Smead	352,157	Nov. 9	642	169, 170	37	584
Dry earth or carbon closet. Portable	G. H. Ellis	341,464	May 11	694	186	35	641
Drying apparatus	W. D. Anderson	348,541	Sept. 7	1	1	36	1049
Drying apparatus	J. H. Lorimer	354,199	Dec. 14	815	217	37	1162
Drying apparatus	J. H. Lorimer	354,797	Dec. 21	1673	442	37	1326
Drying apparatus	R. Mara	348,566	Sept. 7	45	13	36	1056
Drying apparatus	M. Reuland	352,204	Nov. 9	711	190, 191	37	597
Drying-board	G. L. Smith	346,507	Aug. 3	74	19	36	474
Drying brick, earthenware, &c. Kiln for	J. R. Kemp	352,193	Nov. 9	698	186	37	594
Drying-house	P. Simons	351,662	Oct. 26	2216	586	37	433
Drying-house frame	G. E. Mills	354,727	Dec. 21	1572	416	37	1307
Drying-machine for cloth, &c. Centrifugally-acting	D. M. Weston	353,390	Nov. 30	2323	621	37	925
Drying process	J. H. Lorimer	354,798	Dec. 21	1675	443	37	1327
Drying. Process of	T. G. Walker	347,846	Aug. 24	1944	516	36	849
Dumb-waiter	F. Friedgen	336,046	Feb. 9	1351	357	34	688
Dumb-waiter	J. Murtaugh	353,458	Nov. 30	2420	648	37	945
Dumb-waiters. Brake for	E. W. Moon	349,258	Sept. 14	987	252	36	1234
Dump. Slag	S. E. Bretherton and W. Colburn	339,737	Apr. 13	944	231	35	172
Dumping and discharging apparatus. Automatic	J. T. Evans	343,762	June 15	1453	363	35	1283
Duplex steam-engine	M. W. Hall	349,157	Sept. 14	851	217, 218, 219	36	1207
Dust-arrester	L. W. Holloway	336,238	Feb. 16	1672	435	34	749
Dust-box	J. H. Ethridge	347,701	Aug. 17	1735	463	36	801
Dust-collector	G. Bigler	350,286	Oct. 5	252	73	37	52
Dust-collector	B. A. Davis	351,023	Oct. 19	1334	350	37	257
Dust-collector	J. B. Holgate	345,508	July 13	991	251	36	184
Dust-collector	N. W. Holt	338,639	Mar. 26	2379	626, 627	34	1375
Dust-collector	N. W. Holt	347,243	Aug. 10	1055	282, 283	36	667
Dust-collector	W. Ince	350,059	Sept. 28	2093	541, 542	36	1462
Dust-collector	P. M. Nelson	338,765	Mar. 30	2580	680	34	1417
Dust-collector	W. Richardson	343,400	June 8	939	235	35	1185
Dust-collector attachment	W. Richardson	343,548	June 8	1136	287	35	1220
Dust-pan	T. D. Brown	351,423	Oct. 26	1910	497	37	366
Dust-pan	N. T. Folsom	351,316	Oct. 19	1723	453	37	328
Dust-pan	M. N. Henenway	354,600	Dec. 21	1370	368	37	1273
Dust-pan	F. K. Marsh and M. Margerum	346,761	Aug. 3	384	106	36	536
Dust-pan	H. V. Shaw	341,175	May 4	286	81	35	557
Dust-pan and ash-sifter. Combined	J. O. Beneke	337,550	Mar. 9	925	237	34	1099
Dust-pan holder	D. H. Murphy	340,146	Apr. 20	1495	378	35	279
Dust-pan holder	W. W. Squier	335,545	Feb. 2	632	166	34	553
Dust-removing apparatus	C. L. Wood	345,610	July 13	1153	295	36	213
Dusters. Adjustable handle for	E. G. Nunn	347,123	Aug. 10	893	237	36	637
Dye-stuffs from basic rosaniline. Manufacture of sulphonated purple	C. L. Müller	353,264	Nov. 23	2145	.....	37	886
Dye-stuffs from basic rosaniline. Manufacture of sulphonated purple	C. L. Müller	353,265	Nov. 23	2147	.....	37	886
Dye-stuffs from basic rosaniline. Manufacture of sulphonated purple	C. L. Müller	353,266	Nov. 23	2148	.....	37	886

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Dye-stuff from benzylbiphenylamine. Sulphonated purple	H. Bull and C. L. Müller	346,022	July 20	1754	.....	36	327
Dyed. Machine for condensing warps for being	J. F. Lawry	334,122	Jan. 12	873	239	34	169
Dyed. Machine for separating and drying warps after being	W. Kerr	348,130	Aug. 24	2344	629	36	922
Dyeing and washing wool and cotton. Machine for	W. and M. Pollard	338,438	Mar. 23	2114	553	34	1329
Dyeing apparatus	J. Gillet	345,892	July 20	1572	405, 406	36	294
Dyeing apparatus	J. Hanson	338,839	Mar. 30	2679	705, 706	34	1435
Dyeing apparatus	A. Moran	334,798	Jan. 26	1835	489	34	362
Dyeing apparatus	J. O. Obermaier	335,712	Feb. 9	882	232	34	604
Dyeing apparatus	J. O'Connell and F. E. Weeden	334,889	Jan. 26	1945	517	34	381
Dyeing apparatus	L. Weldon	347,404	Aug. 17	1296	345	36	730
Dyeing apparatus	L. Weldon	354,281	Dec. 14	944	249	37	1184
Dyeing, &c. Apparatus for	W. Birch	344,238	June 22	2097	535, 536	35	1409
Dyeing. Apparatus for	E. Rau	347,959	Aug. 24	2116	564	36	879
Dyeing cotton fiber	O. Bielschowski	343,793	June 15	1487	.....	35	1290
Dyeing hat-bodies	H. F. Dietz	341,409	May 4	614	.....	35	616
Dyeing-machine	J. Hanson	354,901	Dec. 28	1821	482	37	1366
Dyeing wool azodiphenyl blue	C. Lobmann	354,714	Dec. 21	1556	.....	37	1304
Dyeing yarn. Machine for	E. Zillessen	345,269	July 6	649	165	36	118
Dynamite	M. Eissler	347,424	Aug. 17	1319	.....	36	724
Dynamo-machines. Belt-controller for	B. F. Radford	350,154	Oct. 5	80	23	37	17
Dynamometer	J. Emerson	346,404	July 27	2281	585, 586	36	436
Dynamometer	G. Westinghouse, Jr., and F. Moore	349,130	Sept. 14	818	207, 208	36	1200
Ear-bending machine. Automatic	F. M. Leavitt	353,261	Nov. 23	2134	573, 574	37	884
Ear-drum. Artificial	H. P. K. Peck	351,398	Oct. 26	1877	489	37	360
Ear-drum. Artificial	H. A. Wales	335,660	Feb. 9	801	213	34	591
Ear-knob	A. B. Adams and E. S. Dodge	335,100	Feb. 2	1	1	34	441
Ear-muff	E. R. Barnes	352,798	Nov. 16	1487	401	37	751
Ear-muff	A. L. Britton	352,033	Nov. 2	438	119	37	541
Ear-muff	A. L. Britton	352,033	Nov. 2	438	119	37	541
Ear-muff	C. C. Shelby	346,175	July 27	1958	505	36	375
Ear-rings. Ear-wire for	L. Dreyfus	355,007	Dec 28	1968	518	37	1393
Earth-boring machine	J. E. Davis	333,931	Jan. 5	596	163	34	112
Earth-closet	W. Heap	345,053	July 6	358	90	36	65
Earth-closet	W. Heap	347,037	Aug. 10	766	204	36	614
Earthenware and glassware and ornamenting the same.	D. S. Plumb	347,195	Aug. 10	995	266	36	656
Earthenware, &c. Link-press for making	F. G. and A. Johnson	349,432	Sept. 21	1228	318	36	1288
Earthenware. Making porous	C. C. Gilman	353,631	Nov. 30	2690	.....	37	993
Earthenware, &c. Muffle for	F. R. Gillinder	337,575	Mar. 9	952	244	34	1104
Earthenware product with strengthening-cores. Porous	C. C. Gilman	349,585	Sept. 21	1435	370	36	1330
Easel	E. B. Crocker	338,165	Mar. 16	1734	452	34	1253
Easel	G. R. Osborn and A. F. Gregory	338,355	Mar. 23	1694	525	34	1308
Easel. Artist's	J. W. Turner	353,719	Dec. 7	99	26	37	1024
Easel. Plaque	S. R. Pay	354,211	Dec. 14	829	220	37	1165
Easel-shelf bracket	T. P. Watkins	334,007	Jan. 12	792	217	34	155
Easel. Sketching	E. G. Mead	337,512	Mar. 9	875	232	34	1089
Easy-chair and sofa-bedstead. Combined	W. P. Bean	343,265	June 8	714	177	35	1145
Eaves-trough	W. C. Berger	334,166	Jan. 12	939	254	34	181
Eaves-trough and girder therefor	B. S. Baker	354,352	Dec. 14	1059	283	37	1207
Eaves-trough brace and hanger	A. De Witt	338,718	Mar. 30	2506	663	34	1404
Eaves-trough hanger	W. C. Berger	350,906	Oct. 19	1146	305	37	223
Eaves-trough hanger	W. H. Berger	339,847	Apr. 13	1086	270	35	199
Eaves-trough hanger	W. H. Berger	344,236	June 22	2094	535	35	1409
Eaves-trough hanger	W. H. Berger	145,102	July 6	430	108	36	77
Eaves-trough hanger	D. H. Harman	347,346	Aug. 17	1217	325	36	706
Eaves-trough hanger	H. J. Hoepfner	346,655	Aug. 3	259	71	36	511
Eaves-trough support	W. R. Wilcox	334,831	Jan. 26	1874	499	34	369
Eccentric-shifting mechanism	J. Kaiser	352,995	Nov. 23	1755	470, 471	37	810
Edge-trimmer for walks and beds	T. Akins	339,359	Apr. 6	350	85	35	65
Edger and cant sawing machine. Combined	W. M. Wilkin	336,193	Feb. 16	1588	416, 417	34	736
Edger. Double and gang	M. Garland	333,847	Jan. 5	478	130	34	89
Edger. Gang	E. H. Barnes	336,782	Feb. 23	2416	635, 636	34	892
Edger. Gang	C. A. Merrill	333,882	Jan. 5	525	142, 143	34	98
Edger. Gang	S. R. Smith and E. Myers	343,405	June 8	945	236	35	1186
Edger. Gang	S. R. Smith and E. Myers	348,065	Aug. 24	2263	606	36	907
Edger. Gang	S. S. Vail and J. Solliday	334,097	Jan. 26	2084	556	34	407
Educational blocks	S. G. Kenyon	341,754	May 11	1085	289	35	718
Educational device	F. W. Peckham	335,837	Feb. 9	1061	280	34	638
Educational device for the illustration of longitude and time.	D. C. Young. (Reissue)	10,683	Feb. 2	652	171	34	558
Egg beater	J. T. Carley	354,684	Dec. 21	1518	403	37	1296
Egg-beater	F. A. Houck	355,170	Dec. 28	2203	581	37	1438
Egg-beater	G. Laube	346,375	July 27	2237	574	36	428
Egg-beater	E. A. Marsh	345,709	July 20	1308	338	36	248
Egg-beater	W. H. Silver	341,697	May 11	1019	269	35	705
Egg-beater	G. H. Thomas	350,023	Sept. 28	2043	527	36	1452
Egg-beater	W. Vickers	350,708	Oct. 12	857	231	37	163
Egg-boiler and steamer	W. L. Chipley	341,878	May 18	1292	336	35	758
Egg-box	E. C. Bower	349,919	Sept. 28	1895	491	36	1425
Egg-carrier	A. C. Rumble	343,968	June 15	1712	438	35	1333
Egg-carrier	J. Shibley	347,835	Aug. 24	1930	512	36	846

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Egg-case	T. M. Appling	339,612	Apr. 13	763	189	35	141
Egg-case	A. L. Marvin	338,094	Mar. 16	1644	428	34	1236
Egg-case	S. D. G. Niles	350,442	Oct. 5	465	131	37	90
Egg-case	M. Seidel	354,659	Dec. 21	1482	394	37	1289
Egg poacher and egg-frier	W. H. Silver	352,272	Nov. 9	802	215	37	613
Egg-preserving apparatus	T. J. Moore	347,498	Aug. 17	1430	380	36	744
Egg-preserving cabinet	O. F. Burke	354,826	Dec. 21	1713	454	37	1334
Egg-preserving device	O. W. Jones	353,636	Jan. 26	181	49	34	36
Egg-register	C. Marti	336,333	Feb. 16	1800	471	34	773
Egg-register	H. Shellenberg and E. Stiemke	333,678	Jan. 5	240	66	34	47
Egg-tester	H. Clipp	354,966	Dec. 28	1911	504	37	1383
Egg-tester	W. S. Vansant and R. W. Cooke	351,542	Oct. 26	2085	541	37	401
Egg-tray	N. F. Tipton	334,826	Jan. 26	1869	498	34	368
Eggs. Preserving	J. W. McKee	345,065	July 6	376	.....	36	69
Ejector. Bilge-water	G. Haydn	349,497	Sept. 21	1321	343	36	1307
Ejector. Fluid-	G Haydn	353,219	Nov. 23	2083	557	37	874
Ejector. Fluid-	C. White	346,792	Aug. 3	418	115	36	542
Ejector. Fluid-	C. White	346,878	Aug. 3	541	147	36	565
Ejector. Fluid-	C. White	346,967	Aug. 10	668	178	36	596
Ejector. Fluid-	C. White. (Reissue)	10,786	Nov. 30	2733	728	37	1000
Ejector for vacuum-brakes	E. D. Eames	341,894	May 18	1275	341	35	762
Ejector or injector	H. P. Tenant	351,005	Oct. 19	1308	343	37	252
Ejector Steam-	L. Schutte	337,443	Mar. 9	787	200	34	1075
Elastic fabric	J. Bidmead	351,570	Oct. 26	2126	550	37	408
Electric alarm	C. M. Barnes	344,233	June 22	2089	534	37	1408
Electric alarm	C. H. Crockett and C. C. Allen	346,532	Aug. 3	106	28	36	480
Electric alarm	W. L. Glanville	346,587	Aug. 3	171	46	36	493
Electric alarm apparatus	C. H. Hilton	334,380	Jan. 12	1255	339	34	240
Electric alarm apparatus	W. C. Smith	343,863	June 15	1573	399 / 400	35	1306
Electric and electro-magnetic machine. Dynamo-	R. Eickemeyer	342,587	May 25	2254	599	35	948
Electric and electro-magnetic machine. Dynamo-	R. Eickemeyer	342,588	May 25	2257	599	35	948
Electric-arc light	W. F. Buckley	337,737	Mar. 9	1148	298	34	1138
Electric-arc light	G. A. Gage and C. W. Crary	334,073	Jan. 12	802	220	34	157
Electric-arc light	G. M. Lane	350,140	Oct. 5	56	16	37	13
Electric-arc light	E. C. Pyle	353,643	Nov. 30	2718	726	37	997
Electric-arc light	F. Thone	348,799	Sept. 7	350	95	36	1113
Electric batteries. Zinc for	W. S. Platt	344,750	June 29	2790	722	35	1544
Electric battery	E. Bazin	349,380	Sept. 21	1160	300	36	1276
Electric battery	J. Beattie, Jr	346,528	Aug. 3	101	27	36	479
Electric battery	H. B. Cox	350,294	Oct. 5	363	.....	37	54
Electric battery	C. J. Hirlmann	351,602	Oct. 26	2185	564	37	418
Electric battery	J A. Kendall	353,141	Nov. 23	1975	528	37	852
Electric battery	O. Lugo	346,053	July 20	1790	461	36	334
Electric battery	C. Wirt	345,756	July 20	1379	358	36	261
Electric battery and means for emptying and recharging it with the exciting-fluid.	J. T. Armstrong	340,474	Apr. 20	1965	505 / 506	35	365
Electric-battery cell	J. W. Carter	337,045	Mar. 2	220	58	34	966
Electric-battery element or electrode	E. T. Starr	347,259	Aug. 10	1082	289	36	672
Electric battery. Secondary	A. De Khotinsky	347,231	Aug. 10	1042	278	36	664
Electric battery. Secondary	E. Julien	347,300	Aug. 10	1144	306	36	683
Electric cable	S. F. Shelbourne	343,676	June 15	1320	330	35	1259
Electric cable. Multiple	J. J. C. and M. Smith	343,082	June 1	434	111	35	1086
Electric cable. Underground	B. Williams	350,515	Oct. 12	584	162	37	114
Electric cables. Making	J. J. C. and M. Smith	343,081	June 1	431	111	35	1085
Electric cables. Manufacture of	J. J. C. Smith	343,083	June 1	437	111	35	1086
Electric call. Chronometer	W. L. Bailie and G. H. Mills	344,072	June 22	1866	479 / 480	35	1367
Electric call-generator	E. T. Gilliland	335,693	Feb. 9	848	224	34	599
Electric chain battery	R. N. Rockwell	345,178	July 6	520	133	36	95
Electric circuit	H. C. Spalding	346,509	Aug. 3	76	21	36	475
Electric circuit	H. C. Spalding	346,510	Aug. 3	77	21	36	475
Electric-circuit closer	J. Geary	351,858	Dec. 21	1732	463	37	1342
Electric-circuit controller	W. Stanley, Jr.	353,603	Nov. 30	2642	706	37	985
Electric-circuit regulator	M. J. Wightman	345,561	July 13	1091	279	36	202
Electric circuits. Automatic means for opening and closing	G. F. de Solomé	344,948	July 6	207	53	36	38
Electric circuits. Cut-out for	J. M. Fairchild	348,455	Aug. 31	2817	756	36	1019
Electric circuits. Fusible cut-out for	G. G. Perkins	348,048	Aug. 24	2827	596	36	900
Electric circuits. Device or means for making and breaking	V. Willis	342,157	May 18	1625	434	35	827
Electric circuits. Indicator for	O. F. Jönsson	341,918	May 18	1306	349	35	767
Electric circuits. Resistance-block for	M. M. M. Slattery	354,257	Dec. 14	902	239	37	1177
Electric circuits. Reverse-current interceptor for	A. G. Holcombe	343,373	June 8	894	225	37	1177
Electric circuits. Safety cut-out for	E. R. Whitney	350,648	Oct. 12	732	213	37	149
Electric circuits. Safety strip for	E. Weston	348,646	Sept. 7	154	43	36	1075
Electric circuits. Switch for	J. M. Fairchild and J. O Connor	348,456	Aug. 31	2818	757	36	1019
Electric circuits. Switch or turn-off for	E. Thomson	335,548	Feb. 2	635	166	34	554
Electric communication	A. E. Dolbear	350,299	Oct. 5	266	76	37	55
Electric conductor	E. D. McCracken	351,191	Oct. 19	1559	410	37	299
Electric conductor. Suspended	C. J. Van Depoele	344,425	June 29	2358	607	35	1464
Electric conductor. Underground	E. D. McCracken	351,193	Oct. 19	1564	411	37	300
Electric conductors. Conduit for	H. Fondersmith	344,732	June 29	2764	716	35	1539
Electric conductors. Conduit for	J. F. Munsie	344,324	June 22	2212	569	35	1430
Electric conductors. Manufacturing	E. G. Acheson	343,099	June 1	463	118	35	1091
Electric conductors. Reel for	J. M. Bowyer	351,488	Oct. 26	2010	523	37	385
Electric conductors. Underground conduit for	J. M. Jägel	338,971	Mar. 30	2858	755	34	1468
Electric conductors. Vulcanizing the insulating covering of	M. Smith	343,084	June 1	438	112	35	1086
Electric coupler. Automatic	J. S. Raworth	338,550	Mar. 23	2253	592 / 593	34	1354
Electric-current converter	R. A. Ripley	347,642	Aug. 17	1655	439	36	787
Electric-current indicator	E. H. Amet	340,538	Apr. 27	2064	533	35	391
Electric-current indicator	R. H. Mather	351,388	Oct. 26	1834	481 / 482	37	354

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Electric-current indicator	F. A. Swan	342,475	May 25	2098	554	35	919
Electric-current indicator	M. Waddell	353,649	Nov. 30	2726	727	37	999
Electric-current indicator	E. Weston	340,403	Apr. 20	1869	480	35	348
Electric-current meter	F. Borel and E. Paccaud	337,123	Mar. 2	322	84	34	986
Electric-current meter	J. J. Green	337,679	Mar. 9	1073	277	34	1125
Electric-current regulator	E. Thomson	353,179	Nov. 23	2028	543	37	863
Electric-current regulator	M. J. Wightman	348,876	Sept. 7	452	120	36	1131
Electric-current regulator. Automatic	C. F. Brush	351,961	Nov. 2	353	92, 93	37	520
Electric-current. Distribution of	E. Thomson	350,958	Oct. 19	1307	321	37	323
Electric currents from or to moving surfaces. Device for taking	R. Eickemeyer	351,907	Nov. 2	255	71, 72	37	505
Electric cut-out	C. Eschwei	354,466	Dec. 14	1182	316	37	1229
Electric cut-out	A. Lüngen	341,384	May 4	582	160	35	611
Electric device	A. Lüngen	352,474	Nov. 9	1052	283	37	663
Electric distribution. System of	L. Gaulard and J. D. Gibbs	351,589	Oct. 26	2161	559	37	414
Electric distribution. System of	E. Thomson	335,159	Feb. 2	84	22, 23	34	455
Electric elevator	J. H. Clark	353,123	Nov. 23	1943	520	37	846
Electric energy. Distribution of	G. and A. Pfannkuche	343,603	June 15	1221	307	35	1242
Electric furnace and operating the same	A. H. Cowles	335,058	Jan. 26	2177	578, 579	34	422
Electric furnace for metallurgic operations	E. H. and A. H. Cowles	335,059	Jan. 26	2180	579	34	423
Electric generator	W. Stanley, Jr.	349,615	Sept. 21	1472	380	36	1337
Electric generator. Dynamo-	C. J. Van Depoele	338,320	Mar. 23	1944	512	34	1299
Electric generators. Regulator for dynamo-	M. Deprez and J. Carpentier	348,385	Aug. 31	2716	729	36	999
Electric igniting-machine. Dynamo-	H. J. Smith	353,827	Dec. 7	245	65	37	1051
Electric leak-alarm for pipes	H. G. Bauman	337,116	Mar. 2	311	82	34	984
Electric-light circuits. Automatic cut-out for	W. Stanley, Jr.	349,613	Sept. 21	1470	379	36	1337
Electric-light circuits. Automatic cut-out for	W. Stanley, Jr.	349,614	Sept. 21	1471	380	36	1337
Electric-light circuits. Regulator for	W. M. Thomas	333,698	Jan. 5	276	75	34	53
Electric-light fixture	S. Bergmann	337,296	Mar. 2	560	147	34	1029
Electric-light hanger. Incandescent	H. E. Brown	347,767	Aug. 24	1825	486	36	826
Electric light. Multiplex	A. C. Ferguson	334,365	Jan. 12	1242	334	34	238
Electric-light reflector or reflectors	W. A. Jones	344,532	June 29	2510	646, 647	35	1490
Electric-light system	W. M. Schlesinger	341,059	May 4	118	36	35	526
Electric lights. Apparatus for suspending	T. H. Brady	338,920	Mar. 30	2798	737	34	1456
Electric lights. Cap-iron for poles for suspending	T. H. Brady	339,371	Apr. 6	369	90	35	69
Electric lights. Circuit-controlling key for incandescent	A. G. Brown	345,880	July 20	1548	409	36	290
Electric lights. House-wiring for	L. Stieringer and J. H. Vail	343,087	June 1	442	112, 113	35	1087
Electric lights. Means for suspending	T. H. Brady	338,919	Mar. 30	2797	737	34	1455
Electric lights. Manufacture of carbon conductors for incandescent	E. Weston	340,397	Apr. 20	1863	478	35	347
Electric lights or gas or oil lamps. Suspending	J. N. B. Moore	348,407	Aug. 31	2745	737	36	1005
Electric lights. Rheostat for incandescent	S. A. Hill	336,716	Feb. 23	2326	610	34	875
Electric lights. Skeleton tower for	J. S. Adams	336,371	Feb. 16	1851	485, 486	34	783
Electric lighting	J. E. H. Gordon	354,781	Dec. 21	1655	437, 438	37	1322
Electric lighting apparatus	A. C. Ferguson	334,366	Jan. 12	1243	334, 335	34	238
Electric lighting apparatus	A. C. Ferguson	351,369	Oct. 26	1800	473	37	347
Electric lighting apparatus. Incandescent	H. P. Brown	337,923	Mar. 16	1398	362, 363	34	1190
Electric lighting. Application of secondary batteries to	E. R. Knowles	353,142	Nov. 23	1977	528	37	853
Electric lighting. Arc and incandescent	H. P. Brown	352,035	Nov. 2	444	120	37	542
Electric lighting. Connecting and disconnecting generators for	J. W. Howell	353,035	Nov. 23	1821	490	37	822
Electric lighting circuit	R. Mackie	337,005	Mar. 2	167	44	34	955
Electric lighting of railway-trains	C. E. Buell	353,248	Nov. 23	2119	567, 568	37	881
Electric lighting system	P. Diehl	350,482	Oct. 12	539	150	37	107
Electric lighting system	H. M. Doubleday	335,060	Jan. 26	2181	579	34	423
Electric lighting system	R. Mackie and N. McCarty	337,004	Mar. 2	166	44	34	955
Electric lighting system	W. Stanley, Jr.	333,564	Jan. 5	85	25	34	18
Electric lighting system	J. H. R. Ward and W. J. Jenks	342,549	May 25	2205	584	35	938
Electric lighting system	E. Weston	348,649	Sept. 7	159	44	36	1076
Electric lighting. System for	E. Weston	340,404	Apr. 20	1870	480	35	348
Electric lighting. System of	J. E. H. Gordon	354,783	Dec. 21	1658	438	37	1323
Electric lighting systems. Distributing appliance for	E. W. Rice, Jr.	354,233	Dec. 14	857	227, 228	37	1170
Electric lock and bolt-moving mechanism	F. Sedgwick	347,070	Aug. 10	828	220, 221	36	625
Electric machine and electric motor. Dynamo-	C. G. Curtis and S. S. Wheeler	354,539	Dec. 21	1297	345	37	1257
Electric machine and electric motor. Dynamo-	S. S. Wheeler and C. G. Curtis	354,588	Dec. 21	1365	362	37	1268
Electric machine and motor. Dynamo-	W. L. Voelker	335,326	Feb. 2	334	88	34	501
Electric machine. Compound-wound dynamo-	E. Thomson	349,912	Sept. 28	1887	488	36	1424
Electric machine. Dynamo-	E. Bain	337,041	Mar. 2	215	57	34	965
Electric machine. Dynamo-	R. E. Ball	336,780	Feb. 23	2414	635	34	891
Electric machine. Dynamo-	R. E. Ball	338,692	Mar. 30	2465	650, 651	34	1396
Electric machine. Dynamo-	R. E. Ball	338,910	Mar. 30	2785	734	34	1453
Electric machine. Dynamo-	C. Batchelor	338,383	Mar. 23	2038	535	34	1315
Electric machine. Dynamo-	C. Batchelor	341,990	May 18	1395	373	35	783
Electric machine. Dynamo-	C. Batchelor and H. E. Walter	339,839	Apr. 13	1076	268	35	197
Electric machine. Dynamo-	C. Coerper	353,414	Nov. 30	2365	630	37	933
Electric machine. Dynamo-	R. Eickemeyer	342,589	May 25	2259	599	35	948
Electric machine. Dynamo-	G. Forbes	338,169	Mar. 16	1737	453, 454	34	1254
Electric machine. Dynamo-	W. E. Freeman	344,801	June 29	2862	740	35	1559
Electric machine. Dynamo-	J. M. A. Gérard-Lescuyer	336,636	Feb. 23	2218	578, 579	34	853
Electric machine. Dynamo-	C. Hering	335,355	Feb. 2	379	98	34	509

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Electric machine. Dynamo-	J. Jenkins	350,000	Sept. 28	2011	519	36	1446
Electric machine. Dynamo-	N. S. Keith	353,310	Nov. 30	2211	592	37	904
Electric machine. Dynamo-	R. Kennedy	350,003	Sept. 28	2014	520, 521	36	1447
Electric machine. Dynamo-	A. G. Ketchum	343,129	June 1	513	130	35	1099
Electric machine. Dynamo-	R. H. Mather	353,151	Nov. 23	1991	532, 533	37	850
Electric machine. Dynamo-	C. A. Parsons	344,542	June 29	2523	651, 652, 653	35	1493
Electric machine. Dynamo-	E. A. Sperry	354,945	Dec. 28	1888	497	37	1379
Electric machine. Dynamo-	E. A. Sperry	354,946	Dec. 28	1889	498	37	1379
Electric machine. Dynamo-	S. H. Tacy	343,930	June 15	1655	425	35	1324
Electric machine. Dynamo-	E. Thomson	333,573	Jan. 5	102	29	34	22
Electric machine. Dynamo-	C. J. Van Depoele	337,806	Mar. 16	1360	353	34	1163
Electric machine. Dynamo-	H. E. Walter	351,544	Oct. 26	2080	542	37	402
Electric machine. Dynamo-	E. Weston	340,395	Apr. 20	1861	478	35	346
Electric machine or electric motor. Dynamo-	R. Eickemeyer	351,906	Nov. 2	252	70, 71	37	504
Electric machine or motor. Dynamo-	C. G. Curtis and F. B. Crocker	354,538	Dec. 21	1294	344, 345	37	1256
Electric machine or motor. Dynamo-	W. L. Voelker	335,325	Feb. 2	332	87	34	501
Electric-machine regulator. Dynamo-	R. E. Ball	338,333	Mar. 23	1961	516	34	1303
Electric-machine regulator. Dynamo-	R. M. Hunter	347,937	Aug. 24	2078	552	36	873
Electric-machine regulator. Dynamo-	J. H. Irwin	354,791	Dec. 21	1666	440	37	1324
Electric-machine regulator. Dynamo-	O. P. Loomis and H. W. Cooley	337,775	Mar. 9	1194	310	34	1146
Electric-machine regulator. Dynamo-	O. P. Loomis and H. W. Cooley	337,776	Mar. 9	1196	311	34	1147
Electric-machine regulator. Dynamo-	O. P. Loomis and H. W. Cooley	350,754	Oct. 12	918	247	37	174
Electric-machine regulator. Dynamo-	R. H. Mather	334,712	Jan. 19	1721	459	34	332
Electric-machine regulator. Dynamo-	R. H. Mather	337,778	Mar. 9	1198	311	34	1147
Electric-machine regulator. Dynamo-	O. B. Shallenberger	337,628	Mar. 9	1013	260, 261	34	1115
Electric-machine regulator. Dynamo-	S. H. Short	347,204	Aug. 10	1005	258	36	658
Electric-machine regulator. Dynamo-	E. A. Sperry	353,966	Dec. 7	487	133	37	1095
Electric-machine regulator. Dynamo-	E. A. Sperry	353,988	Dec. 7	490	133	37	1096
Electric-machine regulator. Dynamo-	N. Tesla	336,961	Mar. 2	103	28, 29	34	945
Electric-machine regulator. Dynamo-	N. Tesla	336,962	Mar. 2	105	29	34	945
Electric-machine regulator. Dynamo-	N. Tesla	350,954	Oct. 19	1199	319	37	233
Electric-machine regulator. Dynamo-	E. Thomson	354,273	Dec. 14	928	244	37	1181
Electric-machine regulator. Dynamo-	E. Thomson and E. W. Rice	339,079	Mar. 30	3026	799, 800	34	1495
Electric-machine regulator. Dynamo-	C. J. Van Depoele	335,659	Feb. 9	799	213	34	591
Electric-machine regulator. Dynamo-	J. E. Watson	336,608	Feb. 23	2172	568	34	846
Electric machine. Steam dynamo-	L. G. Woolley	341,303	May 4	414	128	35	591
Electric machine. Unipolar dynamo-	S. Z. de Ferranti	341,097	May 4	165	49, 50	35	535
Electric machine. Unipolar dynamo-	C. Hering	339,772	Apr. 13	989	244, 245	35	181
Electric machines and electric motors. Commutator for dynamo-	P. Diehl	351,167	Oct. 19	1521	399	37	292
Electric machines. Annular armature for dynamo-	E. A. Sperry	353,989	Dec. 7	492	133	37	1096
Electric machines. Armature for dynamo-	F. Bain	337,042	Mar. 2	217	57	34	965
Electric machines. Armature for dynamo-	H. R. Boissier	335,105	Feb. 2	5	2	34	442
Electric machines. Armature for dynamo-	A. Bossard	348,883	Sept. 7	468	123, 124	36	1133
Electric machines. Armature for dynamo-	C. F. Brush	336,087	Feb. 16	1427	377	34	709
Electric machines. Armature for dynamo-	C. Coerper	337,558	Mar. 9	934	239	34	1108
Electric machines. Armature for dynamo-	W. Stanley, Jr., and O. B. Shallenberger.	333,563	Jan. 5	84	24, 25	34	18
Electric machines. Armature for dynamo-	E. P. Warner	346,965	Aug. 10	665	177	36	596
Electric machines. Armature for dynamo-	D. Williamson	354,292	Dec. 14	956	252, 253	37	1186
Electric machines. Brush-holder for dynamo-	A. Schmid	353,164	Nov. 23	2009	538	37	859
Electric machines. Brush-shifter for dynamo-	E. H. Amet	340,539	Apr. 27	2066	533	35	391
Electric machines. Circuit-connection for dynamo-	N. McCarty	337,010	Mar. 2	178	47	34	957
Electric machines. Commutator for dynamo-	T. E. Adams	340,537	Apr. 27	2063	533	35	391
Electric machines. Commutator for dynamo-	N. Tesla	334,823	Jan. 26	1866	497	34	367
Electric machines. Compensating resistance for dynamo-	C. Hering	339,773	Apr. 13	992	245	35	181
Electric machines, motors, &c. Regulator for dynamo-	E. Thomson	353,180	Nov. 23	2031	543, 544	37	864
Electric machines. Reversing-gear for dynamo-	E. J. Houghton and T. M. Collet	351,699	Oct. 26	2311	600, 601	37	442
Electric machines. Safety attachment for dynamo-	L. G. Woolley	351,419	Oct. 26	1906	496	37	365
Electric meter	S. Z. de Ferranti	338,588	Mar. 23	2305	603, 604	34	1362
Electric meter	J. I. Drake	335,687	Feb. 9	838	222	34	597
Electric meter	J. R. Grove	343,456	June 8	1008	251	35	1197
Electric meter	S. D. Mott	336,132	Feb. 16	1481	391	34	720
Electric meter	S. D. Mott	336,133	Feb. 16	1482	392	34	720
Electric meter	J. S. Raworth	338,549	Mar. 23	2252	591, 592	34	1354
Electric motor	J. Beattie, Jr	346,527	Aug. 3	100	26	36	479
Electric motor	E. M. Bentley	338,023	Mar. 16	1551	401	34	1217
Electric motor	A. Bossard	349,563	Sept. 21	1406	364	36	1324
Electric motor	L. Daft	336,629	Feb. 23	2209	576	34	851
Electric motor	P. Diehl	350,668	Oct. 12	807	220	37	154
Electric motor	C. Doriot	344,643	June 29	2652	686	35	1519
Electric motor	J. Doyle	343,444	June 8	1000	249	35	1195
Electric motor	N. H. Edgerton	354,111	Dec. 14	673	181, 182	37	1137
Electric motor	J. E. Emley	344,262	June 22	2128	543	35	1415
Electric motor	F. E. Fisher	335,998	Feb. 9	1284	340	34	677
Electric motor	E. T. and D. Higham	343,176	June 8	599	147	35	1123
Electric motor	E. T. and D. Higham	349,715	Sept. 28	1624	419	36	1372
Electric motor	V. E. Keegan	338,977	Mar. 30	2868	759	34	1469
Electric motor	V. E. Keegan	349,654	Sept. 21	1515	392	36	1347

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Electric motor	W. H. Knight	338,085	Mar. 16	1622	422	34	1230
Electric motor	O. P. Loomis and H. W. Cooley	337,777	Mar. 9	1197	311	34	1147
Electric motor	H. M. Paine	343,487	June 8	1061	265	35	1206
Electric motor	H. M. Paine	355,024	Dec. 28	1988	523	37	1397
Electric motor	E. F. Recordon	344,679	June 29	2694	699	35	1527
Electric motor	E. A. Sperry	353,987	Dec. 7	488	133	37	1095
Electric motor	G. H. Stout	338,622	Mar. 23	2356	620	34	1371
Electric motor	E. Thomson	335,547	Feb. 2	634	166	34	554
Electric motor	R. Vogler	350,025	Sept. 28	2015	527	36	1452
Electric motor	H. Walter	351,229	Oct. 19	1605	421	37	307
Electric motor	J. Weis	335,863	Feb. 9	1093	288	34	645
Electric motor and generator	W. Hansell	349,392	Sept. 21	1176	304	36	1279
Electric motor. Dynamo-	E. T. and D. Higham	349,716	Sept. 28	1695	419	36	1372
Electric motor or generator	F. E. Fisher	350,728	Oct. 12	888	238	37	169
Electric-motor regulator	O. B. Shallenberger	347,964	Aug. 24	2124	566	36	881
Electric-motor regulator	C. J. Van Depoele	347,903	Aug. 24	2027	536	36	863
Electric motor. Vibrating	A. L. Parcelle	345,720	July 20	1332	342, 343	36	251
Electric motors. Apparatus for transmitting power from	C. P. Ellieson	344,260	June 22	2126	543	35	1414
Electric motors. Device for transmitting power from	E. H. Johnson	335,285	Feb. 2	281	74	34	490
Electric motors. System for regulating and controlling	J. M. Pendleton	343,393	June 8	927	232	35	1182
Electric motors. System for regulating and controlling	J. M. Pendleton	343,394	June 8	931	232	35	1183
Electric pile	J. B. Neyraud	347,823	Aug. 24	1914	509	36	843
Electric regulator	E. A. Sperry	353,990	Dec 7	493	134	37	1096
Electric resistance. Artificial	H. P. and F. H. Brown	338,708	Mar. 30	2191	659	34	1401
Electric signal. Automatic	H. C. Nickolson	347,634	Aug. 17	1645	436	36	785
Electric signal. Individual	A. W. S. Davis	336,095	Feb. 16	1436	379	34	710
Electric signal. Individual	E. P. Warner	339,718	Apr. 13	915	225	35	167
Electric signal-recorder	A. J. Coffee	339,381	Apr. 6	380	93, 94	35	71
Electric signaling apparatus	W. J. Dudley	342,340	May 25	1901	503	35	884
Electric subway	R. L. Harris	344,962	July 6	223	57	36	41
Electric subway	J. M. Jagel	349,797	Sept. 28	1739	448	36	1393
Electric switch	A. Bernstein	343,266	June 8	715	178	35	1145
Electric switch	E. Thomson	339,714	Apr. 13	923	227	35	166
Electric switch-board	J. H. Wehrle	353,184	Nov. 23	2039	545	37	865
Electric therapeutic instrument	C. E. Baldwin	353,346	Nov. 30	2258	604	37	912
Electric time-detector	J. C. Wilson	351,681	Oct. 26	2291	593	37	439
Electric train-controlling system	F. J. McQueen	347,628	Aug. 17	1625	431	36	782
Electric welding	E. Thomson	347,142	Aug. 10	925	247	36	643
Electric welding. Apparatus for	E. Thomson	347,140	Aug. 10	921	246	36	642
Electric welding. Apparatus for	E. Thomson	347,141	Aug. 10	924	246, 247	36	643
Electric wires and instruments. Protector for	G. W. Mingle and W. T. Brown	352,342	Nov. 9	892	239	37	630
Electric wires. Junction-clamp for	L. B. Jones	350,828	Oct. 12	1035	276	37	196
Electric wires or cables. Composition for the manufacture of blocks for containing	J. W. Butler	352,445	Nov. 9	1018	.....	37	656
Electric wires. Safety device for	E. B. Temple	341,289	May 4	457	124	35	588
Electric wires. Underground conductor for	J. Grant	344,827	July 6	35	9	36	8
Electric wires. Underground conduit for	F. V. Greene	351,697	Oct. 26	2309	600	37	442
Electric wires. Underground conduit for	W. L. Robinson	346,688	Aug. 3	298	82	36	519
Electric wires. Underground conduit for	J. J. Schillinger	337,624	Mar. 9	1009	259	34	1115
Electric wires. Underground conduit for	F. Wheaton	346,250	July 27	2070	532	36	397
Electric wires. Underground tube for	H. G. Morehouse	352,771	Nov. 16	1444	389	37	744
Electrical apparatus. Connecting-clip for	M. M. M. Slattery	344,417	June 29	2348	603	35	1462
Electrical cable. Underground	J. Kruesi and J. Langton, Jr	334,708	Jan. 19	1716	457	34	331
Electrical cables. Machine for making	J. Kruesi and J. Langton, Jr	334,709	Jan. 19	1717	458	34	332
Electrical call	E. A. Reeder	346,314	July 27	2156	554	36	413
Electrical call or signaling apparatus	A. G. Holcombe	336,643	Feb. 23	2228	589	34	855
Electrical call system for hotels	J. C. McLaughlin	335,604	Feb. 9	727	194	34	578
Electrical circuits. Apparatus for automatically testing	G. F. Milliken	334,969	Jan. 26	2049	547	34	400
Electrical communicating system	A. G. Holcombe	343,374	June 8	896	225, 226	35	1178
Electrical communicating system for hotels	A. G. Holcombe	336,809	Feb. 23	2449	643	34	897
Electrical conductor	H. A. Clark	336,992	Mar. 2	145	39	34	952
Electrical conductor	J. R. Finney	346,990	Aug. 10	694	184	36	601
Electrical conductor	E. H. Johnson	354,320	Dec. 14	992	263	37	1193
Electrical conductor. Underground	F. B. Crocker	355,063	Dec. 28	2046	538	37	1407
Electrical conductors. Conduit for	E. Campbell	346,840	Aug. 3	480	133	36	555
Electrical conductors. Coupling device for	C. G. Perkins	349,809	Sept. 28	1758	454	36	1397
Electrical conductors. Coupling for	W. F. Smith	353,984	Dec. 7	485	132	37	1095
Electrical conductors. Housing for	A. T. Woodward	344,764	June 29	2805	726	35	1546
Electrical conductors. Machine for covering	E. D. McCracken	351,199	Oct. 19	1560	410	37	299
Electrical conductors. Manufacture of	H. R. Mason	334,450	Jan. 19	1354	367	34	265
Electrical conductors. Underground conduit for	G. S. Hull	343,458	June 8	1024	255	35	1200
Electrical conductors. Underground conduit for	C. G. Perkins	349,739	Sept. 28	1659	428, 429	36	1378
Electrical conduit	J. R. Burdick	342,280	May 18	1794	475	35	857
Electrical conduit. Underground	D. N. Hurlbut	340,046	Apr. 13	1339	341	35	249
Electrical conduit. Underground	B. Williams	354,290	Dec. 14	953	251, 252	37	1186
Electrical conduits. Flexible joint for underground	S. E. Hurlbut	352,754	Nov. 16	1424	384	37	740
Electrical connecting device	E. H. Johnson	342,751	May 25	2500	665	35	993
Electrical connection	G. D. Burton	341,128	May 4	215	65	35	545
Electrical connection and guard therefor	G. D. Burton	346,423	July 27	2309	595	36	441
Electrical coupler	G. D. Burton	343,515	June 8	1091	274	35	1212
Electrical currents. System of generating	C. J. Van Depoele	338,321	Mar. 23	1945	512	34	1300
Electrical cut-out	J. M. Fairchild	340,868	Apr. 27	2521	663, 664	35	470
Electrical distributer	R. H. Mather	354,606	Dec. 21	1406	372, 373	37	1276
Electrical distribution. Apparatus for	M. M. M. Slattery	354,258	Dec. 14	902	239	37	1177
Electrical distribution. Multiple series system of	A. J. Holt	340,717	Apr. 27	2317	610	35	433

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Electrical distribution. System of	H. M. Byllesby	345,212	July 6	564	144, 145	36	102
Electrical distribution. System of	T. A. Edison	339,279	Apr. 6	236	59	35	44
Electrical distribution. System of	T. A. Edison	343,017	June 1	328	84	35	1067
Electrical distribution. System of	J. W. Howell	342,748	May 25	2497	664	35	993
Electrical distribution. System of	J. W. Howell	352,691	Nov. 16	1347	364	37	724
Electrical distribution. System of	F. J. Sprague	335,045	Jan. 26	2159	574, 575	34	419
Electrical distribution. System of	G. Westinghouse, Jr.	342,552	May 25	2210	587	35	939
Electrical distribution. System of	S. S. Wheeler	335,048	Jan. 26	2164	575, 576	34	420
Electrical distribution. System of	S. S. Wheeler	335,099	Jan. 26	2237	594	34	434
Electrical indicator	J. W. Howell	339,058	Mar. 30	2999	793	34	1491
Electrical indicator	E. Weston	334,145	Jan. 12	904	248	34	176
Electrical indicator	E. Weston	340,399	Apr. 20	1865	479	35	347
Electrical indicator	C. Wirt	345,755	July 20	1377	358	36	260
Electrical instruments. Hinge-connection for	G. W. Wilson	352,596	Nov. 16	1209	328	37	700
Electrical machine. Frictional	A. L. Robbins	336,947	Mar. 2	87	23	34	942
Electrical meter	W. C. Patterson	333,770	Jan. 5	385	105	34	73
Electrical meter	W. L. Stevens	346,957	Aug. 10	654	175	36	594
Electrical purposes. Carbon for	E. Shaw	353,598	Nov. 30	2638	.....	37	984
Electrical push-button	S. Vanstone	341,293	May 4	463	125	35	589
Electrical resistance. Artificial	H. P. and F. H. Brown	347,766	Aug. 24	1825	486	36	825
Electrical signaling apparatus	T. A. Edison	340,708	Apr. 27	2304	606	35	430
Electrical signaling apparatus	H. Thau	335,852	Feb. 9	1079	285	34	642
Electrical subway	C. C. Gilman	338,518	Mar. 23	2218	582	34	1348
Electrical switch	S. Bergmann	341,723	May 11	1047	277, 278	35	711
Electrical switch	C. F. Brush	335,269	Feb. 2	260	68	34	487
Electrical switch	E. H. Johnson	339,298	Apr. 6	265	66	35	49
Electrical switch	R. G. Sweeney	346,515	Aug. 3	83	23	36	476
Electrical switch	E. G. Waters and R. G. Sweeny	346,183	July 27	1968	507	36	377
Electrical switch	E. Weston	340,401	Apr. 20	1867	479	35	348
Electrical synchronous movement	A. L. Parcelle	345,721	July 20	1325	344	36	251
Electrical testing	C. S. Bradley	353,915	Dec. 7	383	101	37	1077
Electrical ticket-exhibiting machine	H. J. Ennis	352,086	Nov. 2	517	138	37	556
Electrical train-brake	H. Hinckley	344,736	June 29	2769	717, 718	35	1539
Electrical translating devices. Safety-catch for	W. H. Knight	338,084	Mar. 16	1620	422	34	1514
Electrical wires. Coupling for	J. A. Lantz	349,397	Sept. 21	1182	306	36	1280
Electrical wires. Coupling for	J. A. Lantz	349,398	Sept. 21	1183	306	36	1280
Electricity by means of secondary batteries. Apparatus for the distribution of	E. Thomson	354,272	Dec. 14	925	244	37	1181
Electricity. Conductor of	E. G. Acheson	342,892	June 1	166	42	35	1036
Electricity for destroying living organisms in the bodies of slaughtered animals. Applying	C. S. Jones, W. W. Crooker, and F. Artós.	337,334	Mar. 2	608	159	34	1038
Electricity. Lighting railway and other signal lanterns by	J. E. H. Gordon	354,782	Dec. 21	1656	438	37	1323
Electricity on vehicles. Storing and utilizing	C. E. Buell	347,768	Aug. 24	1827	486, 487	36	826
Electro-dynamic motor	F. J. Sprague	335,781	Feb. 9	985	261	34	624
Electro-dynamic motor	F. J. Sprague	337,793	Mar. 9	1214	316	34	1149
Electro-dynamic motor	F. J. Sprague	337,794	Mar. 9	1216	316, 317	34	1150
Electro-dynamic motor	C. J. Van Depoele	347,902	Aug. 24	2025	536	36	862
Electro-magnetic motor	W. H. Darling	337,931	Mar. 16	1410	365, 366	34	1193
Electro-magnetic motor	V. E. Keegan	338,976	Mar. 30	2867	758	34	1469
Electro-magnetic motor	E. Thomson	345,334	July 13	740	187	36	140
Electro-magnetic and magneto-electric machine	R. Eickemeyer	351,904	Nov. 2	248	70	37	504
Electro-magnetic and magneto-electric machine	R. Eickemeyer	352,234	Nov. 9	749	201	37	603
Electro-magnetic motors. Governor for	C. F. Brush	343,886	June 15	1603	408	35	1313
Electro-magnetic poise-adjuster	C. W. Hastings	338,522	Mar. 23	2222	583	34	1349
Electro-magnetic reciprocating engine	C. J. Van Depoele	337,897	Mar. 16	1362	354	34	1174
Electro-magnetic reciprocating engine	C. J. Van Depoele	338,375	Mar. 23	2026	532	34	1313
Electro-magnetic regulator	T. E. Adams	351,351	Oct. 26	1775	467	37	343
Electro-magnetic transmitter	J. T. Williams	342,666	May 25	2365	625	35	968
Electro-magnetic valve	M. W. Grovesteen	347,707	Aug. 17	1745	465	36	803
Electro-medical battery	S. France	333,739	Jan. 5	439	92	34	63
Electrode for electric batteries	S. L. Trippe	348,482	Aug. 31	2854	768	36	1026
Electrode. Secondary-battery	E. M. Gardner	336,102	Feb. 16	1447	381	34	712
Electrodes. Composition for secondary-battery	E. M. Gardner	336,101	Feb. 16	1446	.....	34	712
Electrodes for secondary batteries. Composition for	S. L. Trippe	344,882	July 6	128	31, 32	36	23
Electrodes for secondary batteries. Construction of	A. Khotinsky	345,511	July 13	995	252	36	185
Electrolier	C. G. Perkins	349,516	Sept. 21	1344	349	36	1312
Electrolier. Extension	J. T. Robb	337,199	Mar. 2	422	110	34	1004
Electroplated fabric	R. F. Nenninger	344,397	June 29	2320	598	35	1457
Electroplating-machines. Automatic circuit-controller for	C. J. Van Depoele	353,334	Nov. 30	2243	601	37	910
Electro-therapeutic appliance	J. Charles	355,059	Dec. 28	2042	537	37	1406
Electrotype-molds. Machine for washing	E. H. Hanson	335,920	Feb. 9	1183	315	34	659
Electrotype-registering machine	A. O. Russell	347,256	Aug. 10	1075	288	36	671
Electrotyping. Apparatus for	W. J. Ladd	339,431	Apr. 6	453	110	35	84
Elevating liquids. Apparatus for	E. Körting	339,663	Apr. 13	833	205	35	153
Elevator: *See* Corn-sheller elevator. Electric elevator. Grain-elevator. Grain-binder elevator. Gravel-elevator. Harvester-elevator. Hay-elevator. Hod-elevator. Hydraulic elevator. Ice-elevator. Passenger-elevator. Patient's elevator. Tobacco-elevator. Wagon-box elevator. Water-elevator.							
Elevator	H. Albert	333,713	Jan. 5	305	83, 84	34	57

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Elevator	H. Albert	355,114	Dec. 28	2119	557, 558	37	1422
Elevator	P. Baker	349,074	Sept. 14	739	188	36	1186
Elevator	M. W. Clark	341,639	May 11	930	246, 247	35	687
Elevator	T. Crispin	354,854	Dec. 21	1744	462	37	1340
Elevator	D. Frisbie and E. M. Lockwood	349,706	Sept. 28	1396	412	36	1368
Elevator	W. Greb	355,162	Dec. 28	2192	578, 579	37	1436
Elevator	W. Hubbard	352,871	Nov. 16	1578	426	37	769
Elevator	A. J. McAdam	347,433	Aug. 17	1330	354, 355	36	726
Elevator	J. McQuaide	336,581	Feb. 23	2135	560	34	839
Elevator	F. B. Perkins	349,175	Sept. 14	875	224	36	1212
Elevator	F. H. Prince	335,239	Feb. 2	220	58	34	479
Elevator	C. K. Rogers	349,177	Sept. 14	878	225	36	1212
Elevator	R. Smith	343,404	June 8	943	236	35	1186
Elevator	U. P. Smith	344,687	June 29	2703	702	35	1529
Elevator	W. Stevens	348,597	Sept. 7	93	27	36	1064
Elevator	C. G. and L. Tiefel	323,701	Jan. 5	279	76, 77	34	53
Elevator	A. F. Ward and G. Mead	355,285	Dec. 28	2269	623	37	1472
Elevator	J. H. Wisehcart	335,408	Feb. 2	451	117	34	522
Elevator and carrier	M. W. Chamberlain	344,941	July 6	198	51	36	37
Elevator and carrier	C. J. Knighton	348,329	Aug. 31	2636	711	36	984
Elevator attachment	L. Senior	334,201	Jan. 12	1008	268	34	195
Elevator-boot	C. Esplin	342,955	June 1	256	65, 66	35	1052
Elevator-bucket	H. B. Haigh	336,916	Mar. 2	50	13	34	936
Elevator-bucket	W. Mild	340,889	Apr. 27	2547	671	35	474
Elevator-buckets. Making	C. C. Scaife	349,754	Sept. 28	1680	433, 434	36	1382
Elevator-cars. Bell-alarm for	J. W. Metz	350,146	Oct. 5	72	21	37	16
Elevator-cars. Fan attachment for	F. Sasse	350,947	Oct. 19	1193	317	37	231
Elevator-cars. Safety attachment for	C. R. Whittier	354,366	Dec. 14	1053	281	37	1206
Elevator cup or bucket	J. L. Seavey and J. N. Goodall	347,963	Aug. 24	2123	566	36	880
Elevator-gate	V. E. Paulin	354,950	Dec. 28	1943	513	37	1389
Elevator-gates. Operating	D. Tufts	343,681	June 15	1327	332, 333	35	1261
Elevator-guard	P. H. McWilliams	355,191	Dec. 28	2231	589	37	1445
Elevator-indicator	E. Marshall	349,729	Sept. 28	1648	425	36	1376
Elevator safety attachment	H. R. Ferris	337,317	Mar. 2	589	155	34	1035
Elevator safety attachment	T. M. Hunter	337,768	Mar. 9	1183	308	34	1144
Elevator safety attachment	L. Senior	339,484	Apr. 6	535	130	35	99
Elevator safety attachment	C. A. Westberg	339,035	Mar. 30	2968	785	34	1486
Elevator safety attachment. Hydraulic	A. Murphy	337,781	Mar. 9	1202	312	34	1147
Elevator safety-brake	T. W. Eaton, F. H. Prince, and J. H. Livesey.	347,778	Aug. 24	1845	491, 492	36	829
Elevator safety device	P. Moran	334,083	Jan. 12	816	224	34	159
Elevator safety device	A. O. Wuensche	337,355	Mar. 2	632	166	34	1043
Elevator safety-stop	G. C. Hallbaub	337,398	Mar. 9	694	181	34	1060
Elevator-shaft	E. L. Brown	335,678	Feb. 9	825	220	34	595
Elevator-spout	W. L. Mock	346,821	Aug. 3	450	124	36	548
Elevator-valves. Controlling	R. C. Smith	334,907	Jan. 26	1968	523, 524	34	386
Elevators, &c. Register for	D. Segur	336,756	Feb. 23	2381	623	34	885
Elevators. Automatic stop for	O. Pupikofer	348,687	Sept. 7	216	57	36	1086
Elevators. Control-gear for	F. M. Clark and F. R. Low	344,942	July 6	200	51	36	37
Elevators. Hand device for the shipper or hand-rope of	E. E. Worden and G. A. Grover	344,557	June 29	2543	657	35	1497
Elevators. Operating	G. H. Reynolds	348,056	Aug. 24	2243	599, 600	36	903
Elevators. Safety air-clutch for	H. W. Bracken	349,299	Sept. 21	1033	264	36	1252
Elevators. Valve for hydraulic	R. C. Smith	339,816	Apr. 13	1041	258	35	190
Elevators. Valve-operating device for	C. W. Baldwin	352,797	Nov. 16	1485	406	37	751
Ellipsograph	R. W. Rummell	333,972	Jan. 5	651	178	34	122
Elliptic spring	J. O. Altick	348,710	Sept. 7	244	65	36	1092
Elliptic spring	N. E. Spaulding	352,014	Nov. 2	414	112	37	535
Elliptic springs. Machine for setting bands on	E. Spaulding	334,397	Jan. 12	1277	344	34	244
Elliptical shapes. Machine for cutting	M. Helbling	342,357	May 25	1934	510, 511	35	890
Embossed fabric for upholstery, &c.	W. Sochefsky	334,300	Jan. 12	1155	309	34	222
Embossing-cutter. Indented	W. A. Compton	335,897	Feb. 9	1155	306	34	655
Embossing plate or die	J. H. Ferris and C. M. Kipp	350,876	Oct. 12	1097	293	37	207
Embossing-rollers. Making counterpart	M. Conrath	350,481	Oct. 12	578	.....	37	107
Embossing-tool. Recessed	W. A. Compton	335,898	Feb. 9	1156	307	34	655
Embroidering	G. Ehrenzeller-Hoegger	345,127	July 6	453	117	36	82
Embroidering-machine	E. Cornely	338,488	Mar. 23	2180	570	34	1342
Embroidering-machine	E. Cornely	345,886	July 20	1563	402, 403	36	292
Embroidering-machine	C. Güttinger	350,053	Sept. 28	2077	538, 539, 540	36	1460
Embroidering-machine	J. Irish	348,562	Sept. 7	27	8, 9, 10, 11, 12	36	1053
Embroidering-machine	H. E. Schmitz and E. Aldom	337,088	Mar. 2	272	72, 73	34	977
Embroidering-machine	F. Schuelle	335,094	Jan. 26	2231	592	34	433
Embroidery fabric. Woven	J. G. Kuhn	336,861	Feb. 23	2515	663	34	910
Embroidery-frame	M. Bacon	349,473	Sept. 21	1286	334	36	1300
Embroidery-frame	J. Levinson	335,762	Feb. 9	956	253	34	618
Embroidery frame and stand. Adjustable	E. B. Squire	351,667	Oct. 26	2271	588	37	435
Embroidery frame and stand. Combined	J. C. States	347,743	Aug. 17	1789	477	36	811

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Embroidery-frame, easel, work-table, and desk. Combined	L. Hopkinson	345,509	July 13	993	251	36	184
Embroidery-holder	J. B. West	340,265	Apr. 20	1681	428	35	312
Emery-wheel and hangings therefor	E. R. Hyde	350,593	Oct. 12	697	188	37	133
Emery-wheel for wet grinding	F., R., and O. Kampfe	351,180	Oct. 19	1547	405	37	297
End-gate	D. S. Morrow	343,384	June 8	915	229	35	1180
End-gate	W. A. Phares	354,341	Dec. 14	1025	273	37	1200
End-gate and scoop-board. Combined	G. A. Ramschelbach	339,692	Apr. 13	885	217	35	162
End-gate and shoveling-board for wagons	L. P. Damon	346,534	Aug. 3	108	29	36	481
End-gate fastener	J. M. Reams	339,470	Apr. 6	513	124	35	95
End-gate fastening	J. W. Spafford	349,537	Sept. 21	1375	356	36	1317
End-gate for wagons	H. W. Gary	350,734	Oct. 12	894	239	37	170
End-gate lock. Wagon	D. D. Whitney	349,965	Sept. 28	1961	507	36	1437
End-gate. Wagon	W. Beckwith	354,088	Dec. 14	633	172	37	1130
End-gate. Wagon	H. S. Crabtree	335,685	Feb. 9	836	232	34	597
End-gate. Wagon	A. H. Noyes and E. S. Gardner	338,545	Mar. 23	2248	590	34	1353
End-gate. Wagon	L. H. Pruner	336,492	Feb. 16	2013	528	34	812
Endless carrier	P. Grater	349,346	Sept. 21	1089	279	36	1263
Engine: *See* Air-engine. Air or gas engine. Atmospheric engine. Blowing-engine. Caloric-engine. Carding-engine. Chemical engine. Compound engine. Cylinder-engine. Dental engine. Direct-acting engine. Dividing-engine. Duplex steam-engine. Electro-magnetic reciprocating engine. Fire-engine. Gas-engine. Gas-motor engine. Hot-air engine. Hydraulic engine. Hydraulic elevator-engine. Hydrocarbon-engine. Hydrocarbon-vapor engine. Locomotive-engine. Motor-engine. Motive-power engine. Multiple-cylinder engine. Oscillating engine. Paper-pulp engine. Petroleum and gas engine. Portable or traction engine. Pulp-beating engine. Pumping-engine. Road-engine. Rose-engine. Rotary engine. Rotary steam-engine. Single-acting engine. Steam-engine. Traction-engine. Vapor-engine. Vibrating-cylinder engine. Water and other engine. Wind-engine.							
Engine	A. Bown	339,136	Apr. 6	25	8	35	7
Engine and method of operating the same	J. H. Campbell	337,371	Mar. 9	655	173	34	1054
Engine and pump. Rotary	C. H. Cary	346,721	Aug. 3	341	93	36	527
Engine cross-head	G. R. Cullingworth	355,003	Dec. 28	1959	516	37	1392
Engine-counter	F. W. Child	351,164	Oct. 19	1517	397	37	291
Engine-cylinder lubricator	M. W. Hall	334,860	Jan. 26	1912	509	34	376
Engine for running sewing-machines	L. W. Baldwin	333,719	Jan. 5	311	85	34	58
Engine-frame jig	L. Skinner	349,757	Sept. 28	1684	435	36	1383
Engine-reversing gear	R. Rutherford and T. Moore	352,489	Nov. 9	1067	287	37	666
Engine-reversing mechanism	L. C. Forwood	353,550	Dec. 7	280	74	37	1058
Engine valve-gear	J. Grime	351,912	Nov. 2	269	73, 74	37	506
Engines. Apparatus for stopping	J. Fothergill, W. and I. Briggs, Jr.	354,468	Dec. 14	1185	317, 318	37	1230
Engines. Automatic stop for	B. J. Roberts	343,397	June 8	935	234	35	1124
Engines. Cut-off device for	J. H. Eickershoff	339,382	Apr. 6	241	60	35	45
Engines. Exhaust-relief and continuous blast for	J. C. Carroll	353,018	Nov. 23	1790	481	37	817
Engines. Jointed link for	E. Doe	349,485	Sept. 21	1302	339	36	1303
Engines. Link-motion for	A. D. Bryce-Douglas	342,728	May 25	2467	653, 654	35	986
Engines. Link-motion for	A. D. Bryce-Douglas	345,617	July 13	1162	298	36	215
Engines. Operating the valves of hydraulic pumping-	J. Moore	352,482	Nov. 9	1060	285	37	664
Engines. Reverse-gear for	F. M. Rites	343,494	June 8	1070	267	35	1208
Engines. Reversing device for	F. Uffelmann	344,225	June 22	2081	532	35	1407
Engines. Safety device for	J. Rothchild	354,938	Dec. 28	1877	495	37	1377
Engines. Utilizing aqua-ammonia as a motive power in	J. H. Campbell	337,372	Mar. 9	659	173	34	1054
Engines. Utilizing aqua-ammonia as a motive power in	J. H. Campbell	337,374	Mar. 9	664	174	34	1055
Engines. Wheel for road-	T. L. Aveling	342,314	May 25	1866	495	35	879
Engraved plate	J. R. Hill	335,814	Feb. 9	1028	272	34	632
Engraver's turn-table or holder	J. H. Dickson	340,429	Apr. 20	1898	488	35	373
Engravers' use. Block for	E. S. Stehman	348,299	Aug. 31	2601	700	36	977
Engraving-machine	M. Bock	334,507	Jan. 19	1440	387, 388	34	280
Ensilage-cutting machine	J. M. Bailey, S. Rich, and J. Garfield	341,309	May 4	483	131	35	592
Ensilage. Storing	M. Amos and J. Hunt	346,699	Aug. 3	313	86	36	522
Entry and blotter sheet. Combined	G. F. Barden	346,703	Aug. 3	318	87	36	523
Envelope	C. Gudath	354,089	Dec. 7	621	170	37	1120
Envelope	F. R. White	341,297	May 4	468	126	35	590
Envelope and letter-sheet. Combined	F. P. Hofmann	338,746	Mar. 30	2552	674	34	1412
Envelope-blank-feeding mechanism	F. H. Richards	340,245	Apr. 20	1654	419, 420	35	307
Envelope-blanks. Mechanism for creasing	F. H. Richards	340,246	Apr. 20	1656	420, 421	35	308
Envelope-blanks. Mechanism for creasing	F. H. Richards	343,854	June 15	1563	396	35	1305
Envelope-blanks. Mechanism for creasing	F. H. Richards	351,284	Oct. 19	1677	440	37	319
Envelope-counting machinery	A. A. Rheutan	335,245	Feb. 2	227	60	34	481
Envelope-counting machinery	A. A. Rheutan	349,745	Sept. 28	1669	430, 431	36	1380

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Envelope-counting machinery	A. A. Rheutan	350,504	Oct. 12	571	158	37	111
Envelope counting, packing, and banding machine	F. H. Richards	354,738	Dec. 21	1595	422, 423, 424	37	1311
Envelope. Document	E. J. Trum	349,188	Sept. 14	894	230	36	1215
Envelope-machine	J. Ball	344,073	June 22	1868	480, 481	35	1368
Envelope-machine	F. H. Richards	340,244	Apr. 20	1649	418, 419	35	307
Envelope-machine	F. H. Richards	340,250	Apr. 20	1661	422, 423	35	309
Envelope-machine	F. H. Richards	343,855	June 15	1564	396, 397	35	1305
Envelope-machine	F. H. Richards	343,856	June 15	1566	397	35	1305
Envelope-machine presser	A. A. Rheutan	335,244	Feb. 2	226	59	34	481
Envelope-machines. Drying attachment for	E. H. Woodford	336,976	Mar. 2	124	33	34	948
Envelope-machines. Endless apron for	F. H. Richards	353,816	Dec. 7	232	63	37	1049
Envelope-machines. Picker for	F. H. Richards	340,249	Apr. 20	1660	422	35	309
Envelope, &c. Safety	J. E. Krucker	354,066	Dec. 7	692	165	37	1116
Envelope sealer and opener	J. W. Turner	354,954	Dec. 28	1898	500	37	1381
Envelope-sealing apparatus	B. F. Brown	342,821	June 1	64	16	35	1018
Envelope-sheet. Letter	T. W. Terry	336,446	Feb. 16	1956	512	34	802
Envelo es. Device for opening	J. H. Paige	337,985	Mar. 16	1494	388	34	1207
Envelopes, &c. Holder for	P. Ramser	340,355	Apr. 20	1815	465	35	338
Envelopes. Machine for counting and packing	A. A. Rheutan	350,505	Oct. 12	572	158, 159	37	111
Envelopes. Machine for counting, packing, and banding	F. H. Richards	340,243	Apr. 20	1644	416, 417, 418	35	306
Equalizing-ventilator	G. A. Bell	348 102	Aug. 24	2312	620	36	916
Eraser	O. Cate	339,856	Apr. 13	1098	273	35	201
Eraser	C. La Dow	337,505	Mar. 9	864	218	34	1088
Eraser	J. Pusey	338,299	Mar. 23	1913	504	34	1294
Eraser and knife. Combined	T. Holdsworth	336,112	Feb. 16	1458	384	34	714
Eraser and pencil-holder. Rubber	J. Cain	343,007	June 1	315	81	35	1064
Erasers. Machine for cleaning blackboard	J. Travis	353,387	Nov. 30	2320	620	37	924
Escape-levers. Machine for securing guard-pins in	G. E. Hunter	345,636	July 13	1196	309, 310	36	221
Ethers. Manufacture of resin-acid	E. Schaal	335,485	Feb. 2	552	.....	34	540
Evaporating and distilling apparatus. Vacuum	H. T. Yaryan	355,289	Dec. 28	2373	626	37	1473
Evaporating and distilling apparatus. Vacuum	H. T. Yaryan	355,290	Dec. 28	2376	627	37	1473
Evaporating apparatus	A. A. Denton	339,389	Apr. 6	393	96	35	73
Evaporating apparatus	G. A. Porter	351,651	Oct. 26	2250	582, 583	37	430
Evaporating apparatus for saccharine and other juices.	J. Guardiola	341,843	May 11	1204	322, 323	35	741
Evaporating apparatus. Vacuum	N. B. Rice	351,795	Nov. 2	91	25	37	475
Evaporating liquid by air. Apparatus for	A. A. Denton	339,388	Apr. 6	389	96	35	73
Evaporating liquids. Apparatus for	S. M. Lillie	344,586	June 29	2573	666	35	1504
Evaporating liquids by air. Apparatus for	A. A. Denton	353,291	Nov. 30	2184	585	37	900
Evaporating liquids by air. Apparatus for	A. A. Denton	353,292	Nov. 30	2186	585	37	900
Evaporating liquids by air. Apparatus for	A. A. Denton	353,293	Nov. 30	2188	585, 586	37	900
Evaporating-pan	H. W. Hescock	335,583	Feb. 9	694	184	34	572
Evaporating-pan for salt, &c.	G. H. Smith	350,999	Oct. 19	1301	341	37	251
Evaporating sugar solutions. Process of and apparatus for	S. M. Lillie	341,669	May 11	973	258	35	695
Evaporator: *See* Fruit-evaporator.							
Evaporator	N. B. Rice	351,796	Nov. 2	93	26	37	475
Evaporator and air-moistener	G. Russell	341,817	May 11	1166	311, 312	35	734
Evaporator-cover	O. W. Davis and L. A. Lyon	353,444	Nov. 30	2405	643	37	941
Evaporators. Apparatus for automatically feeding liquids to	M. C. Barden	337,227	Mar. 2	457	119, 120	34	1011
Evener. Four-horse	A. T. Masten	346,932	Aug. 10	623	167	36	588
Excavating apparatus	J. Thomson and R. W. Mullins	338,803	May. 30	2628	692	34	1425
Excavating apparatus. Odorless	P. F. Dewey	336,902	Mar. 2	29	8	34	932
Excavating-machine	A. Boschke	348,376	Aug. 31	2704	726	36	997
Excavator	C. Howard	333,949	Jan. 5	619	169	34	116
Ex avator	R. R. Osgood	342,454	May 25	2068	545	35	913
Excavator	S. F. Welch	334,497	Jan. 19	1425	383, 384	34	278
Excavator. Inclined-wheel	S. M. Lockwood	335,230	Feb. 2	211	54	34	477
Excavator. Inclined-wheel earth-	S. M. Lockwood	335,229	Feb. 2	210	54	34	477
Excavator. Odorless	W. H. Fish and E. E. Dean	345,425	July 13	877	218	36	163
Excavator. Suction-	W. H. Beard	349,381	Sept. 21	1161	301	36	1276
Excelsior and material for wood pulp for paper-making. Machine for making	J. E. Goodwin	350,358	Oct. 5	343	98, 99	37	70
Excelsior and material for wood pulp. Manufacturing from wood	J. E. Goodwin	349,992	Sept. 28	2000	516, 517	36	1444
Exercising apparatus	A. P. Largiader	339,668	Apr. 13	839	207	35	155
Exercising apparatus. Electrical	W. T. McGinnis	341,593	May 11	866	231	35	674
Exercising-chair	J. M. W. Kitchen	342,020	May 18	1438	385, 386	35	791
Exercising-machine	E. N. Bowen	334,635	Jan. 19	1616	430, 431	34	313
Exercising-machine	L. W. Conkling	351,311	Oct. 19	1718	451	37	327
Exercising-machine	D. L. Dowd	345,286	July 13	679	171	36	128
Exercising-machine	B. Farley	337,942	Mar. 16	1431	371	34	1196
Exercising-machine	G. Goldie	339,638	Apr. 13	892	197	35	147
Exercising-machine	S. N. Goodman	341,231	May 4	369	101, 102	35	573
Exercising-machine	J. M. Keating	350,932	Oct. 19	1170	311	37	227

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Exercising-machine	H. W. Libbey	335,597	Feb. 9	718	191	34	576
Exercising-machine	J. D. O'Brien	345,856	July 20	1520	393	36	284
Exercising-machine	J. A. Smith	353,069	Nov. 23	1900	511	37	838
Exercising-machine and register therefor	J. P. Nichols	346,675	Aug. 3	282	78	36	516
Exhibiting device	J. P. Wilson	343,882	June 15	1595	406	35	1311
Exhibiting devices. Electrical attachment for	W. T. Smith	339,706	Apr. 13	901	221	35	165
Exhibitor. Revolving	W. F. Miller	352,707	Nov. 16	1373	371	37	730
Expansible bolt	H. F. Courtney	352,326	Nov. 9	740	198	37	602
Expansion-joint	T. W. Duffy	350,422	Oct. 5	422	121	37	83
Explosive compound	M. Bielefeldt	340,276	Apr. 20	1676	.....	35	315
Explosive compound	M. F. Lindsley	333 872	Jan. 5	514	.....	34	96
Explosive compound	E. Du Pont	352,611	Nov. 16	1230	.....	37	703
Explosive compound	C. W. A. Začek	335,006	Jan. 26	2101	.....	34	410
Explosive compounds. Making	M. F. Lindsley	341,155	May 4	253	.....	35	551
Explosives. Composition for neutralizing fumes of	T. Price	354,345	Dec. 14	1029	274	37	1201
Extension-handle	J. A. Ackley	349,917	Sept. 24	1892	489	36	1425
Extension-key	J. H. Shaw	337,203	Mar. 2	426	111	34	1005
Extension-screen. Adjustable	T. S. Peck	337,192	Mar. 2	415	108	34	1003
Extension-table	H. F. Burmester	333,501	Jan. 5	7	3	34	4
Extension-table	H. F. Burmester	334,103	Jan. 12	847	232, 233	34	164
Extension-table	H. F. Burmester	334,104	Jan. 12	849	233, 234	33	165
Extension-table	G. Erber	346,903	Aug. 10	585	156	36	581
Extension-table	F. Goldbach	343,307	June 8	778	195	35	1156
Extension-table	T. B. Hennessy	335,453	Feb. 2	507	132	34	532
Extension-table	S. R. Moore	353,574	Nov. 30	2597	693	37	977
Extension-table	G. Schmitt	340,368	Apr. 20	1830	469	35	341
Extension-table, &c	S. Leschziner	341,585	May 11	859	228, 229	35	672
Extension-table. Revolving	D. and W. H. H. Fauber	351,101	Oct. 19	1433	376	37	274
Extract of cod-livers. Process of and apparatus for manufacturing concentrated	J. W. Stairs and J. Craig	353,090	Nov. 23	1901	511	37	838
Extracts. Apparatus for making	J. Merz	339,201	Apr. 6	123	33	35	24
Extracts from fish. Making	C. A. Sahlström	353,822	Dec. 7	240	.....	37	1051
Extractor: *See* Cartridge-extractor. Centrifugal extractor. Cork-extractor. Honey-extractor. Nail-extractor. Revolver-extractor. Stump-extractor.							
Eye-bars. Apparatus for rolling	C. L. Strobel	338,623	Mar. 23	2357	620, 621	34	1371
Eye-bars. Machine for rolling	H. Aiken	349,419	Sept. 21	1210	314, 315	36	1285
Eye-bars. Machine for upsetting	W. Cooke and D. Catlough	345,573	July 13	1107	283	36	205
Eye-bars. Making steel	R. W. Smith	339,492	Apr. 6	545	132	35	101
Eye-bars. Manufacture of	H. C. Staar	337,881	Mar. 16	1341	347	34	1180
Eyeglass-case	P. Closs	339,367	Apr. 6	219	55	35	41
Eyeglass-case. Metallic	H. G. Chase	353,203	Nov. 23	2067	552	37	871
Eyeglass-frame	J. H. Gilbert	352,462	Nov. 9	1041	280	37	661
Eyeglass-frame	G. Johnston	348,018	Aug. 24	2190	583	36	893
Eyeglass-frame	H. E. Kirstein	336,722	Feb. 23	2339	613	34	877
Eyeglass-frame	G. W. Wells	343,876	June 15	1589	404	35	1310
Eyeglass-holder	S. F. Merritt	346 305	July 27	2139	551	36	410
Eyeglass nose-guard	W. H. Eccleston	333,843	Jan. 5	475	129	34	88
Eyeglass nose-guard	W. Freeman	335,277	Feb. 2	269	71	34	489
Eyeglass-suspender	F. C. Bowen	339 370	Apr. 6	369	89	35	69
Eyeglasses	L. Bitzer, Jr	344 618	June 29	2618	678	35	1513
Eyeglasses	W. Bowker, E. M. Cole, and A. L. Smith	346,713	Aug. 3	333	91	36	526
Eyeglasses	D. V. Brown	348,449	Aug. 31	2809	755	36	1017
Eyeglasses	D. V. Brown	351,623	Oct. 26	2209	571	37	422
Eyeglasses	J. Curtin	333,928	Jan. 5	592	162	34	111
Eyeglasses	G. W. Hassellund	354,317	Dec. 14	987	262	37	1193
Eyeglasses	H. C. Sheppard	340,627	Apr. 27	2189	576	35	412
Eyeglasses	R. Straubel	349,413	Sept. 21	1201	311	36	1284
Eyeglasses. Nose-piece for	C. C. Parker	348,992	Sept. 14	618	163	36	1166
Eyeglasses. Spring and nose-piece for	G. W. Hassellund	346,654	Aug. 3	258	71	36	511
Eyeleting apparatus	J. S. Shannon	344,996	July 6	288	72, 73	36	52
Eyeleting-machine	J. S. Shannon	344 997	July 6	292	73	36	52
Fabric: *See* Anti-insect fabric. Decorated fabric. Elastic fabric. Electroplated fabric. Embroidery fabric. Filtering fabric. Knit fabric. Knitted fabric. Metal fabric. Ornamental fabric. Roofing fabric. Vulcanized fabric. Woven fabric.							
Fabric for window-shades, &c. Improving the finish and durability of	V. G. Bloede	347,315	Aug. 17	1168	.....	36	607
Fabric. Machine for waving strips of	G. and J. H. Taylor	342,479	May 25	2102	555, 556	35	920
Fabric or material for interior decorations, &c. Metal-faced	T. and J. Millot	347,497	Aug. 17	1429	380	36	744
Fabric-trimmer	J. W. Dewees	355,148	Dec. 28	2169	572	37	1432
Fabric-turfing implement	J. F. Blake	342,569	May 25	2230	592	35	943
Fabric-turfing implement	D. M. Chamberland	351,963	Nov. 2	339	94	37	321
Fabric-turfing implement	N. W. Crandall	348,724	Sept. 7	259	69	36	1095
Fabric-turfing implement	J. J. Deal	347,163	Aug. 10	953	255	36	649
Fabric-turfing implement	G. W. Griffin	339,642	Apr. 13	807	199	35	148
Fabric-turfing implement	M. A. Raffer	337,196	Mar. 2	419	109	34	1003
Fabric-turfing implement	J. C. Rorick	340,895	Apr. 27	2554	673	35	476
Fabric-turfing implement	J. W. Weddel	334,915	Jan. 26	1980	527, 528	34	388

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr's	Official Gazette. Vol.	Official Gazette. Page.
Fabric-turfing machine	M. F. Connett, Jr	337,306	Mar. 2	573	151	34	1032
Fabrics. Apparatus for drying and oxidizing woven.	C. R. Preibisch	341,769	May 11	1102	292, 293	35	721
Fabrics. Apparatus for renovating	S. L. Salomon	342,541	May 25	2197	582	35	936
Fabrics. Machine for dressing cut-pile	J. Worrall	341,587	May 11	1524	397	35	725
Fabrics. Machine for measuring and winding	C. H. Lyon	352,478	Nov 9	1056	284	37	663
Fabrics. Machine for pressing	G. W. Miller	352,253	Nov. 9	771	206	37	607
Fabrics. Machine for singeing	J. Ryle	334,474	Jan. 19	1396	377	34	273
Fabrics. Machinery for manufacturing felted and napped	J. Broadhead	355,130	Dec. 28	2146	565	37	1427
Fabrics. Making textile	E. Maertens	341,927	May 18	1316	.....	35	769
Fabrics. Manufacturing woven	A. Mitchell	346,673	Aug. 3	280	.....	36	515
Fabrics or yarns. Apparatus for steaming	J. Cochrane, Jr	348,616	Sept. 7	115	33	36	1068
Fabrics. Process of and apparatus for coating	E. G. Sparks	349,463	Sept. 21	1273	330, 331	36	1297
Fabrics. Spreader for spreading and stretching	I. E. Palmer	337,987	Mar. 16	1495	388	34	1207
Face-protector	A. L. Britton	351,248	Oct. 19	1630	428	37	311
Fan	I. A. Allion	342,555	May 25	2213	588	35	939
Fan	L. Biehl	350,614	Oct. 12	726	197	37	140
Fan	D. Dillon	338,930	Mar. 30	2817	743	34	1461
Fan	P. Murray, Jr	344,980	July 6	258	65	36	46
Fan	S. Scheuer	338,881	Mar. 30	2737	721	34	1445
Fan	S. Scheuer	340,622	Apr. 27	2184	575	35	411
Fan	S. Scheuer	340,623	Apr. 27	2185	575	35	411
Fan and operating machinery for same. Portable	A. W. McComas and H. A. Fitzhugh	337,848	Mar. 16	1298	337	34	1172
Fan apparatus. Rotary	J. S., T. A., and E. R. Walker	353,994	Dec. 7	499	135	37	1097
Fan attachment	P. Murray, Jr	336,866	Feb. 23	2523	665	34	911
Fan attachment for rocking furniture	A. W. McComas and H. A. Fitzhugh	336,128	Feb. 16	1476	390	34	718
Fan. Automatic	J. M. Johns	337,587	Mar. 9	967	248	34	1106
Fan. Automatic	P. Murray, Jr	334,717	Jan. 19	1729	461	34	334
Fan. Automatic	J. M. and W. A. Peay and J. H. Helsley	339,011	Mar. 30	2933	777	34	1480
Fan. Automatic	D. W. Porter	347,255	Aug. 10	1074	288	36	671
Fan. Automatic	J. W. Rykard	334,053	Jan. 12	774	211, 212	34	152
Fan. Automatic	W. M. Smith and J. Caldwell	338,311	Mar. 23	1928	507	34	1297
Fan. Exhaust-	G. Campbell	347,327	Aug. 10	1038	277	36	664
Fan. Exhaust-	W. G. Sears	353,467	Nov. 30	2442	652	37	948
Fan for furniture. Automatic	H. M. Bien	335,883	Feb. 9	1133	298	34	650
Fan. Revolving	H. Menke, Jr	337,600	Mar. 9	981	251	34	1109
Fan. Rotary	E. Anthony	339,038	Mar. 30	2972	486	34	1486
Fan. Rotary	C. Barnes	339,837	Apr. 13	1074	267	35	197
Fan. Rotary	J. Carr	339,853	Apr. 13	1094	272	35	201
Fan. Rotary	E. H. Johnson	354,063	Dec. 7	708	164	37	1115
Fan. Rotary	P. Murray, Jr	347,952	Aug. 24	2110	562	36	878
Fan. Rotary	P. Murray, Jr	348,683	Sept. 7	211	56	36	1085
Fan. Rotary	P. Murray, Jr	349,855	Sept. 28	1821	470	36	1410
Fan. Rotary ventilating	W. D. Smith	339,030	Mar. 30	2963	784	34	1485
Fan. Summer	G. H. Aylworth	334,684	Jan. 19	1684	450	34	325
Fan. Toilet-	J. Silbernik	335,318	Feb. 2	324	85	34	499
Fanning-mill	G. and J. W. Gray	347,706	Aug. 17	1744	465	36	803
Fanning-mill	J. A. Ingram	351,511	Oct. 26	2043	530	37	392
Fanning-mill	A. Mckelburg	334,183	Jan. 12	965	261, 262	34	186
Fanning-mill	E. F. Reynolds	349,235	Sept. 14	961	245	36	1228
Fanning-mill	J. W. and G. R. Shaw	333,683	Jan. 5	250	68	34	49
Fanning-mill hopper	C. H. Prentiss and P. Walker	333,546	Jan. 5	66	19	34	15
Fanning-mills, &c. Air-blast regulator for	R. W. Kirkpatrick	344,912	July 6	164	42	36	30
Fare-box	W. T. Dryden	344,729	June 29	2759	714, 715	35	1538
Fare-box	J. W. Greer	351,911	Nov. 2	266	73	37	506
Fare-box	W. G. Price	344,287	June 22	2168	555, 556	35	1422
Fare-box	J. R. Wherry and H. H. Rottaken	351,011	Oct. 19	1316	345	37	253
Fare-box and lantern. Combined	H. D. Clark	335,340	Feb. 2	359	93	34	506
Fare-box. Portable	S. M. Friede and F. D. Johnston	343,120	June 1	498	126	35	1096
Fare-boxes. Money-drawer for	W. H. Harrison	337,262	Mar. 2	508	132, 133	34	1020
Fare-receiver	E. Headley	336,410	Feb. 16	1904	499	34	793
Fare recorder and register	H. Marshall	334,534	Jan. 19	1473	395, 396	34	286
Fare-register	S. D. Lake and J. D. Haines	345,151	July 6	488	125	36	89
Fare-register	J. W. Meaker	338,426	Mar. 23	2094	548, 549, 550	34	1326
Fare-register	J. W. Meaker	347,437	Aug. 17	1337	356, 357	36	728
Farm-gate	E. H. and A. E. Adams	354,005	Dec. 7	515	140	37	1100
Farm-gate	C. W. Benschoter	347,152	Aug. 10	937	250	36	646
Farm-gate	C. J. Bottenfield	348,148	Aug. 24	2369	636	36	927
Farm-gate	D. I. Cobb	343,798	June 15	1493	376	35	1291
Farm-gate	J. W. Craig	346,806	Aug. 3	433	119	36	544
Farm-gate	W. H. Fox and H. G. Richey	341,840	May 11	1194	319	35	740
Farm-gate	W. C. Hamner	338,062	Mar. 16	1592	414	34	1225
Farm-gate	H. H. Hoover	346,588	Aug. 3	172	46	36	493
Farm-gate	L. C. Hunter	342,299	May 18	1830	484	35	863
Farm-gate	J. A. Lease	342,113	May 18	1576	421	35	817
Farm-gate	J. B. Martin	341,590	May 11	863	230	35	673
Farm-gate	J. M. Moose	334,797	Jan. 26	1834	489	34	361
Farm-gate	E. H. Penfield	338,869	Mar. 30	2716	714	34	1442
Farm-gate	E. H. Penfield	339,459	Apr. 6	498	121	35	92
Farm-gate	G. Shine	340,376	Apr. 20	1839	472	35	342
Farm-gate	T. P. Skellenger	346,506	Aug. 3	73	19	36	474
Farm-gate	W. W. Sweetland	333,695	Jan. 5	274	74	34	52

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Farm-gate	T. B. Thorn	334,727	Jan. 19	1742	465	34	337
Farm-gate. Swinging and rolling	G. Bressler	333,915	Jan. 5	569	154	34	106
Farmers' implements. Show-rack for	A. Doeseler	341,693	May 11	1014	268	35	704
Fastener. Metallic	G. W. McGill	337,182	Mar. 2	404	105	34	1000
Fastener. Metallic	G. W. McGill	337,969	Mar. 16	1470	382	34	1203
Fastening device	W. B. Coulter	342,332	May 25	1888	500	35	882
Fastening for boxes, satchels, &c	B. F. Hillery	336,316	Feb. 16	1777	465	34	769
Fats and oils. Bleaching animal	W. B. Allbright	345,872	July 20	1539	.....	36	288
Fats with milk, &c. Apparatus for effecting emulsion of	C. A. Johansson	336,324	Feb. 16	1787	467	34	770
Faucet	J. F. Bogan	339,133	Apr. 6	20	7	35	6
Faucet	J. F. Bogan	344,157	June 22	1984	508	35	1389
Faucet	W. Dougherty	352,048	Nov. 2	459	125	37	545
Faucet	P. E. Dummer and P. E. Malmström	341,410	May 4	615	168	35	616
Faucet	S. Gissinger	342,349	May 25	1920	507	35	887
Faucet	A. Habernicht	343,451	June 8	1011	252	35	1197
Faucet	W. W. Jackson	348,914	Sept. 7	508	135	36	1141
Faucet	R. Marsh	350,596	Oct. 12	700	190	37	134
Faucet	R. Marsh	351,876	Nov. 2	210	59	37	497
Faucet	J. McKenzie	337,511	Mar. 9	874	222	34	1089
Faucet	E. Morère	338,860	Mar. 3[illegible]	2706	712	34	1440
Faucet	D. and T. Morris	338,353	Mar. 23	1991	524	34	1308
Faucet	R. M. Reilly and F. King	336,159	Feb. 16	1536	405	34	727
Faucet	P. Schofield	334,291	Jan. 1[illegible]	1141	306	34	220
Faucet	E. U. Scoville	347,131	Aug. 10	904	241	36	639
Faucet	J. R. Underwood	344,695	June 2	2713	705	35	1531
Faucet and beer-pump. Combined	F. X. Escherich	338,050	May 16	1580	411	34	1322
Faucet and beer-pump. Combined	E. M. Hugentobler	339,295	Apr. 6	259	65	35	48
Faucet and bushing	M. Anthony	339,252	Apr. 6	201	51	35	37
Faucet and filler	E. Kells	336,721	Feb. 23	2338	612	34	877
Faucet and filler. Can	J. Greulloch, Jr	341,476	May 1[illegible]	706	189	35	643
Faucet. Automatic filling	U. Bachmann	348,372	Aug. 31	3698	725	36	996
Faucet. Beer	C. B. Locke	352,140	Nov. 8	614	162	37	580
Faucet. Beer	J. Walsh	352,964	Nov. 22	1710	459	37	802
Faucet. Bottle	C. T. Jones	354,150	Dec. 1[illegible]	746	200	37	1149
Faucet. Cistern	J. N. Carver	341,730	May 11	1056	280	35	712
Faucet for beer and other liquids	A. Stover	342,052	May 18	1480	396	35	799
Faucet for bottles. Vent	F. McArdle	342,450	May 2[illegible]	2061	544	35	912
Faucet for oil-cans	G. W. Banker	341,210	May 4	326	92	35	565
Faucet for shipping and service cans	J. Tilton	336,174	Feb. 16	1560	411	34	731
Faucet for shipping-cans, &c	J. Marshall	348,756	Sept. 7	297	79	36	1102
Faucet. Force and drain	F. R. Tibbitts	337,210	Mar. 2	436	114	34	1007
Faucet. Force and drain	A. J. and E. H. Weatherhead	353,723	Dec. 7	106	28	37	1026
Faucet. Reversible	R. Marsh	351,875	Nov. 2	209	59	37	497
Faucet. Screw	J. Jaeger	347,609	Aug. 17	1586	421	36	775
Faucet. Self-closing	H. B. Leach	340,329	Apr. 2[illegible]	1771	452	35	329
Faucet. Self-closing	J. C. Miller	343,830	June 15	1529	386	35	1298
Faucet. Water	L. E. Clark	343,106	June [illegible]	471	120	35	1092
Faucets. Adjustable measuring-chamber for	A. W. Straight	341,518	May 1	758	204	35	654
Faucets. Drain-tube for	A. J. Weatherhead	346,520	Aug. 3	92	24	36	478
Faucets. Extension attachment for oil-tank	G. P. Saunders	342,138	May 1[illegible]	1604	428	35	823
Faucets in beer-coolers. Air-excluder for	T. G. Saxton	355,218	Dec. 2[illegible]	2269	598	37	1453
Faucets. Leveling attachment for measuring	J. O. Boggs	355,127	Dec. 2[illegible]	2140	563	37	1426
Faucets. Proportional measuring attachment for	D. A. Sutherland	336,172	Feb. 1[illegible]	1554	410	34	730
Feather pompon	P. A. Merian	343,592	June 1	1306	303	35	1239
Feather-renovator	N. Baruch and O. L. Williams	347,458	Aug. 1	1379	{366 / 367}	36	735
Feather-renovator	H. B. Doolittle	355,151	Dec. 2	2172	573	37	1432
Feather-renovator	T. E. and E. W. Hill	342,513	May 2	2165	573	35	929
Feather-renovator	C. Moritz	339,315	Apr. 6	286	72	35	55
Feather-sorter	H. Fenner	335,144	Feb. 3	63	17	34	452
Feathers. Machine for cutting the down from	C. Lachner	345,515	July 1	1000	254	36	186
Feathers. Machine for scraping the quills of	J. Hawlowetz	347,486	Aug. 1	1417	377	36	742
Feathers. Machine for treating	A. C. Rich	351,654	Oct. 2	2254	584	37	431
Feed-bag	H. L. Brown	342,680	May 2[illegible]	2389	633	35	972
Feed-bag for animals	H. S. Dyer and C. R. Monfort	354,050	Dec. 7	579	157	37	1111
Feed-bag for animals	F. P. Eastman	347,582	Aug. 1[illegible]	1549	412	36	767
Feed-bag for horses	H. Fink	347,929	Aug. 2	2067	549	36	871
Feed-cutter	J. Buck	342,859	June [illegible]	114	29	35	1027
Feed-cutter	J. Dick, Jr	341,320	May	496	{134 / 135}	35	594
Feed-cutter	M. S. Field	346,151	July 2	1926	497	36	369
Feed-cutter	A. Hamacek	346,200	July 2	1993	514	36	382
Feed-cutter	F. Hamachek	349,713	Sept. 2	1622	418	36	1371
Feed-cutter	J. O. Holtzman	336,320	Feb. 1	1782	466	34	769
Feed-cutter	J. P. Outcalt	349,661	Sept. 2	1526	394	36	1349
Feed-cutter	J. H. Parrish	337,426	Mar. [illegible]	752	193	34	1070
Feed-cutter	J. Schoepflin	350,159	Oct. 5	86	25	37	19
Feed-cutter	C. and C. A. Silberzahn	345,078	July 6	389	98	36	71
Feed-cutter	J. C. Wilson	341,199	May 1	315	89	35	563
Feed-cutter feed-chain	P. Fisher	334,367	Jan. 12	1244	335	34	238
Feed-cutting machine	L. M. Batty	346,707	Aug. 3	322	89	36	524
Feed-grinder	M. L. Metzger and A. Cooper	345,163	July 6	503	{128 / 129}	36	92
Feed-rack	L. D. Wallace	344,426	June 29	2361	608	35	1465
Feed-regulator	J. Lombart	336,496	Feb. 16	2017	529	34	813
Feed-regulator	L. C. Shroeder	334,092	Jan. 12	830	227	34	162
Feed regulator. Boiler	M. Crawford	334,691	Jan. 19	1604	453	34	327
Feed-regulator boiler	C. O. Wyman	354,078	Dec. 7	620	169	37	1119
Feed-roll	A. Rodgers	342,228	May 18	1714	456	35	843
Feed-trough	A. Boyles	351,489	Oct. 26	2011	522	37	385
Feed-trough	E. A. Craig	333,604	Jan. 5	142	38	34	29
Feed-trough	H. Mendenhall	339,918	Apr. 13	1173	292	35	216
Feed-trough	R. G. Ping	349,519	Sept. 21	1348	351	36	1313

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Invention.	Name.	No.	Date.	Monthly volume		Official Gazette.	
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Feed-trough	S. A. and J. M. Rine	339,694	Apr. 13	886	218	35	162
Feed-trough. Poultry	M. D. Beach	347,081	Aug. 10	842	224	36	628
Feed-water alarm for steam boilers	E. Amouroux	338,015	Mar. 16	1536	399	34	1215
Feed-water apparatus	A. A. Shobe	335,968	Feb 9	1242	330	34	669
Feed-water cleaner	J. T. Bryant	350,910	Oct. 19	1146	305	37	223
Feed-water for steam boilers. Preparing	F. G. Fowler	346,198	July 27	1989	513	36	382
Feed-water heater	J. F. Belleville	336,283	Feb. 16	1733	453, 454	34	760
Feed-water heater	E. G. T. Colles	351,360	Oct. 26	1789	470	37	345
Feed-water heater	T. W. Duffy	350,300	Oct. 5	267	77	37	55
Feed-water heater	T. Clarke and W. S. Flynn	347,228	Aug. 10	1039	277	36	664
Feed-water heater	T. Davis and W. W. Tyler	337,670	Mar. 9	1064	274	34	4112
Feed-water heater	H. Fairbanks	337,756	Mar 9	1168	304	34	1142
Feed-water heater	T. Fairbanks	336,802	Feb. 23	2439	641	34	896
Feed-water heater	H. Fairbanks and C. H. Magoon	339,393	Apr. 6	401	98	35	74
Feed-water heater	H. C. Francis	339,635	Apr. 13	798	196	35	147
Feed-water heater	M. J. Galligan	345,778	July 20	1414	366	36	267
Feed-water heater	E. Green	339,983	Apr 13	1266	316	35	232
Feed-water heater	G. Green	352,464	Nov. 9	1043	281	37	661
Feed-water heater	W. Herd	354,194	Dec. 14	811	215	37	1161
Feed-water heater	S. R. Hughes	345,593	July 13	1134	289	36	210
Feed-water heater	J. Kirkaldy	351,182	Oct. 19	1549	405, 406	37	297
Feed-water heater	W. H. H Knowlton	344,913	July 6	166	42	36	31
Feed-water heater	J. Mahoney	336,929	Mar. 2	63	17	34	938
Feed-water heater	C. Manning	337,510	Mar. 9	873	221	34	1089
Feed-water heater	J. O'Brien and S. J. Weaver	337,189	Mar. 2	412	107	34	1092
Feed-water heater	H. Poe	334,192	Jan. 12	984	265	34	189
Feed-water heater	O. Rothrock	334,197	Jan. 12	1004	267	34	194
Feed-water heater	F. Shickle	335,317	Feb. 2	323	84	34	499
Feed-water heater	I. D. Small	344,686	June 29	2702	702	35	1529
Feed-water heater	A. F. Ward	352,377	Nov. 9	933	250	37	639
Feed-water heater	H. Warden	352,379	Nov. 9	937	251	37	640
Feed-water heater	H. Wilson	354,368	Dec. 14	1055	282	37	1206
Feed-water heater and purifier	T. Davis and W. W. Tyler	345,578	July 13	1114	285	36	206
Feed-water heater and purifier	W. J. Smith	349,181	Sept. 14	883	227	36	1213
Feed-water heater for steam-boilers	W. M. Ferry	350,820	Oct. 12	1021	273	37	192
Feed-water in multitubular upright boilers. Circulation of	W. D. Hooker	349,046	Sept. 14	701	179	36	1179
Feed-water purifier	J. T. Mead and J. Thomson	336,249	Feb. 16	1684	439	34	751
Feed-water purifier and boiler-cleaner. Combined.	E. G. T. Colles	343,435	June 8	977	244	35	1192
Feed-water purifier and heater	J. P. Warner	346,247	July 27	2065	530	36	396
Feed-water. Purifying	A. L. G. Dehne	344,085	June 22	1887	484	35	1371
Feed-water regulator	A. J. Aderhold	341,303	May 4	319	90	35	564
Feed-water regulator	F. Cook and B. Thoens	342,684	May 25	2394	634, 635	35	973
Feed-water regulator	F. Cook and B. Thoens	354,099	Dec. 14	653	177	37	1134
Feed-water regulator	L. P. Foss	336,307	Feb. 16	1768	463	34	767
Feeder. Automatic water-	S. F. Gold	354,780	Dec 21	1652	437	37	1322
Feeder. Boiler-	W. Cunningham	346,269	July 27	2094	539	36	401
Feeder. Boiler-	N. Curtis	348,892	Sept. 7	480	127, 128	36	1136
Feeder. Boiler-	N. Curtis	348,893	Sept. 7	481	128	36	1136
Feeder. Calf-	E. F. Funk	336,225	Feb. 16	1643	429	34	745
Feeder for steam-boilers. Automatic water-	C. O. Rabut	353,882	Dec. 7	328	86	37	1067
Feeder. Self-regulating boiler-	C. A. Lockwood	351,451	Oct. 26	1949	507, 508	37	373
Feeder. Steam-boiler	J. A. Adams	345,355	July 13	774	194	36	145
Feeder. Steam-boiler	T. H. White	343,878	June 15	1592	405	35	1310
Feeder. Stock-	J. P. Wilder and A. D. Arkland	348,305	Aug. 31	2610	702, 703	36	979
Feeder. Time stock-	L. Deguenant	354,308	Dec. 14	974	259	37	1190
Feeding animals. Automatic device for	J. W. Sears	346,504	Aug. 3	69	18	36	473
Feeding rack. Cattle-	T. H. Queen	343,491	June 8	1066	266	35	1207
Feeding rack. Sheep-	D. W. Bickerstaff	333,722	Jan. 5	314	86	34	59
Feeding rack. Sheep-	J. Phillips	335,384	Feb. 2	417	107	34	516
Feeding salt or compressed feed to cattle. Device for	M. S. Thompson and H. A. Lee	342,885	June 1	156	40	35	1034
Feeding stand. Poultry-	S. McDonald	343,386	June 8	919	230	35	1181
Feeding stock. Automatic device for	J. W. Sears	346,505	Aug. 3	71	18.19	36	473
Feeding stock on cars. Apparatus for	J. W. Street	336,873	Feb. 23	2540	669	34	915
Felly for wheels. Metallic	J. W. Haworth	334,949	Jan. 26	2023	539	34	396
Felly. Vehicle-wheel	E. Danford	333,732	Jan. 5	326	90	34	61
Felt and other materials. Machine for cutting	J. W. Millet	348,763	Sept. 7	308	82	36	1104
Felt foot-wear	W. P. Hyatt	347,110	Aug. 10	879	232	36	634
Felt foot-wear. Making	A. A. Hawley	340,667	Apr. 27	2247	591	35	421
Felting. Preparation of animal fiber for	J. T. Waring	339,034	Mar. 30	2967	.....	34	1466
Fence	J. Baines	351,244	Oct. 19	1636	427	37	311
Fence	E. M. Baker	353,437	Nov. 30	2398	640	37	940
Fence	W. Bell	349,559	Sept. 21	1400	362	36	1322
Fence	W. M. Berry	355,249	Dec. 28	2322	611	37	1462
Fence	R. Black and J. Strachan	339,368	Apr. 6	367	89	35	68
Fence	W. E. Bunch	347,865	Aug. 24	1966	522	36	853
Fence	G. Bissing	342,282	May 18	1795	476	35	857
Fence	J. O. Carter	339,855	Apr. 13	1097	273	35	201
Fence	J. W. Clark	339,266	Apr. 6	218	54	35	41
Fence	H. C. Coats and H. B. Reiber	341,224	May 4	358	99	35	571
Fence	L. H. Colbert	348,318	Aug. 31	2624	707	36	981
Fence	S. Collins	353,665	Dec. 7	17	5	37	1010
Fence	G. A. Cooke	343,107	June 1	472	120	35	1069
Fence	E. M. Corpening	350,119	Oct. 5	29	8	37	8
Fence	L. A. Cussins	353,626	Nov. 30	2680	718	37	999
Fence	J. Dickason	340,988	May 4	25	7	35	510
Fence	J. Dickason	340,989	May 4	26	7	35	510
Fence	W. H. Dungan	352,454	Nov. 9	1028	277	37	658

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fence	A. Fay	353,741	Dec. 7	125	35	37	1030
Fence	W. W. Gage	336,634	Feb. 23	2214	578	34	853
Fence	G. A. Galloway	350,127	Oct. 5	39	11	37	10
Fence	W. Gepford	352,815	Nov. 16	1506	405	37	754
Fence	H. S. Gunther	336,405	Feb. 16	1899	497	34	791
Fence	M. J. Gordon	354,408	Dec. 14	1101	295	37	1215
Fence	C. Hanika	351,050	Oct. 19	1370	359	37	263
Fence	J. E. Hinkle	351,032	Oct. 19	1344	353	37	258
Fence	G. W. Holmes	353,859	Dec. 7	294	77	37	1060
Fence	J. M. Kelly	344,660	June 29	2672	693	35	1523
Fence	W. Kelly	349,040	Sept. 28	1925	498	36	1430
Fence	W. R. King and J. W. Highfield	353,950	Dec. 7	435	119	37	1086
Fence	I. L. Landis	339,434	Apr. 6	460	111	35	85
Fence	J. T. Lesher	340,795	Apr. 2[illegible]	2424	638	35	454
Fence	C. W. Meyer	341,037	May 4	85	24	35	521
Fence	A. Newkirk	334,973	Jan. 27	2057	548	34	401
Fence	A. Newkirk	339,919	Apr. 15	1180	293	35	217
Fence	W. and W. Pearson	339,457	Apr. 8	495	120	35	92
Fence	B. A. Rogers	342,308	May 16	1845	488	35	865
Fence	L. Sams	355,217	Dec. 28	2269	598	37	1452
Fence	J. M. Sanderson	346,778	Aug. 3	404	111	36	539
Fence	W. F. Shedd	344,413	June 22	2342	602	35	1461
Fence	E. F. Shellaberger	334,988	Jan. 26	2073	553	34	404
Fence	J. R. Standley	339,116	Mar. 30	3081	815	34	1504
Fence	M. Stentz	344,211	June 22	2061	527	35	1403
Fence	I. B. Stillman	341,359	May 2	545	149	35	603
Fence	J. Suydam	342,765	May 27	2516	672	35	997
Fence	W. A. Tillman	336,499	Feb. 16	3019	550	34	813
Fence	N. E. Weisell	338,573	Mar. 26	2287	600	34	1359
Fence	R. L. Whittington	353,903	Dec. 4	367	98	37	1074
Fence	M. Wilson	338,902	Mar. 30	2775	731	34	1451
Fence	O. I. Yager	353,243	Nov. 2[illegible]	2111	565	37	880
Fence	A. Yarlot	341,119	May 1	204	62	35	543
Fence	S. Yarlot	341,118	May 1	203	62	35	542
Fence	A. J. and G. B. M. Yarlot	341,120	May 1	205	62	35	543
Fence. Barbed	G. W. McGill	343,482	June 8	1056	263	35	1205
Fence. Barbed	J. L. Riter	352,428	Nov. 1	997	269	37	652
Fence. Barbed	J. F. Whitney and M. R. Hubbell	344,428	June 29	2363	608	35	1465
Fence binder. Wire	W. C. Gholson	352,406	Nov. 1	970	260	37	617
Fence-clamp	W. H. Kirby	353,072	Nov. 2[illegible]	1873	506	37	832
Fence coupler. Wire	W. M. Clow	354,096	Dec. 1[illegible]	650	176	37	1133
Fence. Electric	D. H. Wilson	343,939	June 1[illegible]	1666	427	35	1326
Fence. Flexible metallic	A. Brock	344,077	June 2	1877	482	35	1370
Fence. Flood	G. W. Martin	354,201	Dec. 1[illegible]	818	217	37	1163
Fence. Flood	J. A. Proctor and J. B. Martin	353,157	Nov. 2[illegible]	3001	536	37	858
Fence gate. Wire	W. M. Clow	354,095	Dec. 1	648	175	37	1133
Fence gate. Wire	T. Ruediger	350,082	Sept. 2	2126	550	36	1468
Fence-guard	J. P. Bloomer	338,917	Mar. 30	2796	737	34	1455
Fence. Hedge and wire	R. W. Oliver	346,123	July 2	1877	485	36	360
Fence. Iron	S. Crowell	342,429	May 2[illegible]	2039	538	35	978
Fence. Iron	O. A. Lockwood	342,269	May 2	1954	516	35	893
Fence-machine	A. H. Allison	349,294	Sept. 2[illegible]	1027	263	36	1251
Fence-machine	C. F. Bartling	350,967	Oct. 1	1222	324	37	217
Fence-machine	J. H. Beaver	352,111	Nov. 1	565	150	37	572
Fence-machine	A. R. Conger	340,421	Apr. 2	1889	485	35	352
Fence-machine	R. F. Deering	352,678	Nov. 1	1329	358 359	37	721
Fence-machine	I. N. Elliott	343,232	June	665	165 166	35	1136
Fence-machine	A. Haynes	352,540	Nov. 1	1131	305 306	37	685
Fence-machine	M. C. Henley	346,749	Aug. [illegible]	370	100	36	533
Fence-machine	J. Macy and C. M. Gilbert	348,288	Aug. 3	2583	694	36	973
Fence-machine	C. E. Miller	348,570	Sept.	49	14	36	1056
Fence-machine	C. H. Ohmart	351,998	Nov. [illegible]	394	107	37	532
Fence-machine	J. M. Patterson	337,989	Mar. 16	1498	389	34	1208
Fence-machine	E. C. Phillips	343,604	June 15	1224	307 308	35	1243
Fence-machine	O. B. Rowlett and W. C. Shoemaker	352,892	Nov. 16	1607	433	37	775
Fence-machine	W. Van Horn	347,400	Aug. 17	1290	344	36	719
Fence-machine	T. F. Vandegrift	341,706	May 11	1028	272	35	707
Fence-machine	S. Watson	338,893	Mar. 30	2763	728	34	1449
Fence-machine	J. Williams, J. Reynolds, and J. Bell	342,240	May 18	1730	459	35	846
Fence machine. Barb	J. D. Curtis	339,086	Mar. 30	3036	802	34	1496
Fence-machine. Portable	J. Middaugh and C. M. Wilcox. (Reissue.)	10,687	Feb. 9	1398	369 370	34	697
Fence-machine. Portable	J. Middaugh and C. M. Wilcox	347,190	Aug. 10	989	264	36	655
Fence machine. Wire	A. Boggs	347,562	Aug. 17	1523	405	36	761
Fence machine. Wire	L. R. Cowles and S. D. Buttz	353,206	Nov. 23	2070	553	37	871
Fence machine. Wire	B. L. Fletcher	339,159	Apr. 6	58	18	35	14
Fence machine. Wire	B. L. Fletcher and S. C. Tatum, Jr.	354,118	Dec. 14	683	184	37	1139
Fence machine. Wire	G. W. Homsher	352,505	Nov. 9	1069	293	37	670
Fence machine. Wire	F. M. Love	346,595	Aug. 3	181	49	36	495
Fence machine. Wire	F. M. and S. C. Love	352,061	Nov. 2	479	130	37	549
Fence machine. Wire	L. C. Lowden	346,052	July 20	1789	461	36	333
Fence machine. Wire	J. Macy and C. M. Gilbert	342,524	May 25	2175	576	35	931
Fence machine. Wire	S. Pierce	351,842	Nov. 2	159	44	37	488
Fence machine. Wire	W. J. Raymond	339,469	Apr. 6	512	124	35	95
Fence machine. Wire	W. J. Raymond	348,775	Sept. 7	323	86	36	1107
Fence machine. Wire	W. H. Reppeto	347,064	Aug. 10	815	217	36	623
Fence machine. Wire and slat	A. C. Conner	346,429	July 27	2319	597	36	443
Fence machine. Wire-and-slat	A. C. Conner and J. M. Westcott	346,428	July 27	2316	597	36	442
Fence-machines. Tension device for	M. C. Henley	342,010	May 18	1419	379	35	787
Fence-machines. Tension device for	M. C. Henley and H. Farmer	338,738	Mar. 30	2541	671	34	1409

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fence machines. Tension device for wire	S. C. and F. M. Love	350,542	Oct. 12	616	171	37	119
Fence-making apparatus	J. W. Clark	353,019	Nov. 23	1791	481	37	817
Fence-making machine	F. Gulling	354,861	Dec. 21	1756	464	37	1342
Fence-making machine	J. W. Hubler	348,742	Sept. 7	283	76	36	1100
Fence-making machine	E. Miller	337,420	Mar. 9	738	189	34	1067
Fence-making machine	J. B. Thies	335,399	Feb. 2	436	112	34	519
Fence-making machine	J. B. Thies	337,638	Mar. 9	1026	264	34	1118
Fence-making machine	B. A. Welds	352,212	Nov. 9	720	193	37	598
Fence-making machine. Field	S. B. Cross	334,514	Jan. 19	1452	390	34	282
Fence-making machines. Reel for	J. B. Thies	337,637	Mar. 9	1026	263	34	1117
Fence. Metallic	C. Hanika	351,763	Nov. 2	46	13	37	467
Fence. Metallic	C. F. Purdie	348,499	Aug. 31	2879	774	36	1030
Fence. Metallic	H. M. Walker	341,969	May 18	1366	365	35	778
Fence. Metallic picket	E. F. McCarron	352,339	Nov. 9	888	238	37	630
Fence. Picket	W. F. Baird	338,818	Mar. 30	2650	698	34	1129
Fence. Portable	L. W. Fisher	334,577	Jan. 19	1537	411	34	298
Fence. Portable wire	J. F. Hanna	343,171	June 8	580	145	35	1121
Fence-post	O. M. Allaben	337,646	Mar. 9	1036	266	34	1119
Fence-post	D. B. Ayres	349,266	Sept. 14	998	255	36	1236
Fence-post	J. Burns	336,889	Mar. 2	7	2	34	928
Fence-post	J. Burns	349,142	Sept. 14	834	212	36	1204
Fence-post	J. Coder	350,973	Oct. 19	1235	328	37	239
Fence-post	J. D. Cox	340,292	Apr. 20	1721	438	35	320
Fence-post	G. Craine	341,796	May 11	1134	300	35	727
Fence-post	W. T. Farquhar	345,374	July 13	797	201	36	149
Fence-post	W. W. Gage	340,568	Apr. 27	2109	543	35	399
Fence-post	J. Hunter	347,298	Aug. 10	1141	305	36	683
Fence-post	G. W. and C. M. Kiler	342,443	May 25	2054	542	35	911
Fence-post	W. W. McCallin	342,027	May 18	1446	387	35	793
Fence-post	S. T. McDougall	351,194	Oct. 19	1565	411	37	300
Fence-post	G. W. McEwen	340,130	Apr. 20	1486	375	35	277
Fence-post	S. Metzler	342,373	May 25	1958	517	35	894
Fence-post	S. J. Munn	342,922	June 1	211	54	35	1043
Fence-post	W. H. Myers and L. Anderson	335,298	Feb. 2	297	79	34	494
Fence-post	D. S. Pancoast	347,956	Aug. 24	2114	563	36	879
Fence-post	A. A. Parker	334,719	Jan. 19	1733	462	34	335
Fence-post	J. L. Quackenbush	345,075	July 6	386	97	36	70
Fence-post	B. W. Stanton	337,882	Mar. 16	1342	348	34	1180
Fence-post	J. M. Walk and C. R. Foster	348,874	Sept. 7	450	120	36	1136
Fence-post	H. B. Wilson	336,196	Feb. 16	1594	418	34	738
Fence-post	L. D. Woodworth	338,903	Mar. 30	2776	731	34	1451
Fence-post	W. H. H. and S. Yount	349,245	Sept. 14	974	249	36	1231
Fence-post anchor	J. V. Higgins	343,371	June 8	893	224	35	1177
Fence-post base	J. D. S. W. P. Tilton	354,950	Dec. 28	1893	499	37	1380
Fence-post. Iron	M. D. Cummings	348,383	Aug. 31	2712	728	36	999
Fence-post-setting tool	J. Du Bois	353,209	Nov. 23	2074	554	37	872
Fence-post. Sheet-metal	B. F. Randall	349,603	Sept. 21	1459	375	36	1334
Fence-post. Wire	E. Brisbin	338,030	Mar. 16	1559	404	34	1218
Fence-posts. Wire-fastening device for	A. J. Nellis	337,857	Mar. 16	1310	340	34	1174
Fence-posts. Wire fastening device for metallic	W. B. Hayden	340,311	Apr. 20	1745	445	35	324
Fence-posts. Wire-strengthening device for	H. Priday	337,865	Mar. 16	1319	343	34	1175
Fence-rail	W. Billings	339,732	Apr. 13	937	230	35	171
Fence, railing, or balcony	J. Morein	346,057	July 20	1797	463, 464	36	335
Fence. Railway	J. A. Cooley	351,096	Oct. 19	1429	375	37	273
Fence. Sheet-metal picket	J. H. Crisp	346,644	Aug. 3	249	68	36	509
Fence-stay	W. C. Gholson	344,264	June 22	2130	544	35	1415
Fence-stay. Wire	W. C. Gholson	337,259	Mar. 2	503	131	34	1019
Fence-stretcher	C. D. Shellaberger	336,669	Feb. 23	2275	594	34	864
Fence-support	G. H. and J. S. Hume	347,713	Aug. 17	1753	467	36	804
Fence-supporter. Wire	W. C. Gholson	350,825	Oct. 12	1028	275	37	194
Fence-tension apparatus. Wire	W. N. Parrish	334,801	Jan. 26	1838	490	34	362
Fence. Truss-hedge	J. N. Edgerly	347,423	Aug. 17	1318	351	36	724
Fence-weaving machine	H. Ogborn	352,904	Nov. 16	1627	437	37	779
Fence. Wire	J. H. Dougherty	352,232	Nov. 9	746	200	37	603
Fence. Wire	W. C. Gholson	353,129	Nov. 23	1957	523	37	849
Fence. Wire	O. Moseley	348,035	Aug. 24	2212	591	36	897
Fence. Wire	B. Scarles	350,698	Oct. 12	847	228	37	161
Fence. Wire	B. Scarles	353,328	Nov. 30	2236	599	37	909
Fence. Wire	J. Taggart	339,823	Apr. 13	1049	260	35	192
Fence. Wire	J. S. Upton	347,751	Aug. 17	1800	480	36	813
Fence. Wire	I. G. White	349,377	Sept. 21	1153	299	36	1274
Fence-wire and other strands. Stretching	G. W. Cason	338,035	Mar. 16	1564	405	34	1219
Fence. Wire-and-picket	N. H. McAllister	342,619	May 25	2310	610	35	957
Fence-wire. Barbed	J. E. Hunt	338,229	Mar. 16	1820	476	34	1269
Fence-wire carriage	R. Falconer	349,576	Sept. 21	1425	368	36	1326
Fence-wire. Machine for winding or stretching	J. H. Corcoran	344,629	June 29	2637	682	35	1516
Fence-wire reel	I. High	347,241	Aug. 10	1054	282	36	667
Fence-wire sections. Stretching-truck for	J. F. Hanna	345,966	July 20	1668	432	36	312
Fence-wire stretcher	E. Bolton	351,422	Oct. 26	1909	497	37	366
Fence-wire stretcher	E. J. Miles	334,536	Jan. 19	1480	397	34	287
Fence-wire stretcher	T. V. Phelps	335,842	Feb. 9	1065	281, 282	34	639
Fence-wire stretcher	C. R. and M. E. Summers	348,248	Aug. 31	2533	680	36	962
Fence-wire. Tension apparatus for	J. M. Overpeck, O. D. Shank, and L. A. Cussins.	338,610	Mar. 23	2336	611	34	1368
Fence-wire tension device	D. F. Reinheimer	348,294	Aug. 31	2591	697	36	975
Fence-wire tightener	T. C. Histed	344,576	June 29	2560	662	35	1501
Fence-wire tightener	A. J. Upham	344,607	June 29	2604	675	35	1510
Fence-wires. Tool for clinching	H. E. Lambert	341,665	May 11	968	256	35	694
Fences. Anchoring device for wire	W. M. Clow	338,037	Mar. 16	1566	406	34	1220
Fences. Capping for	G. W. Beiser	339,362	Apr. 6	360	87	35	67
Fences. Constructing metallic	C. Hamika	346,544	Aug. 3	121	32	36	483

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fences. Gate for wire	W. C Gholson	353,130	Nov. 23	1958	524	37	849
Fences. Machine for building	W. H. McGrew	341,031	May 4	79	22	35	520
Fences. Machine for building and rerolling wire	J. S. Edge	350,423	Oct. 5	423	121, 122	37	83
Fences. Machine for building combined paling and wire	P. C. Flora	339,397	Apr. 6	405	99	35	75
Fences. Machine for building wire	W. H. Bigelow	337,119	Mar. 2	317	83	34	985
Fences. Machine for constructing	W. D. Schooley	338,822	Mar. 30	2738	721	34	1445
Fences. Machine for making	W. Van Horn	352,939	Nov. 23	1675	450	37	796
Fences. Machine for making picket	G. and L. Kesling	346,923	Aug. 10	609	163, 164	36	586
Fences. Machine for making picket	J. A. Minnick	351,646	Oct 26	2245	581	37	429
Fences. Machine for making slat-and-wire	G. W. Begole	348,184	Aug. 31	2443	656	36	946
Fences. Machine for making slat-and-wire	M. Keller	340,324	Apr. 20	1766	451	35	328
Fences. Machine for making stays for wire	C. B. Brainard	345,104	July 6	423	108, 109	36	77
Fences. Machine for making wire	E. Thorne	351,816	Nov. 2	121	33, 34	37	481
Fences. Machine for making wire-and-picket	W. C. Walker	347,668	Aug. 17	1693	451	36	793
Fences. Machine for manufacturing	R. J. Aultman	340,476	Apr. 20	1968	506	35	366
Fences. Machine for manufacturing	R. B. Stapp	335,253	Feb. 2	236	62, 63	34	482
Fences. Machine for weaving	W. Cook and C. E. Burt	342,069	May 18	1516	405	35	806
Fences. Stay for wire	C B. Brainard	345,877	July 20	1545	399	36	289
Fences. Stay for wire	W. M. Clow	342,580	May 25	2249	596	35	945
Fences. Tension device for wire	J. Wilcox	352,845	Nov. 16	1544	417	37	762
Fences. Warning-strip for barbed	H. C. Pratt	348,929	Sept. 7	533	141	36	1145
Fences. Wire fastener for	L. Logan	345,516	July 13	1002	254	36	186
Fences. Wire-holder for	H. C. Pratt	338,775	Mar. 30	2596	684	34	1419
Fences. Wire-twister for wire	I. R. Saunders	346,618	Aug. 3	215	59	36	502
Fencing. Apparatus for automatically stopping machines for making wire	J. D. Curtis	340,198	Apr. 20	1581	400	35	295
Fencing-machine	G. L. Sutton	351,078	Oct. 19	1402	368	37	268
Fencing. Machine for making barbed	J. D. Curtis	340,939	Apr. 27	2610	688	35	486
Fencing. Machine for making spur-wheel	J. Willoughby	343,288	June 8	750	186, 187	35	1151
Fencing. Machine for making wire-and-picket	W. R. Bowdle	346,260	July 27	2082	535, 536	36	399
Fencing. Machine for manufacturing barbed	J. D. Curtis	340,196	Apr. 20	1576	399	35	294
Fencing-strip. Barbed	J. W. Roop	345,259	July 6	636	161	36	115
Fencing-strips. Device for twisting and stretching	J. Stubbe	340,962	Apr. 27	2643	697	35	492
Fencing-wire. Machine for manufacturing	F. W. Brampton	352,514	Nov. 16	1101	297, 298	37	680
Fender: *See* Carriage-fender. Vehicle-fender. Fire-fender. Vehicle-body fender. Plow-fender.							
Fender	B. V. Butts	354,501	Dec. 14	1233	330	37	1238
Fender	W. F. L. Gentry	354,978	Dec. 28	1924	509	37	1386
Ferments. Manufacture of pure non-organized	M. Blumenthal	338,471	Mar. 23	2155	.....	34	1337
Ferments. Organic. (Non-organized)	M. Blumenthal	344,433	June 29	2369	.....	35	1466
Ferrule. Fishing-rod	J. H. Knapp	337,589	Mar. 9	968	248	34	1107
Fertilizer	H. H. Colquitt	346,024	July 20	1757	.....	36	327
Fertilizer	D. W. Dudley	353,210	Nov. 23	2075	.....	37	872
Fertilizer	J. Van Ruymbeke	341,968	May 18	1365	.....	35	778
Fertilizer and insecticide. Combined	P. Vinson	349,289	Sept. 14	1021	.....	36	1241
Fertilizer-distributer	T. L. Allen	336,373	Feb. 16	1854	486	34	784
Fertilizer-distributer	T. L. Allen. (Reissue)	10,771	Oct. 19	1766	464	37	336
Fertilizer-distributer	J. R. Anthony. (Reissue)	10,706	Apr. 6	755	186	35	132
Fertilizer-distributer	J. R. Anthony	348,507	Aug. 31	2891	777, 778	36	1032
Fertilizer-distributer	D. B. Burdett	354,533	Dec. 21	1288	343	37	1255
Fertilizer-distributer	J. B. Denton	336,798	Feb. 23	2434	640	34	895
Fertilizer-distributer	J. H. and T. Dodds	337,312	Mar. 2	582	153	34	1033
Fertilizer distributer	A. B. Farquhar, H. W. Eisenhart, and B. M. Root.	345,580	July 13	1117	285, 286	36	206
Fertilizer-distributer	J. P. Fulgham	353,551	Nov. 30	2569	685, 686	37	972
Fertilizer-distributer	J. Hilliard	349,717	Sept. 28	1626	419	36	1372
Fertilizer-distributer	W. G. Hurley	347,876	Aug. 24	1991	527	36	856
Fertilizer-distributer	S. W. Jackson	340,217	Apr. 20	1608	407	35	300
Fertilizer-distributer	J. M. Johnston	344,279	June 22	2154	.....	35	1420
Fertilizer-distributer	P. A. Lee	350,258	Oct. 5	217	63	37	45
Fertilizer-distributer	J. M. Lindsey	348,023	Aug. 24	2197	585	36	894
Fertilizer-distributer	A. Lively	338,088	Mar. 16	1626	423	34	1232
Fertilizer-distributer	E. G. Macomber	338,852	Mar. 30	2696	710	34	1438
Fertilizer-distributer	J. A. Maxwell	351,189	Oct. 19	1557	409	37	299
Fertilizer-distributer	W. A. McWhorter	339,454	Apr. 6	490	119	35	91
Fertilizer-distributer	J. A. Ogletree	352,563	Nov. 16	1165	314	37	691
Fertilizer-distributer	H. O. Peabody	343,193	June 8	609	151	35	1126
Fertilizer-distributer	H. O. Peabody	351,462	Oct. 26	1970	512, 513	37	378
Fertilizer-distributer	R. A. Pennal	348,862	Sept. 7	433	116	36	1127
Fertilizer-distributer	R. B. Sheldon and A. R. Patterson	335,152	Feb. 2	71	19, 20	34	453
Fertilizer-distributer	J. J. Snyder, Jr.	352,158	Nov. 9	644	170	37	584
Fertilizer-distributer	G. W. Startzman and E. C. Crain	347,838	Aug. 24	1932	513	36	847
Fertilizer-distributer	E. S. Sweat	349,672	Sept. 21	1538	397	36	1351
Fertilizer-distributer	J. Van Siclen	347,535	Aug. 17	1482	393	36	754
Fertilizer-distributer and planter. Combined	G. B. Billings	333,723	Jan. 5	315	86, 87	34	59
Fertilizer distributer. Broadcast	J. W. Spangler	350,164	Oct. 5	94	27	37	20
Fertilizer-distributers. Feed-cup for	W. Marks	353,570	Nov. 30	2593	692	37	976
Fertilizer dropper. Tobacco	A. McNabb	334,458	Jan. 19	1370	370	34	268
Fertilizer from tank-waste. Making a	E. A. Becker	342,417	May 25	2019	.....	35	904
Fertilizer from tank-waste. Making a	J. Van Ruymbeke	342,238	May 18	1727	.....	35	846
Fertilizer. Root	J. Bührer	349,874	Sept. 28	1843	476	36	1415

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fertilizers and cements. Mechanism for preparing rocks, &c., for	V. Lord	349,229	Sept. 14	954	243	36	1226
Fertilizers and other granular substances. Apparatus for handling	P. B. Bradley	345,479	July 13	947	239	36	176
Fertilizers. Apparatus for manufacturing	J. Seaman	344,139	June 22	1959	500	35	1384
Fertilizers. Manufacture of	J. T. Jullien	354,983	Dec. 28	1935	.....	37	1388
Fiber and fibrous matter. Treatment of	F. B. Greene	338,595	Mar. 23	2317	.....	34	1364
Fiber. Apparatus for carbonizing	A. L. Reinmann	345,860	July 20	1525	394	36	285
Fiber. Apparatus for separating vegetable from animal	T. B. Bowers	339,964	Apr. 13	1237	308, 309	35	227
Fiber-cleaning separato	H. Cole	336,294	Feb. 16	1753	458, 459	34	763
Fiber from fiber-plants. Manufacture of	H. R. Randall	342,843	June 1	96	24	35	1023
Fiber from fiber-producing plants. Obtaining	A. E. Newman	345,984	July 20	1697	437	36	317
Fiber from jute, &c. Machine for removing	J. Juvenet	352,977	Nov. 23	1731	464	37	805
Fiber from the yucca or other cacti. Manufacturing textile	J. C. Belk	336,376	Feb. 16	1857	.....	34	784
Fiber-machine	J. Kennedy	350,063	Sept. 28	2099	543	36	1463
Fiber. Machine for cleansing and extracting	J. Garcia	355,073	Dec. 28	2060	541	37	1410
Fiber plants or material for the production of fibers. Apparatus for treating	H. R. Randall	342,842	June 1	95	24	35	1023
Fiber water-proof, &c. Tendering animal and vegetable	T. J. Pearce and M. W. Beardsley	348,993	Sept. 14	619	.....	36	1166
Fibers. Apparatus for separating mixed	G. and J. E. Tolson	346,245	July 27	2064	530	36	396
Fibers from leaves, &c. Machine for obtaining	G. Sanford	354,244	Dec. 14	875	232	37	1173
Fibers from leaves and plants. Machine for obtaining	G. Sanford	341,171	May 4	279	80	35	556
Fibers. Process of and apparatus for dissolving and removing the gum from nettle and other plant	T. E. Schiefner	353,468	Nov. 30	2443	652	37	948
Fibrous and porous wares. Treating	H. Carmichael	342,179	May 18	1651	.....	35	831
Fibrous materials. Machine for combing	H. Truxler	340,172	Apr. 20	1536	389, 390	35	286
Fibrous plants and separating out the fibers. Machinery for breaking	M. Raabe and F. H. Zimmermann	342,631	May 25	2326	614	35	960
Fibrous substances. Operating on and treatment of vegetable	C. Court	333,731	Jan. 5	325	89	34	61
Fibrous substances. Treating vegetable	W. Marr	342,448	May 25	2059	543	35	912
Fifth-wheel	J. V. Alexander	343,788	June 15	1481	372	35	1289
Fifth-wheel	F. G. Bippus	339,365	Apr. 6	362	88	35	67
Fifth-wheel	A. Buchholz	340,693	Apr. 27	2284	602	35	427
Fifth-wheel	J. F. Crawbuck	345,621	July 13	1167	300	36	216
Fifth-wheel	B. F. Gorsuch	354,784	Dec. 21	1660	439	37	1323
Fifth-wheel	H. Hafker	351,508	Oct. 26	2040	529	37	392
Fifth-wheel	R. M. and W. J. Lawrence	343,089	June 1	367	95	35	1074
Fifth-wheel	E. M. Simmons	338,562	Mar. 23	2275	596	34	1357
Fifth-wheel	E. Storm	344,756	June 29	2798	724	35	1545
Fifth-wheel	M. Tompkins	337,460	Mar. 9	810	205	34	1078
Fifth-wheel anti-rattler	J. Long	336,927	Mar. 2	62	16	34	937
Fifth-wheel gear for vehicles	J. G. Ebken	338,394	Mar. 23	2057	539	34	1318
Fifth-wheel. Vehicle	A. C. Ames	351,016	Oct. 19	1322	347	37	255
Fifth-wheel. Vehicle	W. W. Grier	345,585	July 13	1124	287	36	207
Fifth-wheel. Vehicle	C. C. Pinckney	335,088	Jan. 26	2222	590	34	431
Fifth-wheels. Die for making	F. P. Bates	338,217	Mar. 16	1804	470	34	1266
File	G. Custer	352,083	Nov. 2	510	137	37	555
File	E. A. Kittell	342,831	June 1	81	20	35	1021
File	F. D. Moore	343,136	June 1	595	133	35	1101
File	L. Müller	348,290	Aug. 31	2585	695	36	974
File and binder for pamphlets, bills, &c.	J. R. Pitt	338,675	Mar. 23	2433	641	34	1384
File. Bill-	J. Gottschalk	349,792	Sept. 28	1734	447	36	1392
File. Bill-	P. J. Schlicht	338,788	Mar. 30	2609	688	34	1422
File. Bill and letter	S. H. Fish	351,168	Oct. 19	1522	399	37	292
File. Bill and letter	A. M. Slack	340,832	Apr. 27	2470	650	35	461
File. Bill and letter	J. S. Vanborn	337,213	Mar. 2	439	115	34	1007
File-box	W. H. H. Clague	340,094	Apr. 20	1424	360	35	266
File-box	E. F. Murdock	346,216	July 27	2016	520	36	387
File-box	H. D. Waste	337,903	Mar. 16	1371	355	34	1185
File-box	M. J. Wine. (Reissue)	10,737	June 15	1723	440, 441	35	1336
File-box for documents	E. E. Baker	339,254	Apr. 6	203	52	35	38
File-cabinet for papers, &c.	C. H. Moulton	338,643	Mar. 23	2384	628	34	1376
File-case	J. W. Rountree	339,325	Apr. 6	303	76	35	57
File. Check-	T. A. O'Keefe	337,983	Mar. 16	1492	387	34	1206
File-cutting machine	J. M. Fairbanks	334,115	Jan. 12	865	237	34	168
File. Distributing-	R. F. Leaman	334,532	Jan. 19	1471	394	34	286
File. Document-	J. M. St. John	352,585	Nov. 16	1193	323	37	696
File for bills, music-sheets, &c.	A. Lake	341,252	May 4	392	108	35	577
File-handle	J. Chantrell	337,244	Mar. 2	482	127	34	1015
File-handle	J. Chantrell	337,245	Mar. 2	483	127	34	1015
File-holder	O. C. Mackenzie	336,577	Feb. 23	2131	559	34	839
File holder. Paper-	W. H. Davis and W. Hatfield	346,537	Aug. 3	112	30	36	481
File-holders. Cabinet for	E. W. Woodruff	335,668	Feb. 9	811	216	34	593
File. Letter-	A. H. Green	341,903	May 18	1289	344	35	764
File. Letter-	E. N. Heath	351,979	Nov. 2	364	99	37	526
File. Letter-	L. Nottingham	346,061	July 20	1800	465	36	336
File. Letter and document	E. E. Baker	347,762	Aug. 24	1821	485	36	825
File. Newspaper-	W. A. Borden	337,366	Mar. 9	649	172	34	1053
File. Newspaper-	W. F. File	349,637	Sept. 21	1498	388	36	1343
File. Newspaper-	J. and J. Glaser	337,678	Mar. 9	1072	277	34	1125
File. Newspaper-	J. Habitzreiter	340,305	Apr. 20	1737	442	35	323
File. Newspaper-	W. Schulz	350,507	Oct. 12	575	159	37	112
File. Newspaper-	W. F. Winship	338,682	Mar. 23	2446	645	34	1386
File or holder. Paper	J. H. Stull	341,960	May 18	1356	362	35	777
File. Paper-	E. E. Baker	338,909	Mar. 30	2784	733, 734	34	1453
File. Paper-	A. P. Butts	346,839	Aug. 3	480	132	36	554

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
File. Paper	J. P. Crosby	351,691	Oct. 26	2303	598	37	441
File. Paper	C. Husted	341,482	May 11	711	191	35	644
File. Paper	J. C. Lang	353,953	Dec. 7	439	120	37	1086
File. Paper	A. B. Sherwood	352,664	Nov. 16	1310	353	37	717
File. Paper	W. T. Wood	341,394	May 4	595	163	35	613
File. Paper	H. C. Yeiser and C. Seybold	350,963	Oct. 19	1215	322	37	235
File-stand	E. D. Parsons	347,504	Aug. 17	1439	382	36	746
File. Veterinary	J. Alexander	354,616	Dec. 21	1423	377	37	1378
Files. Cabinet for holding paper	H. W. Reade	338,300	Mar. 23	1915	504	34	1295
Files. Making	J. W. Denmead	355,147	Dec. 28	2169	572	37	1431
Filing-block. Adjustable	F. F. Ide	335,930	Feb. 9	1195	318	34	662
Filing device. Bill and letter	J. S. Vanborn	337,214	Mar. 2	440	115	34	1008
Filing letters, invoices, &c. Case or cabinet for	C. E. Davis	348,955	Sept. 14	570	151	36	1157
Filing metallic ribbons. Machine for	J. Logan	337,689	Mar. 9	1085	281	34	1128
Filing prescriptions. Machine for	J. S. Jarnagin	335,457	Feb. 2	513	134	34	533
Filling and corking machine	T. Cockcroft	341,406	May 4	610	167	35	615
Filling apparatus	T. H. Hathaway	350,675	Oct. 12	816	241	37	156
Filling-cylinder	O. Zwietusch	342,771	May 25	2522	674	35	998
Filling-machine. Turnover	W. Brathy and J. Chadwick	343,001	June 1	307	79	35	1063
Filter	A. Breuer	336,621	Feb. 23	2200	574	34	850
Filter	C. E. Chamberland	336,089	Feb. 16	1429	377	34	709
Filter	W. M. Deutsch	355,004	Dec. 28	1960	517	37	1392
Filter	W. M. Deutsch	355,005	Dec. 28	1965	517	37	1392
Filter	W. and W. E. Foulkes	352,644	Nov. 16	1276	344	37	711
Filter	A. J. Gilbertson	343,519	June 8	1096	275	35	1313
Filter	J. P. Gruber	353,855	Dec. 7	287	76	37	1059
Filter	A. Hallowell	335,581	Feb. 9	691	183	34	571
Filter	J. C. Higgins	338,411	Mar. 23	2074	544	34	1322
Filter	J. W. Hyatt	338,414	Mar. 23	2077	544 / 545	34	1323
Filter	J. W. Hyatt	354,143	Dec. 14	726	195	37	1146
Filter	S. W. Lambertson	339,791	Apr. 13	1012	250	35	185
Filter	B. T. Loomis	342,755	May 25	2504	667	35	994
Filter	T. Luce	347,432	Aug. 17	1329	354	36	726
Filter	C. W. E. Piefke	335,040	Jan. 26	2153	573	34	418
Filter	W. Piercy	352,347	Nov. 9	899	241	37	632
Filter	J. R. Poor	345,318	July 13	722	182	36	136
Filter	H. Roeske	348,534	Aug. 31	2933	788	36	1040
Filter	J. D. Smith	333,896	Jan. 5	539	147	34	101
Filter	P. J. Tracy	348,869	Sept. 7	443	118	36	1129
Filter	J. T. Walls	342,151	May 18	1617	433	35	825
Filter	C. H. Weiderman	347,403	Aug. 17	1295	345	36	720
Filter and cooler. Combined water	J. B. Long	354,795	Dec. 21	1671	442	37	1326
Filter-bed. Elevated	W. S. West	334,629	Jan. 19	1607	428 / 429	34	311
Filter. Centrifugal	R. L. De Lisser	337,050	Mar. 2	225	60	34	967
Filter. Drive-well	D. Wiser	342,667	May 25	2367	626	35	968
Filter for purifying sugar-liquors by bone-black. Continuous	E. E. Quimby	335,622	Feb. 9	751	200	34	582
Filter-press	B. H. Remmers and J. Williamson	338,553	Mar. 23	2259	593	34	1355
Filter-press	M. Swenson	353,514	Nov. 30	2511	669 / 670	37	960
Filter. Pressure	S. G. Derham	337,486	Mar. 9	842	213	34	1084
Filter. Rain-water	B. Ligget	342,616	May 25	2306	609	35	957
Filter. Reversible	E. G. W. Bartlett	333,498	Jan. 5	4	2	34	4
Filter. Water	W. D. Cummings	350,917	Oct. 19	1156	307	37	224
Filter. Water	W. H. Cummings	353,207	Nov. 23	2071	553	37	872
Filter. Water	J. Grant	344,958	July 6	210	56	36	40
Filter. Water	A. McLean and F. Cumming	346,304	July 27	2137	551	36	409
Filter. Water	T. C. Smith	341,068	May 4	129	38	35	529
Filters. Bone-black discharger for continuous	R. C. Howes	335,586	Feb. 9	697	185	34	572
Filters. Bone-black discharger for continuous	F. O. Mattbiessen	335,602	Feb. 9	724	193	34	577
Filters. Bone-black discharger for continuous	F. O. Mattbiessen	335,603	Feb. 9	725	193 / 194	34	577
Filters. Cleansing	G. H. Moore	337,423	Mar. 9	742	190 / 191	34	1068
Filters. Draining device for upwardly-acting bone-black	E. E. Quimby	340,005	Apr. 13	1300	325	35	239
Filters. Seamless felted fabric for	T. S. Wiles	339,722	Apr. 13	986	226	35	169
Filtering alcohol	J. Bendix	333,721	Jan. 5	313	86	34	58
Filtering apparatus	J. Howes	349,101	Sept. 14	783	198	36	1194
Filtering apparatus	W. Neracher	343,251	June 8	697	172 / 173	35	1142
Filtering apparatus for tanks, cisterns, &c. Air-	J. Howes	350,627	Oct. 12	750	206	37	141
Filtering-chamber for public water-supply. Submerged	H. C. Thacher and G. H. Breymann	342,652	May 25	2349	620	35	965
Filtering cistern or vat	C. C. Gilman	341,649	May 11	942	249	35	689
Filtering compound	C. E. Chamberland	336,385	Feb. 16	1869	.....	34	787
Filtering compound	C. E. Chamberland	336,386	Feb. 16	1870	.....	34	787
Filtering device for feed-water pipes	J. Heath	337,154	Mar. 2	361	94	34	993
Filtering device or stone	R. De Lisser	340,295	Apr. 20	1726	.....	35	320
Filtering fabric	S. G. Derham	336,799	Feb. 23	2436	640	34	895
Filtering material	F. Breyer	336,205	Feb. 16	1613	422	34	741
Filtering material	C. C. Gilman	341,651	May 11	945	250	35	690
Filtering media. Producing	F. Breyer	336,206	Feb. 16	1616	422	34	741
Filtering sugar liquors, sirups, and saccharine juices	C. H. W. Foster	353,404	Nov. 30	2352	627	37	930
Filtering water and other liquids. Appliance for	J. P. Jackson	337,584	Mar. 9	963	247	34	1106
Filtering well or reservoir. Water	C. C. Gilman	341,650	May 11	943	250	35	689
Filtration through bone-black. Apparatus for decolorizing sugar-liquors by	F. O. Mattbiessen	335,763	Feb. 9	958	254	34	618
Finger-board instruments. Notation-slip for	J. Burton	346,424	July 27	2310	595	36	441
Finger-exercising device	C. Debuysère	336,216	Feb. 16	1630	425 / 426	34	743
Finger-exercising device	J. Kaspar	351,111	Oct. 19	1449	379	37	277

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Finger for vibrating reeds. Contact	R. G. Brown	345,209	July 6	561	143	36	102
Finger-nail cutter	G. H. Coates	342,780	June 1	10	3	35	1008
Finger-nail cutter	G. H. Coates	350,720	Oct. 12	578	235	37	167
Finger-nail polisher	G. H. Broadhurst	338,245	Mar. 23	1843	485	34	1282
Finger-ring	O. Thie	333,696	Jan. 5	375	74	34	52
Fining composition	M. Herzog	341,239	May 4	377	.....	35	574
Fire-alarm	B. J. Antrim	354,006	Dec. 7	516	140	37	1100
Fire-alarm	J. H. Earles	351,753	Nov. 2	35	10	37	465
Fire-alarm	A. C. Gordon	338,593	Mar. 23	2314	606	34	1364
Fire alarm and extinguisher. Automatic	W. Neracher	344,673	June 29	2687	697	35	1526
Fire-alarm apparatus	C. D. Rogers	340,618	Apr. 27	2177	573, 574	35	410
Fire alarm apparatus	E. L. Slocum	351,075	Oct. 19	1397	367	37	267
Fire-alarm. Automatic	W. J. Baulieu	343,687	June 15	1340	335	35	1263
Fire-alarm. Automatic	W. J. Baulieu	343,691	June 15	1345	336, 337	35	1264
Fire-alarm. Automatic	A. Meisenheimer	350,381	Oct. 5	369	106	37	74
Fire-alarm. Automatic	T. H. Prescott	348,473	Aug. 31	2840	764	36	1023
Fire-alarm box	T. F. Gaynor	335,025	Jan. 26	2127	566	34	414
Fire-alarm boxes. Attachment for	H. H. Rebbeck	337,198	Mar. 2	422	110	34	1004
Fire-alarm indicator	W. C. Walter	334,399	Jan. 12	1280	345, 346	34	244
Fire-alarm or thermostat. Electric	C. E. Kells, Jr. (Reissue)	10,791	Dec. 21	1787	471	37	1348
Fire-alarm signal	T. F. Gaynor	335,027	Jan. 26	2132	567	34	415
Fire-alarm signal-box	J. Ashworth	353,475	Nov. 30	2452	655	37	950
Fire-alarm signal-box	S. A. Chase	345,572	July 13	1106	283	36	205
Fire-alarm system. Automatic	A. D. Wheeler	348,707	Sept. 7	241	64	36	1091
Fire-alarm system. Automatic electric	J. W. Frost and S. D. Lake	350,426	Oct. 5	432	124, 125	37	85
Fire-alarm transmitter	W. C. Shaffer	339,485	Apr. 6	536	130	35	99
Fire and burglar alarm	L. E. Thomas and I. Wood	349,911	Sept. 28	1887	487	36	1424
Fire-arm	S. J. Buzzini	340,482	Apr. 20	1975	508	35	367
Fire-arm	G. W. Cilley	336,894	Mar. 2	12	4	34	929
Fire-arm	I. Johnson and A. Fyrberg	350,681	Oct. 12	826	223, 224	37	157
Fire-arm	G. D. Potter	338,188	Mar. 16	1768	461	34	1260
Fire-arm barrel	E. Rubin	338,192	Mar. 16	1774	462	34	1261
Fire-arm. Breech-loading	T. G. Bennett	352,292	Nov. 9	826	221	37	617
Fire-arm. Breech-loading	R. A. Berger	340,192	Apr. 20	1571	397, 398	35	293
Fire-arm. Breech-loading	C. G. Bonebill	337,810	Mar. 16	1251	324	34	1164
Fire-arm. Breech-loading	J. M. and M. S. Browning	346,021	July 20	1753	451	36	327
Fire-arm. Breech-loading	J. C. Broyles	338,247	Mar. 23	1845	485	34	1282
Fire-arm. Breech-loading	M. E. Card and W. H. Cruttenden	340,283	Apr. 20	1705	434, 435	35	316
Fire-arm. Breech-loading	R. S. Chaffee	342,328	May 25	1882	498, 499	35	881
Fire-arm. Breech-loading	N. R. Davis	346,536	Aug. 3	110	29, 30	36	481
Fire-arm. Breech-loading	A. Dickerman	354,390	Dec. 28	1806	477	37	1363
Fire-arm. Breech-loading	C. J. Ehbets	341,227	May 4	362	100	35	571
Fire-arm. Breech-loading	W. J. Graham	338,732	Mar. 30	2529	668, 669	34	1407
Fire-arm. Breech-loading	S. K. Hindley and E. S. Field	345,058	July 6	367	92	36	67
Fire-arm. Breech-loading	G. Huntley	345,902	July 20	1583	408	36	297
Fire-arm. Breech-loading	T. Kelly	342,363	May 25	1943	513	35	891
Fire-arm. Breech-loading	W. J. Kriz	345,789	July 20	1436	369	36	269
Fire-arm. Breech-loading	D. M. Lefever	343,040	June 1	369	95	35	1074
Fire-arm. Breech-loading	T. Nordenfelt	340,726	Apr. 27	2332	614, 615	35	436
Fire-arm. Breech-loading	Jn P. Pieri	340,002	Apr. 13	1297	324	35	238
Fire-arm. Breech-loading	G. A. Sachs	353,432	Nov. 30	2391	638	37	938
Fire-arm. Breech-loading	W. H. Shear	335,043	Jan. 26	2157	574	34	419
Fire-arm. Breech-loading	H. Tolley	354,751	Dec. 21	1615	428	37	1314
Fire-arm. Breech-loading	J. Tonks	333,795	Jan. 5	410	111	34	77
Fire-arm. Breech-loading	I. L. Waters	349,244	Sept. 14	973	248	36	1230
Fire-arm. Electric	J. Russell	337,872	Mar. 16	1327	345	34	1177
Fire-arm lock	J. Goltstein	351,262	Oct. 19	1647	433	37	314
Fire-arm lock	C. E. Goodwin	342,509	May 25	2162	572	35	929
Fire-arm lock	J. S. Patterson	346,941	Aug. 10	635	170	36	591
Fire-arm. Magazine	G. E. Albee	354,371	Dec. 14	1058	283	37	1207
Fire-arm. Magazine	P. A. Altmaier	334,731	Jan. 26	1749	467	34	345
Fire-arm. Magazine	T. G. Bennett	343,423	June 8	964	241	35	1189
Fire-arm. Magazine	J. M. and M. S. Browning	336,287	Feb. 16	1740	455, 456	34	761
Fire-arm. Magazine	J. M. and M. S. Browning	345,881	July 20	1549	400	36	290
Fire-arm. Magazine	J. M. and M. S. Browning	345,882	July 20	1553	401	36	291
Fire-arm. Magazine	A. R. Byrkett	336,289	Feb. 16	1747	457	34	762
Fire-arm. Magazine	C. J. Ehbets	343,800	June 15	1495	377	35	1292
Fire-arm. Magazine	W. B. Franklin and C. J. Ehbets	335,517	Feb. 2	594	155	34	546
Fire-arm. Magazine	A. L. Larsen and C. E. Winterros	334,244	Jan. 12	1068	283, 284	34	206
Fire-arm. Magazine	W. Mason	343,470	June 8	1040	259	35	1202
Fire-arm. Magazine	W. Mason	354,327	Dec. 14	999	265, 266	37	1195
Fire-arm. Magazine	W. Mason	354,328	Dec. 14	1002	266	37	1195
Fire-arm. Magazine	W. Mason	354,329	Dec. 14	1004	266, 267	37	1196
Fire-arm. Magazine	W. Mason	354,427	Dec. 14	1123	301	37	1219
Fire-arm. Magazine	J. W. Mullins	349,282	Sept. 14	1013	259	36	1239
Fire-arm. Magazine	J. L. Randall	343,492	June 8	1067	266	35	1207
Fire-arm. Magazine	O. Schoenauer	336,443	Feb. 16	1951	511	34	801
Fire-arm. Magazine	G. N. Spencer	347,072	Aug. 10	831	221	36	626
Fire-arm. Magazine	W. Trabue. (Reissue)	10,690	Feb. 16	2078	546	34	824
Fire-arm. Magazine	E. Whitney and W. C. Scharf	354,757	Dec. 21	1623	429, 430	37	1315

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fire-arm. Repeating	F. Rees	337,992	Mar. 16	1502	390	34	1208
Fire-arm. Repeating	F. Rees	337,993	Mar. 16	1508	390, 391	34	1209
Fire-arm. Revolving	J. Boland	333,725	Jan. 5	318	87	34	60
Fire-arm. Revolving	B. Merritt	338,760	Mar. 30	2571	678, 679	34	1415
Fire-arm safety-lock	H. C. Waldecker	338,451	Mar. 23	2131	557	34	1332
Fire-arm sight	W. Lyman	348,224	Aug. 31	2501	673	36	956
Fire-arms. Ejector for	I. Johnson	339,229	Apr. 6	266	67	35	49
Fire-arms, &c. Pneumatic device for discharging	O. Straube	348,868	Sept. 7	442	118	36	1129
Fire-arms. Safety-catch for	G. D. Potter	338,189	Mar. 16	1771	462	34	1261
Fire-arms. Sight for	T. G. Bennett	355,121	Dec. 28	2133	560	37	1425
Fire-arms. Sight for	W. W. Wetmore	338,898	Mar. 30	2768	729	34	1450
Fire-bed and tuyere	F. M. Roots	349,363	Sept. 21	1132	292	36	1270
Fire-boxes. Air-feeder for	G. W. Cushing	348,894	Sept. 7	485	128, 129	36	1136
Fire-bucket	J. Chivill	353,733	Dec. 7	116	32	37	1027
Fire-engine	R. Morrell	337,424	Mar. 9	745	191	34	1068
Fire-engine	A. T. Simon	346,872	Aug. 3	530	144	36	563
Fire-engine. Hand	J. G. Chancellor and E. C. Henry	345,571	July 13	1105	292, 293	36	204
Fire-escape	W. H. Bailey	335,414	Feb. 2	458	118	34	523
Fire-escape	D. P. Barrett	342,856	June 1	110	28	35	1026
Fire-escape	J. Bien	336,887	Mar. 2	5	2	34	927
Fire-escape	J. Bien	350,473	Oct. 12	528	147, 148	37	105
Fire-escape	C. Brown	345,110	July 6	431	111	36	79
Fire-escape	W. Brown	335,108	Feb. 2	10	3	34	442
Fire-escape	F. Brueningsen and E. Quinn	334,741	Jan. 26	1764	470	34	348
Fire-escape	J. H. Clifton	335,896	Feb. 9	1154	306	34	654
Fire-escape	F. E. Davis	348,895	Sept. 7	486	129	36	1136
Fire-escape	D. H. Dillman	341,321	May 4	498	136	35	205
Fire-escape	F. W. Emons	337,940	Mar. 16	1428	370	34	1196
Fire-escape	P. Fogarty	339,871	Apr. 13	1117	278	35	205
Fire-escape	J. Friborg	346,540	Aug. 3	115	31	36	482
Fire-escape	W. S. Goodwillie	333,624	Jan. 5	165	45	34	33
Fire-escape	L. J. Gott	352,463	Nov. 9	1042	280	37	661
Fire-escape	G. C. Hale	346,907	Aug. 10	589	157	36	582
Fire-escape	F. E. Hamlin and G. W. Smith	340,573	Apr. 27	2113	545	35	400
Fire-escape	O. Hansen	336,713	Feb. 23	2323	609	34	874
Fire-escape	S. Hargrave, Sr., and A. M. Lee	339,647	Apr. 13	814	200	35	149
Fire-escape	L. Hirsch	353,029	Nov. 23	1803	484	37	819
Fire-escape	A. Hutchings	346,406	July 27	2295	587	36	437
Fire-escape	A. Ilse	338,843	Mar. 30	2685	707	34	1436
Fire-escape	A. M. Jeffers	334,230	Jan. 12	1047	278	34	203
Fire-escape	J. D. Jenkins	337,064	Mar. 2	240	64	34	970
Fire-escape	A. J. Johnson	338,750	Mar. 30	2557	675	34	1412
Fire-escape	W. A. Kerr	336,414	Feb. 16	1911	500, 501	34	794
Fire-escape	W. G. Ketchum	334,237	Jan. 12	1055	281	34	204
Fire-escape	D. B. Kimball	342,108	May 18	1572	419	35	816
Fire-escape	H. Lewis	337,594	Mar. 9	975	250	34	1108
Fire-escape	J. A. Neilson	339,918	Apr. 13	1177	292	35	217
Fire-escape	F. B. Peters	354,217	Dec. 14	838	222, 223	37	1167
Fire-escape	G. W. Putnam	342,810	June 1	48	13	35	1015
Fire-escape	O. H. Rounds	349,366	Sept. 21	1135	292, 293	36	1271
Fire-escape	H. C. Schmidt	350,773	Oct. 12	946	254	37	180
Fire-escape	S. I. Trask	352,211	Nov. 9	719	193	37	598
Fire-escape	T. B. Woodward	349,870	Sept. 28	1836	474	36	1413
Fire-escape. Electric	M. D. Marcus and N. H. Epsteyn	335,372	Feb. 2	402	103	34	514
Fire-escape ladder	J. P. Dunn	350,047	Sept. 28	2065	534	36	1457
Fire-escape ladder	A. H. Lorenze	340,797	Apr. 27	2425	639	35	454
Fire-escape ladder	A. O. Nordenborg	342,924	June 1	212	54	35	1043
Fire-escape ladder. Folding	F. W. Hofele. (Reissue)	10,726	May 18	1859	491, 492	35	869
Fire-escape. Portable	J. B. Bray	342,820	June 1	60	15. 16	35	1017
Fire-extinguisher	L. S. Lewis	345,908	July 20	1591	410	36	299
Fire-extinguisher	H. A. Mansfield	351,185	Oct. 19	1552	407	37	298
Fire-extinguisher	G. A. Morison	340,724	Apr. 27	2329	613	35	433
Fire-extinguisher	W. Neracher	340,812	Apr. 27	2447	643	35	458
Fire-extinguisher	C. H. and F. Westcott	347,216	Aug. 10	1024	273	36	661
Fire-extinguisher. Automatic	J. Andrew	346,796	Aug. 3	422	116	36	543
Fire-extinguisher. Automatic	E. H. Ashcroft	346,571	Aug. 3	150	41	36	489
Fire-extinguisher. Automatic	J. Kane	351,267	Oct. 19	1654	434	37	315
Fire-extinguisher. Automatic	D. Rosebush	348,140	Aug. 24	2358	632	36	924
Fire-extinguisher. Chemical	R. A. Ballou	338,242	Mar. 23	1837	483	34	1281
Fire-extinguisher. Chemical	R. A. Ballou	348,095	Aug. 24	2305	618	36	915
Fire-extinguisher. Chemical	R. A. Ballou	354,617	Dec. 21	1423	317	37	1278
Fire-extinguisher. Chemical	C. T. Holloway	347,606	Aug. 17	1583	421	36	774
Fire-extinguisher for chimneys	D. Putzeys	345,447	July 13	907	227	36	168
Fire-extinguisher. Hand	W. M. Harrison	338,520	Mar. 23	2220	582	34	1348
Fire-extinguisher. Hand	D. M. Monroe	336,658	Feb. 23	2257	588	34	861
Fire-extinguisher. Hand	A. W. Porter	343,489	June 8	1064	266	35	1207
Fire-extinguisher. Hand-grenade	W. N. Kip and A. H. Van Riper	344,319	June 22	2205	567	35	1428
Fire-extinguisher. Hand-grenade	A. E. Lytle	337,344	Mar. 2	619	163	34	1040
Fire-extinguisher. Prairie	A. W. Rumsey	337,066	Mar. 2	269	72	34	976
Fire-extinguishers. Automatic sprinkler for	A. M. Granger	347,033	Aug. 10	761	202, 203	36	613
Fire-extinguishers. Faucet for chemical	R. A. Ballou	348,096	Aug. 24	2306	618	36	915
Fire extinguishing and alarm system. Electric	J. W. Frost	350,126	Oct. 5	37	10, 11	37	10
Fire-extinguishing apparatus	A. Greenleaf	347,593	Aug. 17	1563	415, 416	36	770
Fire-extinguishing apparatus	W. Harkness	340,210	Apr. 20	1597	404	35	298

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fire-extinguishing apparatus	H. C. Johnson	352,192	Nov. 9	697	186	37	594
Fire-extinguishing apparatus	E. Kendall	340,127	Apr. 20	1467	371	35	274
Fire-extinguishing apparatus. Automatic	A. Thompson and R. O. Ritchie	353,766	Dec. 7	155	44	37	1036
Fire-extinguishing device	C. J. Hexamer	341,143	May 4	238	71	35	549
Fire-extinguishing projectile	W. A. Bartlett	336,981	Mar. 2	130	35	34	949
Fire-extinguishing system. Automatic	F. Gray	341,902	May 18	1287	344	35	764
Fire-fender. Folding	D. J. Daley	352,302	Nov. 9	837	225	37	620
Fire-guard burner and extinguisher. Safety	F. W. B. Smith	350,021	Sept. 28	2040	526	36	145
Fire-hydrant	J. C. Kupferle	345,790	July 20	1428	370	36	269
Fire-kindler	H. D. Henderson	347,176	Aug. 10	969	259	36	652
Fire-kindler	D. W. Johns	348,326	Aug. 31	2633	710	36	983
Fire-kindler	F. L. Stewart	342,814	June 1	53	.....	35	1016
Fire-kindler	C. E. Thompson	344,880	July 6	124	.....	36	22
Fire-kindler and fuel-block	W. R. Myers	337,782	Mar. 9	1203	313	34	1118
Fire-lining	G. Wellhouse	350,331	Oct. 5	312	89	37	63
Fire-place	A. T. Bennett	342,776	June 1	4	2	35	1007
Fire-place	E. R. Procter	334,088	Jan. 12	824	225 / 226	34	161
Fire-place	J. W. Wolfe	336,682	Feb. 23	2291	599	34	567
Fire-place attachment	S. B. Burwell	333,921	Jan. 5	579	156	34	108
Fire-place front	J. H. Sams	349,813	Sept. 28	1763	456	36	1398
Fire-place front	J. H. Sams	349,814	Sept. 28	1764	456	36	1398
Fire-place. Gas-burning	E. F. MacKusick	334,877	Jan. 26	1932	514	34	379
Fire-place guard or screen	W. S. Craft	333,925	Jan. 5	589	161	34	110
Fire-place heater	E. F. Dunaway	351,025	Oct. 19	1336	351	37	257
Fire-place hood	H. Clayton	346,267	July 27	2092	538	36	401
Fire-place or stove fender	E. Walling	344,294	June 22	2177	558	35	1423
Fire-place. Ventilating	N. Poulson	344,790	June 29	2844	736 / 737	35	1559
Fire-places, &c. Heater for	J. Trunzer	349,324	Sept. 21	1060	272	36	1257
Fire-pot	G. H. Hess	348,013	Aug. 24	2184	581 / 582	36	892
Fire-pot. Tinner's	J. Carter	336,893	Mar. 2	11	3	34	929
Fire-proof coating building material, &c. Composition of matter for	W. Schimmelpfeng	344,409	June 29	2336	.....	35	1460
Fire-proof compound	C. C. Gilman	353,629	Nov. 30	2687	.....	37	993
Fire-proof compound and articles made from the same	A. G. George	343,810	June 15	1508	.....	35	1294
Fire-proof garment	J. W. Elliot	334,360	Jan. 12	1237	332	34	237
Fire-proof post and column	C. C. Gilman	338,512	Mar. 23	2212	580	34	1347
Fireproofing compound	J. C. Emerson	344,261	June 22	2127	.....	35	1415
Fire-screen	J. T. Collins and E. B. Grant	347,091	Aug. 10	855	227	36	630
Fire-shield	G. Kelly	345,147	July 6	495	123	36	88
Fire shovel and tongs	A. P. Heidt	349,394	Sept. 21	1178	305	36	1279
Fire-signal. Rapid	T. F. Gaynor	352,645	Nov. 16	1277	345	37	711
Fire-work stand. Portable	H. C. Weeden	334,496	Jan. 19	1424	383	34	278
Fires. Apparatus for automatically extinguishing	W. H. Percival	347,194	Aug. 10	994	265	36	656
Fires in houses and vessels. Apparatus for localizing and extinguishing	P. L. Palmer	334,461	Jan. 19	1379	372	34	270
Fires in malt and grain mills. Mechanism for extinguishing	C. J. Hexamer	347,797	Aug. 24	1869	499	36	834
Fires. Preventing the obstruction of streets at	J. R. Meyers	349,051	Sept. 14	709	181	36	1181
Fish. Bait for catching	A. Wakeman	339,952	Apr. 13	1222	304	35	224
Fish-bait. Spinning	J. B. McHarg	347,122	Aug. 10	893	236	36	637
Fish-hook	P. Van Normann	345,088	July 6	404	102	36	73
Fish-hooks and other purposes. Gange or snood for	H. H. Mansfield	341,257	May 4	400	110	35	579
Fish into blocks. Machine for cutting	J. L. Shute and W. O. Taylor	346,871	Aug. 3	527	143 / 144	36	562
Fish-line reel	A. H. Dailey	335,798	Feb. 9	1010	267	34	628
Fish-line reel	M. Maguire	335,600	Feb. 9	721	192	34	577
Fish. Machine for cutting	J. J. Peard	341,682	May 11	995	263 / 264	35	700
Fish. Machine for splitting and cleaning	M. J. Palson	353,268	Nov. 23	2151	576	37	887
Fish-plate lock	M. H. Devore	340,940	Apr. 27	2614	688	35	487
Fish-trap	J. S. Johnson	355,269	Dec. 28	2347	618	37	1467
Fish-trap	T. Thompson	353,767	Dec. 7	157	44	37	1036
Fisherman's minnow-boat	F. F. Ward	336,967	Mar. 2	109	30	34	945
Fishing-float and connection therefor	E. F. Pfnneger	351,523	Oct. 26	2059	534	37	396
Fishing-fly book	T. J. Conroy	335,506	Feb. 2	579	151	34	544
Fishing-fly book	H. P. Wells	335,491	Feb. 2	559	147	34	541
Fishing-hook and device for capturing fish	J. Scotland and F. Cordon	336,953	Mar. 2	96	26	34	943
Fishing-line reel	G. L. Crandall	336,092	Feb. 16	1432	378	34	710
Fishing-line spreader	H. C. Behrens	353,412	Nov. 30	2363	629	37	932
Fishing-lines. Reel for drying	J. W. Brooks, Jr	336,888	Mar. 2	6	2	34	928
Fishing-reel	A. B. Hendryx	351,598	Oct. 26	2178	563	37	417
Fishing-reel	G. E. Medley	346,490	Aug. 3	52	13	36	470
Fishing-reel	A. F. Meisselbach	336,657	Feb. 23	2256	588	34	860
Fishing-reel	J. Vom Hofe	343,782	June 15	1474	370	35	1287
Fishing-reel drag	A. F. Meisselbach	352,926	Nov. 23	1657	445	37	793
Fishing-rod	L. L. Bartlett	337,474	Mar. 9	827	209	34	1081
Fishing rod and reel	A. H. Dailey	335,797	Feb. 9	1007	267	34	628
Fishing-rod reel	E. J. Martin	335,826	Feb. 9	1042	275	34	634
Fishing-rods. Line-guide for	R. Everett	343,602	June 15	1499	377	35	1292
Fishing-seine	C. R. Bartlett	354,763	Dec. 21	1633	432	37	1318
Fishing-seines. Catch for	G. M. McClain	343,479	June 8	1053	262	35	1205
Fishing. Snell for	F. E. Forster	337,944	Mar. 16	1434	372	34	1197
Fishing-tackle	G. Ritter	342,814	June 1	97	24	35	1024
Fishing-tackle	T. O. Lothrop	333,648	Jan. 5	198	55	34	39
Flanging-machine	R. A. Carter	350,412	Oct. 5	405	116	37	81
Flanging-machine	J. O'Brien	341,598	May 11	872	232 / 233	35	675
Flanging-machine	S. T. Williams	338,901	Mar 30	2774	730 / 731	34	1451
Flanging-tool	J. D. McDougal	344,588	June 29	2576	667	35	1504
Flasher	J. Schreiber	337,524	Mar. 9	889	227	34	1092
Flat-iron	C. E. Hauck	345,135	July 6	469	119	36	85

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Flat-iron heater	G. Benns	335,421	Feb. 2	467	120	34	525
Fleshing and unhairing machine	W. M. Hoffman	335,197	Feb. 2	157	40	34	469
Flexible joint or connection-pipe	H. Lecouteux and E. Garnier	338,848	Mar. 30	2690	709	34	1437
Flexible material. Forming articles of	I. B. Kleinert and A. C. Squires	352,330	Nov. 9	874	235	37	627
Flier	J. A. V. Smith	340,383	Apr. 20	1848	474	35	344
Flier. Speeder	J. A. V. Smith	350,782	Oct. 12	954	256	37	181
Float	A. J. Wright	340,534	Apr. 20	2053	528	35	381
Flood-gate	J. Dailey	340,293	Apr. 20	1723	439	35	320
Flood-gate	M. A. Emmons	334,420	Jan. 19	1320	357, 358	34	258
Floor and ceiling. Fire-proof	C. C. Gilman	338,513	Mar. 23	2214	581	34	1347
Floor and ceiling. Fire-proof	J. G. Meyers	354,565	Dec. 21	1334	353, 354	37	1263
Floor and wall coverings, &c. Composition for	R. F. Nenninger	342,377	May 25	1963	.....	35	895
Floor and wall coverings, &c. Manufacturing composition for	R. F. Nenninger	342,378	May 25	1964	.....	35	895
Floor-arch	C. C. Gilman	338,516	Mar. 23	2216	581	34	1347
Floor-clamp	C. F. Dearth	352,120	Nov. 9	578	154	37	574
Floor-clamp	J. P. Hill	354,418	Dec. 14	1111	298	37	1217
Floor-clamp	A. P. Moses and H. H. Hawley	340,145	Apr. 20	1494	378	35	279
Floor-clamp	B. Page	337,191	Mar. 2	414	108	34	1062
Floor-cleaning machine	J. F. Cameron	348,317	Aug. 31	2623	707	36	981
Floor. Fire-proof	C. C. Gilman	338,510	Mar. 23	2209	580	34	1346
Floor-grinding machine	J. B. Harris, Jr.	336,918	Mar. 2	51	14	34	936
Floor. Stall	P. Külme	343,821	June 15	1520	383	35	1296
Floor-washer	B. Fernandez y Rabeiro	343,019	June 1	332	85	35	1067
Floors and ceilings. Construction of fire-proof	C. C. Gilman	338,517	Mar. 23	2216	582	34	1348
Floors. Parquetry for	L Merrill	352,556	Nov. 16	1154	312	37	689
Flooring and ceiling clamp	E. A. Reed	334,611	Jan. 19	1581	421	34	306
Flooring and sheathing. Construction of	W. J. Conway	340,559	Apr. 27	2096	540	35	396
Flooring-clamp	L. G. Welch	341,708	May 11	1030	273	35	707
Flooring. Flexible	W. I. Adams and A. A. Hasson	337,292	Mar. 2	555	146	34	1028
Flooring for balconies	A. H. Lorenze	340,796	Apr. 27	2425	638	35	454
Flooring-jack	H. C. Cloyd	338,933	Mar. 30	2811	741	34	1459
Flooring. Parquet	E. F. Guérin	350,457	Oct. 5	491	138	37	94
Flour and bread. Preparing gluten	J. E. Lauer	334,245	Jan. 12	1072	.....	34	207
Flour-bolt	M. W. Clark	341,880	May 18	1254	336	35	758
Flour-bolt	K. Dougan	343,761	June 15	1451	362, 363	35	1283
Flour-bolt	J. J. and E. T. Faulkner	348,199	Aug. 31	2462	661	36	950
Flour-bolt	A. Heine	346,282	July 27	2110	543	36	404
Flour-bolt	N. W. Holt	335,454	Feb. 2	508	132, 133	34	532
Flour-bolt	A. Y. Leake	334,246	Jan. 12	1073	284	34	207
Flour-bolt	O. M. Morse	353,698	Dec. 7	61	16	37	1017
Flour-bolt	G. T. Smith	335,543	Feb. 2	627	164, 165	34	552
Flour-bolt	G. T. Smith	335,642	Feb. 9	779	206, 207	34	587
Flour-bolt	G. T. Smith	339,026	Mar. 30	2957	782	34	1484
Flour-bolt	O. H. Titus	342,146	May 18	1613	431, 432	35	824
Flour-bolt	F. G. Winkler	339,723	Apr. 13	927	227	35	169
Flour. Bolting and purifying	J. V. Davis	347,326	Aug. 17	1187	.....	36	701
Flour-bolting reel	W. C. Meyer	338,856	Mar. 30	2704	711	34	1440
Flour-chest	J. Ozenberger	350,600	Oct. 12	704	192	37	135
Flour chest and sifter	H. G. Filson	351,504	Oct. 26	2036	528	37	391
Flour-mills. Flight-extractor for screw-conveyers for	C. H. Stevenson	339,591	Apr. 6	728	179	35	127
Flour-packer	C. W. Roth	345,452	July 13	913	229, 230	36	169
Flour-packers. Register for	G. S. Walker	342,406	May 25	2003	528	35	901
Flour scoop and sifter	W. Smith	337,711	Mar. 9	1116	288	34	1132
Flour-sifter safe	S. E. Norton	352,343	Nov. 9	894	239	37	631
Flower-beds, garden-paths, &c. Movable artificial border for	W. M. Oungst	352,146	Nov. 9	625	165	37	581
Flower-beds, &c. Ornamental border for	G. W. Strickland	348,598	Sept. 7	94	27	36	1064
Flower-box. Combination	E. Bloomer	343,694	June 15	1351	337	35	1265
Flower-pin	H. L. Kranz	341,105	May 4	179	56	35	537
Flower-pot	S. L. Hunter	352,247	Nov. 9	765	204	37	606
Flower-pot machine	E. Wiesner	352,173	Nov. 9	675	180	37	589
Flower-pots. Machine for washing	R. Lewis	344,842	July 4	65	16	36	13
Flower-press	A. L. Case	346,640	Aug. 3	245	67	36	508
Flower-stand. Adjustable	Z. Walker and J. M. Smith	341,191	May 4	303	86	35	560
Flower-vase with background	R. Kift	338,845	Mar. 30	2687	708	34	1437
Flue-cap	F. E. Heinig	354,193	Dec. 14	810	215	37	1161
Flue cap and ventilator	F. E. Heinig	343,456	June 8	1022	254	35	1199
Flue-cleaner	W. E. Sidney	346,692	Aug. 3	303	83	36	520
Flue-cleaner	W. Strong	342,764	May 25	2515	672	35	996
Flue-cleaner. Adjustable steam	G. G. McLaughlin	354,204	Dec. 14	822	218	37	1164
Flue structure. Fire-proof	J. M. Sinclair	345,000	July 6	297	74	36	53
Flue thimble and stopper	W. P. Walter	348,435	Aug. 31	2784	748	36	1013
Fluid-discharging apparatus	W. T. Messinger	351,453	Oct. 26	1952	509	37	374
Fluid-discharging apparatus	W. T. Messinger	351,454	Oct. 26	1954	509	37	374
Fluid-discharging apparatus	W. T. Messinger	351,455	Oct. 26	1956	509	37	375
Fluid-gate	C. C. Burton	338,711	Mar. 30	2496	660	34	1402
Fluid-pressure motor	G. Poore, C. Ingrey, and E. Latham	345,858	July 20	1522	394	36	285
Fluid-pressure regulator	M. M. Monsanto	351,276	Oct. 19	1666	437, 438	37	317
Fluids. Apparatus for lifting and controlling the flow of	W. T. Messinger	334,793	Jan. 26	1828	488	34	361
Fluids in definite proportions. Commingling flowing	L. H. Nash	353,704	Dec. 7	73	19, 20	37	1020
Fluids in definite proportions. Device for commingling flowing	L. H. Nash	353,705	Dec. 7	75	20, 21	37	1020
Flush-tank	J. Wilson	354,000	Dec. 7	508	137	37	1099

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Flush tank and siphon	B. Van Vranken	340,836	Apr. 27	2477	652	35	463
Flushing device	J. W. McArdell	348,682	Sept. 7	210	55	36	1085
Flushing-tank	C. W. Atkinson and R. Murphy	354,456	Dec. 14	1169	312	37	1227
Flushing-tank	J. E. Boyle	346,261	July 27	2085	536 / 537	36	400
Flushing-tank	A. Rosewater	343,069	June 1	415	106	35	1082
Flushing-tank	A. Rosewater	343,853	June 15	1562	396	35	1304
Flushing-tank. Periodical	J. E. Boyle	354,624	Dec. 21	1434	380	37	1280
Fluting and smoothing iron. Combined	H. Reuter	336,435	Feb. 16	1939	508	34	800
Fly. Artificial	W. Holberton	341,331	May 4	560	140	35	597
Fly-book	C. G. Levison	337,593	Mar. 9	973	249	34	1108
Fly-catcher	Z. F. Xevers	351,727	Oct. 26	2350	611	37	449
Fly-screen	E. J. Webb	340,840	Apr. 27	2482	653	35	463
Fly-trap	C. Anderson	340,471	Apr. 20	1962	504	35	365
Fly-trap	J. W. Levy	353,076	Nov. 23	1877	507	37	832
Fly-trap	J. M. Perry	339,685	Apr. 13	870	213	35	160
Fly-trap	B. Sanford	333,676	Jan. 5	237	65	34	46
Fly-trap	E. Tschira, Jr	345,817	July 20	1466	379	36	276
Fodder-block	E. F. Dieterichs	355,257	Dec. 28	2333	.....	37	1465
Fodder-cutter	P. S. Rich	341,770	May 11	1105	293	35	721
Fodder-cutter	D. Swanger	352,960	Nov. 23	1704	458	37	800
Foil-condenser	W. H. Pomeroy	345,724	July 20	1332	345	36	253
Folding and creasing machine	J. Tickle and F. Leonardt	341,361	May 4	547	150 / 151	35	603
Folding apparatus. Rotary	G. A. Wilson	345,352	July 13	767	192	36	144
Folding box	G. Adler	347,761	Aug. 24	1821	485	36	825
Folding box	J. R. Cole	343,757	June 15	1447	361	35	1282
Folding box	W. Goodbody	345,398	July 13	697	175	36	131
Folding box or crate	E. Harris	334,375	Jan. 12	1250	337	34	239
Folding chair	J. W. Mason	345,710	July 20	1308	338	36	249
Folding chair	P. Nöel	335,037	Jan. 26	2147	571 / 572	34	417
Folding clothes-bar	L. Pearson	351,999	Nov. 2	395	108	37	532
Folding gate	W. R. Pitt	352,660	Nov. 16	1303	351	37	716
Folding gate	R. M. Wilson	351,084	Oct. 19	1413	371	37	270
Folding-machine	D. Appel	340,080	Apr. 20	1406	355 / 356	35	263
Folding-machine	C. Baillie	337,914	Mar. 16	1384	359 / 360	34	1188
Folding-machine	E. P. Donnell	337,937	Mar. 16	1420	357	34	1194
Folding machine. Strip-	D. E. Marsh and A. Laubscher	351,452	Oct. 26	1950	508 / 509	37	374
Folding rack	L. F. Palmer	347,732	Aug. 17	1775	473	36	808
Folding screen	H. C. Tripp	354,450	Dec. 14	1157	309 / 310	37	1225
Folding table	H. T. Birchard	340,087	Apr. 20	1416	358	35	264
Folding table	J. T. Bon	333,500	Jan. 5	6	2, 3	34	4
Folding table	T. A. Bunce	346,145	July 27	1919	495	36	368
Folding table	E. E. Conwell	353,923	Dec. 7	393	104	37	1079
Folding table	J. E. Cotton	345,620	July 13	1166	300	36	216
Folding table	R. Decker	346,027	July 20	1761	453	36	328
Folding table	D. A. Fay	338,835	Mar. 30	2676	704	34	1434
Folding table	J. P. Gage	334,946	Jan. 26	2019	538	34	395
Folding table	A. Gesecn and J. Tyler	348,733	Sept. 7	270	73	36	1097
Folding table	L. H. and D. W. Goodnow	348,201	Aug. 31	2466	662	36	950
Folding table	A. L. Hines	344,834	July 6	42	10	36	6
Folding table	S. C. Hopkins	336,717	Feb. 23	2327	610	34	875
Folding table	A. B. Jones	346,660	Aug. 3	267	73	36	513
Folding table	W. J. Newcomb	353,459	Nov. 30	2430	648	37	946
Folding table and stool	F. B. Hills	351,637	Oct. 26	2235	578	37	427
Food compound	P. B. Rose	351,404	Oct. 26	1885	.....	37	361
Food for animals. Preparing	C. H. Voigt	336,965	Mar. 2	107	.....	34	945
Food-warmer or night-light apparatus. Infant's	S. Clarke	334,747	Jan. 26	1775	472	34	350
Foot-covering	S. B. Guernsey	342,438	May 25	2047	540	35	909
Foot-lights. Extinguishing device for	H. Funk	344,776	June 29	2820	731	35	1549
Foot-power machine	W. L. Perry	338,437	Mar. 23	2113	553	34	1328
Foot-power stand	C. E. Stevens	354,446	Dec. 14	1153	308	37	1224
Foot-press	W. J. Bayrer	346,141	July 27	1915	494	36	367
Foot-rest	T. A. Kochs	335,594	Feb. 9	714	190	34	575
Foot-rest. Adjustable	S. G. Scarritt	341,351	May 4	530	146	35	600
Foot-tub	A. H. Perkins	335,838	Feb. 9	1062	280	34	638
Foot-warmer	M. W. Hanley	339,764	Apr. 13	881	242	35	179
Foot-wiper or boot and shoe cleaner	W. O. Freytag	350,879	Oct. 12	1100	293	37	398
Forceps. Digital	S. R. Wilcox	338,324	Mar. 23	1951	513	34	1301
Forceps, pinchers, &c. Die for making joints of	A. Brüstle and A. Siegel	346,578	Aug. 3	162	44	36	491
Forge	C. Weber	336,074	Feb. 9	1394	368	34	696
Forge for welding and forging iron, steel, and other metallic bodies. Furnace-	A. C. Huide-koper, L. Mambourg, U. Houze, and D. S. Dockstader.	347,875	Aug. 24	1990	527	36	856
Forge. Portable	F. M. Roots	349,360	Sept. 21	1130	291	36	1270
Forging apparatus	R. Bagaley	350,338	Oct. 5	319	91	37	65
Forging axles. Die for	J. Kritch	337,504	Mar. 9	863	218	34	1087
Forging plant	W. Hainsworth	352,314	Nov. 9	855	230 / 231	37	623
Forging-press. Hydraulic	R. H. Tweddell, J. Platt, and J. Fielding.	336,604	Feb. 23	2168	567	34	845
Forging shifting-rails. Die for	A. Walter	353,100	Nov. 23	1918	514	37	841
Forging wrench-heads. Die for	G. F. Evans	352,528	Nov. 16	1118	302	37	683
Forgings. Die for making rolled	G. F. Simonds	348,790	Sept. 7	339	91	36	1110
Forgings. Die for making rolled	G. F. Simonds	352,365	Nov. 9	917	246	37	636
Forgings, ingots, &c. Tool for handling	E. Kerr	352,696	Nov. 16	1354	366	37	726
Fork: *See* Agricultural fork. Carving-fork. Clothes-fork. Hay-fork. Hay-elevating fork. Laundry-fork.							
Fork	T. Schmitz	350,605	Oct. 12	713	194	37	137

Alphabetical list of inventions—Continued.

Invention.	Name	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fork-drill	C. Snedekum	337,351	Mar. 2	628	165	34	1042
Forks. Making	T. E. Wawrinsky	334,551	Jan. 19	1503	402	34	291
Fountain:							
See Aerated-water fountain.							
Printing-machine ink-fountain.							
Parlor-fountain.							
Fracture apparatus	A. S. Aloe	340,971	May 4	2	1	35	505
Fracture apparatus	W. Bunce	350,526	Oct. 12	597	165	37	116
Fracture apparatus	W. W. Galt	339,160	Apr. 6	60	19	35	14
Frame:							
See Ash-pit frame.							
Picture-frame.							
Awning-frame.							
Pulley-frame.							
Bag or satchel frame.							
Quilting-frame.							
Banjo-frame.							
Rock-drill frame.							
Clock-movement frame.							
Saw-frame.							
Show-frame.							
Clothes-line frame.							
Skylight-frame.							
Counter-shaft frame.							
Slate-frame.							
Drill-frame.							
Sling-shot frame.							
Drying-house frame.							
Slubbing or roving frame.							
Embroidery-frame.							
Soap-frame.							
Eyeglass-frame.							
Spinning-frame.							
Glass-cutting frame.							
Stencil-frame.							
Harvester-frame.							
Stock or hay frame.							
Lantern-frame.							
Track-drill frame.							
Mirror-frame.							
Trimming-frame.							
Neck-wear frame.							
Weft and warp spinning frame.							
Paper packing-frame.							
Window-frame.							
Frame for draping fringe, &c	L. N. Bachand	334,413	Jan. 19	1307	354	34	256
Frame-joint fastener	W. Cutts	349,631	Sept. 21	1491	386	36	1341
Fr ezing-mixture	F. A. Schwill	343,860	June 15	1571	.....	35	1306
Freezing or refrigerating machine	J. Csete	340,031	Apr. 13	1336	334 335	35	244
Freight. Apparatus for handling	L. Graff	338,951	Mar. 30	2835	748	34	1464
Freight-handling mechanism	D. Stretch	350,704	Oct. 12	853	230	37	162
Friction-coupling	O. Kromer	344,320	June 22	2206	567	35	1429
Fringe. Manufacturing chenille	S. Steinecke	353,433	Nov. 30	2392	638	37	938
Fringe-reel	W. Schwab and A. Hess	346,321	July 27	2168	556	36	415
Frizzing-machine	J. Kuehnle	345,514	July 13	998	253	36	185
Frog and switch. Safety	C. Buhrer	336,549	Feb. 23	2094	551	34	832
Frog. Spring	D. H Lovell	338,177	Mar. 16	1754	458	34	1258
Frogless switch	A. Culp	350,662	Oct. 12	800	217	37	153
Frogless switch	C. B. Price	353,002	Nov. 23	1767	475 476	37	813
Fruit and flower picker and holder	T. C. Stark	348,357	Aug. 31	2668	719	36	990
Fruit. Artificial	M. Ginoris	340,870	Apr. 27	2523	664	35	471
Fruit-basket cover	J. H. Marvil	338,179	Mar. 16	1757	459	34	1258
Fruit-basket cover	F. Springhorn	342,851	June 1	104	26	35	1025
Fruit-conveyer	M. N. Gaines	345,891	July 20	1571	405	36	294
Fruit-drier	H. R. Burner and J. C. Anderson	340,480	Apr. 20	1972	507	35	367
Fruit-drier	C. F. B. Caspari	342,243	May 18	1733	460 461	35	847
Fruit-drier	J. R. Deadmore	344,637	June 29	2646	684	35	1518
Fruit-drier	A. J. Hatch	335,351	Feb. 2	373	97	34	508
Fruit-drier	A. J. Hatch	339,767	Apr. 13	983	243	35	180
Fruit-drier	H. S. Jory	339,557	Apr. 6	657	159	35	118
Fruit-drier	C. W. Kitts	345,701	July 20	1296	335 336	36	246
Fruit-drier	W. S. Plummer	343,607	June 15	1228	308	35	1244
Fruit-drying rack	J. M. Springer	333,897	Jan. 5	540	147	34	101
Fruit-evaporator	A. C. Penniman	349,450	Sept. 21	1256	325	36	1294
Fruit-extractor	J. K. Strang	344,506	June 29	2473	635	35	1484
Fruit, flowers, &c. Device for picking	J. S. Langhorne	337,168	Mar. 2	383	100	34	996
Fruit-gatherer	E. Probst	343,490	June 8	1065	266	35	1207
Fruit-gatherer	J. N. Rudd	338,303	Mar. 23	1919	505	34	1295
Fruit-gatherer	C. L. Yates	351,824	Nov. 2	131	36	37	483
Fruit-gathering shears	L. H. Titus	354,363	Dec. 14	1050	281	37	1206
Fruit-jar	D. E. Ashby	333,715	Jan. 5	308	84	34	58
Fruit-jar	D. E. Ashby	333,716	Jan. 5	309	84	34	58
Fruit-jar	D. E. Ashby	333,717	Jan. 5	310	85	34	58
Fruit-jar	W. P. Coldren	336,552	Feb. 23	2098	552	34	833
Fruit-jar	G. D. Corey	349,630	Sept. 21	1490	386	36	1341
Fruit-jar	G. Darracott	353,926	Dec. 7	395	105	37	1079
Fruit-jar	E. A. De Steiger	336,800	Feb. 23	2437	641	34	895
Fruit-jar	J. L. and E. A. De Steiger	340,428	Apr. 20	1897	487	35	353
Fruit-jar	O. Gerow	342,250	May 18	1743	463	35	848
Fruit-jar	J. McMillen	341,341	May 4	517	142	35	599
Fruit-jar	T. G. and J. H. Otterson	338,185	Mar. 16	1764	460	34	1259
Fruit-jar	P. K. Reeves	342,384	May 25	1971	520	35	896
Fruit-jar	M. O. Rehfuss	353,503	Nov. 30	2497	666	37	958
Fruit-jar	H. E. Shaffer	340,625	Apr. 27	2187	576	35	411
Fruit-jar	H. Wilcox	335,330	Feb. 2	342	89	34	502
Fruit-jars. Clamp for holding	T. Kenderdine	354,705	Dec. 21	1545	409	37	1302
Fruit-lifter	J. E. Coles	352,736	Nov. 16	1402	379	37	737
Fruit. Packing-box for transporting ripe	S. T. Jenkins and T. J. McGuire	346,162	July 27	1942	500	36	372
Fruit. Pail for gathering	F. A. Brundage	347,918	Aug. 24	2050	544	36	867
Fruit-picker	H. H. C. Arnold	353,110	Nov. 23	1928	517	37	844
Fruit-picker	A. Green	353,304	Nov. 30	2205	590	37	903
Fruit-picker	G. S. Hill	339,549	Apr. 6	647	157	35	117
Fruit-picker	W. B. Mayfield	347,495	Aug. 17	1427	379	36	744
Fruit-picker	L. Strong and A. B. Smith	334,486	Jan. 19	1416	381	34	276
Fruit-picker	W. F. Ziegler	338,010	Mar. 16	1531	397	34	1214
Fruit-pulper	F. W. Bradley	343,754	June 15	1445	360	35	1282

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Fruit-wrapping machine	W. E. Rice	336,823	Feb. 23	2469	648, 649	34	901
Frying-pan	T. O. Inman	334,867	Jan. 26	1921	511	34	377
Frying-pan and baker	H. C. Crawford and E. V. Mundy	347,093	Aug. 10	858	227	36	630
Frying-pan draft attachment	W. Simmons and J. F. Sprague	333,894	Jan. 5	537	146	34	100
Fuel. Apparatus for burning gaseous	F. Philips	337,516	Mar. 9	880	223, 224	34	1090
Fuel. Apparatus for making and burning gaseous	J. Locke and S. O. Richardson, Jr.	349,228	Sept. 14	953	243	36	1226
Fuel apparatus. Vapor-	A. I. Ambler	338,461	Mar. 23	2142	560, 561	34	1335
Fuel apparatus. Vapor-	A. I. Ambler	341,308	May 4	480	129, 130, 131	35	592
Fuel. Artificial	F. S. Dimon	345,217	July 6	573	146	36	104
Fuel-block and fire-kindler	J. B. Adams	344,891	July 6	137	.....	36	25
Fuel. Composition of matter for	H. Prinzhorn	352,889	Nov. 16	1604	.....	37	774
Fuel compound	C. Siedhof	345,329	July 13	735	.....	36	139
Fuel. Device for the conduction of liquid	C. L. Mitchell	351,391	Oct. 26	1842	483	37	355
Fuel. Device for the consumption of liquid	C. L. Mitchell	351,390	Oct. 26	1838	482, 483	37	354
Fuel-economizer	A. Lowcock and T. Sykes	334,533	Jan. 19	1472	395	34	286
Fuel-economizers. Lid or cover for	E. Green	341,233	May 4	372	102	35	573
Fuel. Feeding	J. T. Corbett	340,101	Apr. 20	1433	362	35	267
Fuel. Feeding fine	W. Rogers	338,105	Mar. 16	1661	432	34	1238
Fuel for the development of steam. Combustion of fluid	L. W. Serrell	338,883	Mar. 30	2740	721, 722	34	1446
Fuel. Machine for pressing hay, &c., for	G. W. Elliott	346,470	Aug. 3	29	7	36	466
Fuel. Mechanism for burning fine	W. A. Barnes	345,019	July 6	320	81	36	58
Fumigator	J. Watson	352,282	Nov. 9	812	217	37	615
Funeral-advertising device or announciator	J. E. Grosjean	351,862	Nov. 2	194	54	37	494
Funnel	F. Catlin	334,564	Jan. 19	1521	407	34	294
Funnel	H. Van Kammen	343,871	June 15	1583	403	35	1309
Funnel attachment	J. Charlton and L. Lynch	346,265	July 27	2090	538	36	400
Funnel for forcing molasses, &c	H. Henke	335,452	Feb. 2	506	132	34	532
Funnel-stand	J. S. and J. C. Colburn	351,578	Oct. 26	2145	555	37	411
Fur collar and muff. Combined	J. György	345,632	July 13	1190	305	36	220
Fur for felting. Preparing	E. Tweedy, H. L. Brevoort, and I. L. Roberts.	339,348	Apr. 6	339	.....	35	64
Fur for felting. Preparing	E. Tweedy, H. L. Brevoort, and I. L. Roberts.	339,349	Apr. 6	340	.....	35	64
Fur for felting. Preparing	E. Tweedy, H. L. Brevoort, and I. L. Roberts.	339,350	Apr. 6	341	.....	35	64
Fur for felting. Preparing	E. Tweedy, H. L. Brevoort, and I. L. Roberts.	339,351	Apr. 6	342	.....	35	64
Fur skirt	P. Weinberg and L. Clark, Jr.	353,103	Nov. 23	1922	515	37	842
Fur to prepare it for felting. Treating	E. Tweedy, H. L. Brevoort, and I. L. Roberts.	339,353	Apr. 6	344	.....	35	64
Fur to prepare it for felting. Treating	E. Tweedy, H. L. Brevoort, and I. L. Roberts.	339,354	Apr. 6	345	.....	35	64
Fur. Treating	W. E. Doubleday	350,455	Oct. 5	490	.....	37	94
Fur with prepared oxidizing-vapors. Treating	E. Tweedy, H. L. Brevoort, and I. L. Roberts.	339,352	Apr. 6	343	.....	35	64
Furs. Taping	C. Theinert	354,362	Dec. 14	1048	280	37	1205
Furnace:							
See Bagasse-furnace.							
Baking-furnace.							
Blacksmith's furnace.							
Blast-furnace.							
Boiler-furnace.							
Gas-furnace.							
Glass-melting furnace.							
Heating-furnace.							
Heating and melting furnace.							
Heating and puddling furnace.							
Hot-air furnace.							
Locomotive-furnace.							
Metallurgical furnace.							
Nail-plate furnace.							
Ore-roasting furnace.							
Plumber's furnace.							
Portable furnace.							
Regenerative heating-furnace.							
Roasting and smelting furnace.							
Smoke and gas consuming furnace.							
Smoke-consuming furnace.							
Smoke-preventing furnace.							
Steam-boiler furnace.							
Steam-generator furnace.							
Tinner's furnace.							
Tire-heating furnace.							
Vapor-burning furnace.							
Warm-air furnace.							
Furnace	R. B. Ayres	345,611	July 13	1154	295, 296	36	214
Furnace	S. Bissell	335,558	Feb. 9	659	174	34	565
Furnace	J. B. Boulicault and J. Lehnbeuter	335,176	Feb. 2	129	32	34	464
Furnace	R. F. Brown	348,885	Sept. 7	471	124	36	1134
Furnace	G. A. Clark	333,995	Jan. 12	683	187	34	136
Furnace	G. A. Colby	341,883	May 18	1260	338	35	759
Furnace	J. Eppley	348,116	Aug. 24	2328	624, 625	36	919
Furnace	C. H. Grewcox and F. Yeiter	340,502	Apr. 20	2009	515, 516	35	374
Furnace	C. H. Grewcox and F. Yeiter	353,216	Nov. 23	2080	556	37	873
Furnace	E. G. Hewitt	345,971	July 20	1675	433	36	314
Furnace	E. G. Hewitt	345,972	July 20	1677	434	36	314
Furnace	E. E. Jones	344,317	June 22	2202	566	35	1498
Furnace	W. Kent	340,584	Apr. 27	2132	551	35	403
Furnace	J. A. Langdon	341,253	May 4	393	108	35	578
Furnace	A. J. Lennox and J. Krepp	335,367	Feb. 2	395	101, 102	34	512
Furnace	H. B. Meech	341,033	May 4	81	22	35	520
Furnace	J. N. Moerath	353,230	Nov. 23	2096	561	37	877
Furnace	A. H. Pegg	345,536	July 13	1052	268	36	195

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Furnace	T. Poore	335,621	Feb. 9	749	200	34	582
Furnace	J. Springer	336,765	Feb. 23	2392	627	34	888
Furnace	H. Wilcke	345,014	July 6	314	79	36	57
Furnace	J. H. Weltmyer	353,474	Nov. 30	2451	654	37	949
Furnace and grate	W. P. Thompson	335,658	Feb. 9	798	213	34	591
Furnace hosh-jackets. Method of and apparatus for cooling	J. L. McMichael	349,513	Sept. 21	1339	348	36	1311
Furnace-door	M. N. Forney	354,631	Dec. 21	1441	382, 3-3	37	1282
Furnace-door	J. A. Roney	338,616	Mar. 23	2349	617, 618	34	1370
Furnace for burning fine coal	A. Hardt	340,781	Apr. 27	2403	633	35	449
Furnace for heating glass pots, crucibles, blanks, &c.	M. W. Barse	345,336	July 13	775	194	36	145
Furnace for melting metal in crucibles. Gas-	H. H. Garrett	343,122	June 1	500	127	35	1096
Furnace for precious metals	C. L. Hartsfeld	338,265	Mar 23	1867	490, 491	34	1286
Furnace for reducing and distilling zinc from its ores.	C. H. Murray	333,967	Jan. 5	640	176	34	121
Furnace for steam-engines and other purposes	E. Fales	342,590	May 25	2262	600	35	949
Furnace-grate	W. Haslam	352,318	Nov. 9	862	232	37	624
Furnace-grate	S. H. Huntington	352,692	Nov. 16	1350	364	37	725
Furnace grate	H. Lencke	353,689	Dec. 7	50	13	37	1016
Furnace-grate	P. W. Lippitt	345,792	July 30	1430	370	36	270
Furnace-grate	M. Mahony	346,115	July 27	1867	482	36	358
Furnace-grate	C. T. Schoen	354,248	Dec. 14	882	233	37	1174
Furnace-grate	J. W. Shaw	337,527	Mar. 9	894	228	34	1003
Furnace-grate	J. Voegtle	354,523	Dec. 14	1267	339	37	1244
Furnace-grate.	J. Walrath	347,214	Aug. 10	1022	272	36	661
Furnace-grate. Dumping	T. Bergner	349,423	Sept. 21	1216	316	36	1286
Furnace-linings. Repairing	H. Kennedy	350,981	Oct. 19	1248	332	37	241
Furnace-stoker	T. Craney	344,631	June 29	2640	683	35	1517
Furnaces. Air-injector for	E. B. Cornell	353,351	Nov. 30	2270	606	37	914
Furnaces and stoves. Fire-grate for	J. M. Thatcher	339,235	Apr. 6	172	44, 45	35	33
Furnaces and stoves. Heating attachment for	J. T. Greenwood	334,429	Jan. 19	1331	360	34	261
Furnaces. Apparatus for charging blast-	J. M. Gettel, H. C. Grittinger, and J. H. Killinger.	350,534	Oct. 12	605	167, 168	37	117
Furnaces. Ash-pit for	C. T. Schoen	347,522	Aug. 17	1464	389	36	750
Furnaces. Basic lining for open-hearth steel and iron.	W. F. Batho	339,360	Apr. 6	351	85	35	66
Furnaces by compressed air. Working	C. Otto	352,423	Nov. 9	990	267	37	651
Furnaces. Desiccating the air-supply for	C. Cochrane	341,316	May 4	491	133	35	594
Furnaces. Device for feeding fuel to	E. Fales	342,082	May 18	1536	410, 411	35	810
Furnaces. Feeding air to	J. Ashcroft	347,549	Aug. 17	150	399	36	758
Furnaces. Fire-bar for liquid-fuel	J. F. Backlund	338,690	Mar. 30	2462	649, 650	34	1395
Furnaces. Fire-door for	J. B. F. Herreshoff	342,511	May 25	2164	573	35	929
Furnaces. Gas and air port for regenerative	W. Hackney and J. W. Wailes	340,853	Apr. 27	2525	665	35	471
Furnaces. Register-box for hot air	A. S. Estabrook	343,575	June 15	1188	299	35	1236
Furnaces. Shaking-grate for	C. Scheef	338,305	Mar. 23	1922	506	34	1296
Furnaces. Tapping hole for	G. W. Goetz	334,015	Jan. 12	710	195	34	141
Furnaces. Utilizing the waste heat of	S. M. Lillie	339,669	Apr. 13	839	207	35	155
Furniture. Article of	J. G. Wolff	335,667	Feb. 9	816	214	34	595
Furniture-clamp	C. Joseph	339,061	Mar. 30	3003	794	34	1491
Furniture. Covered frame for	H. Heywood	333,628	Jan. 5	170	46	34	33
Furniture-handle	W. R. Taylor	337,889	Mar. 16	1350	351	34	1181
Furniture. Household	W. Beale	339,614	Apr. 13	764	189	35	141
Furniture. Household	J. C. Cary	345,769	July 20	1402	363	36	265
Furniture-pad	W. H. Hertz	351,509	Oct. 26	3042	530	37	392
Furniture-pad	P. W. Pratt	336,346	Feb. 16	1818	477	34	776
Furniture. Rocking	A. G. Wicker	348,809	Sept. 7	363	98	36	1115
Furniture. School-	J. C. Camburn	350,803	Oct. 12	997	267	37	188
Furniture-spring	O. S. and W. S. Foster	343,022	June 1	335	86	35	1068
Furniture support	C. M. Plum	350,390	Oct. 5	380	110	37	76
Furniture. Wooden fringe for	F. P. Brooks	343,982	June 22	1731	445	35	1344
Furniture. Woven-cord	L. P. Nelson	342,836	June 1	86	21, 22	35	1022
Furrower and coverer	J. Reuther	351,938	Nov. 2	307	85, 86	37	514
Fuse. Electric shell-	E. L. Zalinski	341,536	May 11	790	210	35	660
Fuse for blasting. Electric	J. P. A. Scola	347,013	Aug. 10	736	195	36	608
Fuse for shells. Percussion-	J. M. Bowyer	348,314	Aug. 31	2620	706	36	981
Fusible plug	W. H. Bailey	343,218	June 8	647	161	35	1133
Gaff-clamp	C. W. Brink	349,834	Sept. 28	1793	463	36	1405
Gag-runner	W. V. Kay	342,105	May 18	1569	419	35	815
Gag-runner	G. L. Smith	351,812	Nov. 2	116	32	37	480
Gag-runner and rosette-fastening. Combined	E. Covert	350,043	Sept. 28	2061	533	36	1456
Gage: *See* Angle-gage. Axle-gage. Buffing-wheel gage. Dental articulator-gage. Gas-test gage. Glass-cutting gage. Level, plumb, and angle-gage. Machine-table gage. Marking-gage. Micrometer-gage. Micrometer pipe-gage. Panel-gage. Paper-cutter gage. Planer-knife gage. Plow-gage. Pressure-gage. Printing-machine sheet-gage. Ring-gage. Saw-gage. Saw-table gage. Scissors cutting-gage. Sewing-machine gage. Siding-gage. Sirup-gage. Slitting-gage. Steam and water gage. Surface-gage. Surface and planer gage. Track-gage. Water-gage. Weather-board gage. Weather-boarding gage.							
Gage	J. E. Montgomery and W. C. Hatcher	340,592	Apr. 27	2142	554	35	405
Gage	H. Plante	336,742	Feb. 23	2361	618	34	881
Gage	C. P. Schmidt	349,523	Sept. 21	1355	352	36	1314

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Gage	H. V. Vogt	339,033	Mar. 30	2966	785	34	1485
Gage and clamp for weather-boarding, &c	W. Ervin	334,363	Jan. 12	1241	334	34	237
Gage-knife	P. Jordan	343,522	June 8	1099	276	35	1213
Gage-pin	E. L. Megill	341,036	May 4	84	24	35	521
Gage-wheel and colter. Combined	H. A. Crossley	336,475	Feb. 16	1993	522	34	808
Gages. Face-plate for marking	J. A. Traut	334,308	Jan. 12	1163	311	34	224
Galley-stick. Compositor's	L. K. Johnson	342,442	May 25	2053	541	35	911
Galvanic batteries. Connection for	G. F. De Solomé	344,947	July 6	206	53	36	38
Galvanic batteries. Manufacture of earthenware tanks or cells for	F. W. Meeker	334,027	Jan. 12	735	201	34	145
Galvanic battery	H. J. Brewer	337,477	Mar. 9	831	210	34	1081
Galvanic battery	H. J. Brewer	346,395	July 27	2268	581	36	434
Galvanic battery	G. F. De Solomé	344,946	July 6	204	53	36	38
Galvanic battery	T. Erhard	346,032	July 20	1769	455	36	329
Galvanic battery	E. M. Gardner	342,508	May 25	2161	572	35	928
Galvanic battery	W. L. Gates	344,523	June 29	2498	644	35	1488
Galvanic battery	W. C. Goldner	348,901	Sept. 7	494	131	36	1138
Galvanic battery	A. C. Harris	341,907	May 18	1293	346	35	765
Galvanic battery	B. Jarriant	349,222	Sept. 14	936	240	36	1224
Galvanic battery	F. L. Lathrop	334,788	Jan. 26	1820	485	34	359
Galvanic battery	W. W. Le Grande	346,207	July 27	2006	517	36	384
Galvanic battery	E. J. Leland	352,877	Nov. 16	1589	429	37	771
Galvanic battery	C. E. Piper	349,600	Sept. 21	1454	374	36	1333
Galvanic battery	A. H. and A. W. Roovers	336,352	Feb. 16	1827	479	34	778
Galvanic battery	J. Serson	338,194	Mar. 16	1775	463	34	1362
Galvanic battery	H. Walter	342,407	May 25	2004	529	35	902
Galvanic battery. Primary	C. E. O'Keenan	354,434	Dec. 14	1132	304	37	1221
Galvanic body-wear	J. Mayer	334,879	Jan. 26	1934	515	34	379
Galvanic cells. Regenerating exhausted	W. E. Case	344,346	June 29	2248	.....	35	1443
Galvanometer	O. E. Lundstedt	338,178	Mar. 16	1755	459	34	1258
Game	M. D. Bullock	346,892	Aug. 10	561	151	36	577
Game	C. E. Tranchell	351,137	Oct. 19	1483	388	37	284
Game apparatus	H. Meelhausen	342,117	May 18	1581	422	35	818
Game apparatus	L. Nance	341,344	May 4	521	{143 / 144}	35	599
Game apparatus	F. P. Stiker	343,088	June 1	446	113	35	1088
Game apparatus	A. F. A. Vogelsang	333,703	Jan. 5	283	77	34	54
Game apparatus	A. F. A. Vogelsang	336,179	Feb. 16	1568	413	34	732
Game apparatus. Parlor	W. M. Baxter	353,114	Nov. 23	1932	518	37	844
Game-board	I. A. Bush	352,116	Nov. 9	570	151	37	573
Game-board	B. R. Codwise	340,980	May 4	14	4	35	507
Game-board	C. O. Hayward and D. J. Haven-strite.	345,430	July 13	884	220	36	165
Game-board	A. E. Seliger	343,496	June 8	1072	268	35	1208
Game-board and sectional stand	F. C. Robinson	335,775	Feb. 9	978	259	34	622
Game-carrier	J. H. Stevens	349,465	Sept. 21	1276	331	36	1298
Game-counter	J. A. Brittain	347,467	Aug. 17	1399	370	36	737
Game-counter	W. B. Carpenter	350,577	Oct. 12	672	183	36	129
Game marker. Field	A. Gutzloe	335,579	Feb. 9	690	182	34	571
Game. Mechanical	A. Durham	352,971	Nov. 23	1721	462	37	804
Game of base-ball. Parlor	J. H. Gaffney	347,704	Aug. 17	1740	464	36	802
Game. Parlor base-ball	J. S. Aydelott	336,076	Feb. 16	1405	372	34	705
Game-pin	H. E. Terrell	343,867	June 15	1579	402	35	1306
Game-protector	E. S. Hawks	346,748	Aug. 3	370	99	36	533
Game. Puzzle	A. B. Harris	347,596	Aug. 17	1571	417	36	771
Game-table	C. and G. Merkel	352,555	Nov. 16	1153	311	37	689
Game-table	T. T. Sturges	344,062	June 22	1850	475	35	1365
Game-table	C. S. Tilt	351,668	Oct. 26	2273	588	37	435
Games. Device for playing	E. J. Lace	343,541	June 8	1126	284	35	1218
Garbage-destroyer	A. K. Brown	338,134	Mar. 16	1695	441	34	1245
Garden implement	W. J. Rankins	348,774	Sept. 7	322	86	36	1107
Garden. Roof	C. C. Gilman	342,595	May 25	2270	602	35	950
Garden-table	P. Leistner	338,986	Mar. 30	2886	763	34	1471
Garment-clasp	J. E. Randell	352,778	Nov. 16	1452	391	37	745
Garment-clasp	D. Rosado	349,903	Sept. 28	1878	485	36	1432
Garment. Combination	A. W. Mensor	339,571	Apr. 6	679	165	35	122
Garment-fastening	A. Walther and M. Supple	340,644	Apr. 27	2220	582	35	417
Garment-fastening device	S. Blumenkrohn	351,620	Oct. 26	2206	570	37	422
Garment-hanger	M. H. Cazier	347,569	Aug. 17	1532	407	36	764
Garment-holder and stocking-supporter	F. W. Lowe	343,824	June 15	1523	384	35	1297
Garment-lock	A. Ponten	339,208	Apr. 6	133	35	35	26
Garment-pattern	C. S. Pusey	347,888	Aug. 24	2007	532	36	859
Garment. Protective	G. W. Hill	345,899	July 20	1580	408	36	296
Garment-stand	O. Borchert	344,516	June 29	2488	640	35	1486
Garment-supporter	G. F. Atwood	345,205	July 6	555	142	36	101
Garment-supporter	W. L. Braddock	346,262	July 27	2056	537	36	409
Garment-supporter	A. B. Butler	338,218	Mar. 16	1806	471	34	1367
Garment-supporter	S. C. Chase	351,163	Oct. 19	1517	397	37	291
Garment-supporter	W. E. Clarke	347,871	Aug. 24	1982	525	36	854
Garment-supporter	F. A. Ellery	343,630	June 15	1257	316	35	1249
Garment-supporter	J. C. Jensen and F. A. Johnson	352,325	Nov. 9	869	234	37	626
Garment-supporter	J. H. Pilkington	341,348	May 4	527	145	35	600
Garment-supporter	S. Porter	342,708	May 25	2436	647	35	981
Garment-supporter	C. A. Preston	352,888	Nov. 16	1603	432	37	774
Garment-supporter	H. A. Seymour	337,997	Mar. 16	1516	392	34	1211
Garment-supporter	E. Thompson	334,307	Jan. 12	1162	311	34	224
Garment-supporter	T. Tillotson	343,408	June 8	948	237	35	1187
Garment-supporter	S. Wales	348,873	Sept. 7	449	119	36	1130
Garment-supporter	E. E. West	342,489	May 25	2117	559	35	922
Garment-supporting clasp	J. T. Atwood	333,495	Jan. 5	1	1	34	3
Garment. Under	F. B. Brown	352,393	Nov. 9	955	255	37	644
Garments. Stiffening and distending spring for	V. H. Bradbmann	344,767	June 29	2816	737	35	1547
Garter	C. C. Shelby	352,010	Nov. 2	407	110	37	534
Garter	W. S. Wardwell. (Reissue)	10,783	Nov. 16	1631	438	37	780

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gas. Air-mixer for	J. L. Brown	353,843	Dec. 7	271	72	37	1056
Gas and obtaining ammonia and other products therefrom. Purifying coal-	C. F. Claus	337,246	Mar. 2	484	127	34	1015
Gas and steam generator combined	J. B. Archer	341,625	May 11	912	242	35	683
Gas and stench trap. Sewer-	T. Shehan	340,255	Apr. 20	1669	424	35	310
Gas apparatus	G. W. Gogin and G. Jones	336,912	Mar. 2	46	12	34	935
Gas apparatus	A. O. Granger	334,700	Jan. 19	1706	455	34	329
Gas apparatus	E. J. Jerzmanowski	343,995	June 22	1750	450	35	1347
Gas. Apparatus for manufacturing	B. Loomis	338,991	Mar. 30	2895	766 / 767	34	1473
Gas. Apparatus for manufacturing	H. C. Rew	341,506	May 11	740	200	35	650
Gas. Apparatus for manufacturing	J. L. Stewart	333,691	Jan. 5	258	70, 71	34	50
Gas. Apparatus for manufacturing	J. L. Stewart	333,693	Jan. 5	267	72, 73	34	51
Gas. Apparatus for manufacturing illuminating	J. B. Archer	341,624	May 11	910	241	35	683
Gas. Apparatus for manufacturing illuminating and heating	F. B. Forster	354,185	Dec. 14	797	211	37	1159
Gas. Apparatus for producing	P. W. Mackenzie	334,447	Jan. 19	1349	366	34	265
Gas. Apparatus for producing illuminating	E. J. Jerzmanowski	341,012	May 4	54	14, 15	35	515
Gas. Apparatus for the manufacture of	W. F. M. McCarty	343,525	June 8	1102	277	35	1214
Gas. Apparatus for the manufacture of illuminating	H. H. Edgerton	339,748	Apr. 13	957	236 / 237	35	175
Gas. Apparatus for the manufacture of illuminating and heating	B. Loomis	338,989	Mar. 30	2889	765 / 766	34	1472
Gas. Apparatus for the production of pure sulphurous	F. Randon	337,197	Mar. 2	420	110	34	1004
Gas. Apparatus for the purification of	A. Delaney and W. Simpkin	348,832	Sept. 7	389	105	36	1120
Gas as a fuel. Utilizing natural	L. P. Rider	349,811	Sept. 28	1761	455	36	1397
Gas-burner	E. Bourne	347,153	Aug. 10	943	252	36	647
Gas-burner	W. T. Bradberry	355,808	July 6	7	2	36	4
Gas-burner	E. L. Dawes and A. Haarlander	350,815	Oct. 12	1015	271	37	191
Gas-burner	J. C. English	335,439	Feb. 2	490	128	34	529
Gas-burner	J. M. Foster	355,158	Dec. 28	2184	576 / 577	37	1435
Gas-burner	G. Galland and E. Groux	344,900	July 6	148	38	36	27
Gas-burner	T. Gordon	345,499	July 13	977	247	36	181
Gas-burner	G. Hathorne	351,052	Oct. 19	1373	360	37	263
Gas-burner	L. D. Hosford and J. G. Bass, Jr.	341,381	May 4	575	159	35	609
Gas-burner	O. D. McClellan	336,418	Feb. 16	1916	502	34	795
Gas-burner	J. S. Webbered	353,187	Nov. 23	2045	546	37	866
Gas-burner and carburetor	N. A. Ransom	333,671	Jan. 5	229	62, 63	34	45
Gas-burner attachment	F. E. Mills	353,494	Nov. 30	2478	662	37	954
Gas-burner. Automatic safety	G. Doutney	334,572	Jan. 19	1531	409	34	297
Gas-burner. Automatic safety	A. Meyer	333,653	Jan. 5	203	56	34	40
Gas-burner. Automatic safety	J. F. Strong and J. H. J. Haines	343,982	June 8	740	184	35	1149
Gas-burner. Electric	A. T. Smith	349,533	Sept. 21	1396	355	36	1316
Gas-burner for cooking purposes	T. Redmayne	344,986	July 6	270	69	36	48
Gas-burner for cooking purposes	T Redmayne	344,987	July 6	271	70	36	49
Gas. Burner for natural	F. Barnhart	345,825	July 20	1476	381	36	277
Gas-burner. Incandescent	H. Galopin and J. Evans	354,977	Dec. 28	1923	508	37	1336
Gas burner. Petroleum-	A. Hiessier	354,132	Dec. 14	712	191	37	1141
Gas-burner. Regenerative	C. Campbell	337,130	Mar. 2	335	87	34	987
Gas-burner. Regenerative	C. M. Lungren	351,386	Oct. 26	1830	481	37	353
Gas-burner. Regenerative	W. S. Mead	354,564	Dec. 21	1331	353	37	1262
Gas-burner. Self-closing	W. W. Sherman	342,139	May 18	1605	429	35	823
Gas-burner. Superheating	S. D. Baldwin	352,509	Nov. 16	1094	295 / 296	37	679
Gas burner. Water and oil	W. S. Mead	345,712	July 20	1310	339	36	249
Gas-burners. Automatic cut-off for	E. A. Jukes	340,951	Apr. 27	2627	692	35	489
Gas-burners. Automatic cut-off for	T. J. L. Smiley and C. H. Stombs	340,381	Apr. 20	1846	473 / 474	35	344
Gas-burners. Automatic cut-off for	B. D. Warner and A. Pelisse	344,510	June 29	2478	637	35	1485
Gas-burners. Device for cleaning	J. H. Fleury	342,502	May 25	2236	602	35	948
Gas-burners. Regulating-valve for	M. F. Elliott	348,897	Sept. 7	489	129	36	1137
Gas. Burning	L. P. Rider	352,663	Nov. 16	1308	332 / 333	37	717
Gas. Carburetor for enriching	N. Finck	351,858	Nov. 2	188	52	37	493
Gas-combustion apparatus	C. Konold and W. H. Hays	344,385	June 29	2305	594	35	1454
Gas-compressor	W. Bowers	350,863	Oct. 12	1081	289	37	204
Gas conduits. Casing for natural-	J Blackmore and T. D. Steen	347,084	Aug. 10	845	225	36	628
Gas-conduits. Coupling for joints of	G. Marland	338,003	Mar. 16	1643	427	34	1235
Gas. Conveying and supplying	G. Westinghouse, Jr.	333,800	Jan. 5	417	113	34	78
Gas-conveying conduit	J. Schinneller	338,559	Mar. 23	2270	595	34	1356
Gas cut-off. Automatic	C. Leech	344,916	July 6	168	43	36	31
Gas. Decomposing and carbureting natural	J. M. Critchlow	347,693	Aug. 17	1722	459	36	799
Gas. Device for regulating and enriching illuminating-	L. B. White, D. Jackson, and M. Van Buren.	341,197	May 4	313	89	35	562
Gas. Distributing	J. H. Dalzell and T. J. McTighe	337,668	Mar. 9	1062	274	34	1124
Gas-distribution. Means for	R. H. and W. F. Smith	342,143	May 18	1610	430 / 431	35	824
Gas electric advertiser-cock	L. Lenaerts and H. L'Olivier	341,926	May 18	1315	352	35	769
Gas. Electrical torch for lighting	J. D. Culp	336,898	Mar. 2	23	7	34	931
Gas-engine	C. H. Andrew and H. Williams	341,538	May 11	793	211	35	660
Gas-engine	G. C. Anthony	337,226	Mar. 2	455	119	34	1010
Gas-engine	J. Atkinson	336,503	Feb. 16	2026	532	34	814
Gas-engine	J. Charter	335,564	Feb. 9	667	176	34	567
Gas-engine	J. H. Clark	344,440	June 29	2476	612	35	1468
Gas-engine	J. H. Clark	347,469	Aug. 17	1392	371	36	737
Gas-engine	G. Daimler. (Reissue)	10,759	Aug. 24	2429	630	36	938
Gas-engine	E. Delamare-Deboutteville and L. P. C. Malandin.	333,838	Jan. 5	409	127	34	87
Gas-engine	J. Hodgkinson and J. H. Dewhurst	347,603	Aug. 17	1580	420	36	773
Gas-engine	E. J. J. Lenoir	345,596	July 13	1138	290 / 291	36	210
Gas-engine	J. J. E. Lenoir	335,462	Feb. 2	520	136	34	535

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gas-engine	P. Murray, Jr	351,393	Oct. 26	1847	484, 485	37	356
Gas-engine	P. Murray, Jr	351,394	Oct. 26	1853	485, 486, 487	37	357
Gas-engine	P. Murray, Jr	351,395	Oct. 26	1865	487, 488	37	358
Gas-engine	L. H. Nash	334,039	Jan. 12	749	205	34	147
Gas-engine	L. H. Nash	341,934	May 18	1325	354	35	771
Gas-engine	N. E. Nash	340,453	Apr. 20	1932	496, 497	35	359
Gas-engine	J. F. Place	348,998	Sept. 14	626	163, 164	36	1167
Gas-engine	J. F. Place	348,999	Sept. 14	634	164, 165	36	1167
Gas-engine	N. B. Randall	355,101	Dec. 28	2105	553	37	1419
Gas-engine	A. L. Riker	349,858	Sept. 28	1823	471	36	1411
Gas-engine	C. Sintz	339,225	Apr. 6	151	41	35	29
Gas-engine	H. and C. E. Skinner	335,971	Feb. 9	1245	331	34	670
Gas-engine	R. F. Smith	345,998	July 20	1716	442, 443	36	321
Gas-engine	R. F. Smith	347,656	Aug. 17	1674	446	36	791
Gas-engine	J. Spiel	349,464	Sept. 21	1275	331	36	1298
Gas-engine	S. Wilcox	343,744	June 15	1432	357	35	1279
Gas-engine	S. Wilcox	343,745	June 15	1433	358	35	1280
Gas engine. Ammoniacal	P. J. McMahon	343,599	June 15	1215	305	35	1241
Gas-engine. Ammoniacal	P. J. McMahon	343,600	June 15	1216	305	35	1241
Gas-engine governor	L. H. Nash	334,038	Jan. 12	747	204	34	147
Gas-engine regulator	E. Körting	346,374	July 27	2235	573	36	428
Gas-engine. Reversible	J. H. Clark	353,402	Nov. 30	2348	627	37	929
Gas-engine speeder	C. E. Skinner	352,368	Nov. 9	919	247	37	636
Gas-engines. Electric igniter for	F. Bain	354,881	Dec. 28	1792	473	37	1361
Gas-engines. Electric igniter for	C. W. Baldwin	352,796	Nov. 16	1484	400	37	751
Gas-engines. Electrical igniter for	C. E. Skinner	335,970	Feb. 9	1244	330	34	670
Gas-engines. Feeding and operating	L. H. Nash	334,040	Jan. 12	752	205, 206	34	148
Gas-engines. Operating	L. H. Nash	341,935	May 18	1328	355	35	771
Gas-fixture. Revolving	J. J. Seidschec	354,252	Dec. 14	888	235	37	1175
Gas for lighting and heating purposes. Process of and apparatus for producing	F. Hembert and E. Henry	339,409	Apr. 6	421	104	35	79
Gas from crude petroleum. Manufacture of	F. C. Kniese	352,620	Nov. 16	1246	337	37	706
Gas from leaks at the joints of gas-conduits. Means for collecting waste	L. Bannister	336,199	Feb. 16	1597	419	34	738
Gas-fuel regulator. Automatic	F. C. Gilfillan	351,045	Oct. 19	1362	358	37	261
Gas-furnace	W. H. Graham	339,876	Apr. 13	1132	279	35	206
Gas-furnace	C. B. Head and J. A. Kaylor	339,648	Apr. 13	815	200, 201	35	150
Gas-furnace	W. Swindell	334,306	Jan. 12	1161	310, 311	34	223
Gas-furnace	W. Swindell	343,865	June 15	1576	401	35	1307
Gas-furnace for boilers	W. R. Jones	341,014	May 4	57	15, 16	35	516
Gas. Furnace for burning natural	W. J. Ward	342,487	May 25	2114	558, 559	35	922
Gas Furnace for the combustion of natural	W. Rippey	337,868	Mar. 16	1322	344	34	1176
Gas-furnace. Regenerative	E. Fourcault and E. Jacques	347,703	Aug. 17	1738	463, 464	36	802
Gas-furnace. Regenerator	W. H. Smith	346,508	Aug. 3	75	19, 20	36	474
Gas-furnaces. Working regenerative	F. Siemens	341,285	May 4	438	119, 120, 121	35	586
Gas-generator	J. E. Smith	340,634	Apr. 27	2198	578, 579	35	413
Gas generator. Ammoniacal	P. J. McMahon	343,598	June 15	1214	305	35	1241
Gas-generator. Automatic	O. W. Bennett	336,378	Feb. 16	1859	487	34	784
Gas-governor	J. S. Connelly	345,369	July 13	790	199	36	148
Gas-governor	G. E. Lockwood	351,642	Oct. 26	2241	569	37	426
Gas-governor. Automatic	T. E. Connolly	345,368	July 13	788	199	36	148
Gas. Grate for burning natural	E. Bourne	354,380	Dec. 14	1067	285	37	1209
Gas-heater	I. Spielmann	348,641	Sept. 7	149	42	36	1074
Gas-heating furnace	J. N. MacGonigle	346,297	July 27	2129	548	36	408
Gas holder and mixer	C. M. and C. E. Kemp	339,900	Apr. 13	1153	287	35	213
Gas-holder. Portable	G. M. Stephen	341,777	May 11	1112	295	35	723
Gas in an inexplosive condition. Conveying	J. H. Dalzell and T. J. McTighe	337,667	Mar. 9	1061	.....	34	1124
Gas in pipes. Device for preventing the freezing of	J. E. Kearns	337,408	Mar. 9	714	186	34	1063
Gas into illuminating-gas. Converting natural	J. McKay	340,231	Apr. 20	1639	.....	35	303
Gas-leak detector	I. M. O'Donel	334,890	Jan. 26	1946	518	34	382
Gas-light. Incandescent	J. M. Langren	336,556	Feb. 23	2130	558	34	839
Gas-lighter. Automatic electric	J. Finck	341,566	May 11	829	221	35	667
Gas-lighter. Electrical	A. Längen	352,473	Nov. 9	1051	283	37	663
Gas-lighting apparatus. Electric	A. F. Cogswell, W. Young and J. R. Haldeman.	341,882	May 18	1259	337	35	759
Gas-lighting apparatus. Electric	J. Finck	341,565	May 11	826	221	35	666
Gas-lighting apparatus. Electric	C. W. Holtzer	338,748	Mar. 30	2554	675	34	1412
Gas-lighting burner. Electric	C. W. Holtzer	338,747	Mar. 30	2553	674	34	1412
Gas-lighting device	C. H. Crockett and C. C. Allen	346,533	Aug. 3	107	28	36	480
Gas-machine	J. S. Wood	345,402	July 13	837	210	36	156
Gas-mains. Detecting and carrying off leakage from	G. Westinghouse, Jr	344,701	June 29	2720	707	35	1532
Gas-mains. Joint for	E. C. Converse	348,951	Sept. 14	565	150	36	1157
Gas-mains. Pipe-coupling for	F. Crocker	344,723	June 29	2749	713	35	1537
Gas-mains. Pipe-joint for	T. McSweeney	341,266	May 4	410	113	35	580
Gas-mains. Pipe-joint for	G. Westinghouse, Jr	340,267	Apr. 20	1683	429	35	313
Gas-mains. Pipe-joint for	G. Westinghouse, Jr	340,268	Apr. 20	1684	429	35	313
Gas-mains. Pipe-joint for	G. Westinghouse, Jr	342,659	May 25	2358	622	35	967
Gas-mains. Preventing leakage in	G. Westinghouse, Jr	340,266	Apr. 20	1682	428	35	3 3

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly Volume. Spec.	Monthly Volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gas-making apparatus	E. S. Bryant, A. W. Finlayson, and G. R. Couds.	340,282	Apr. 20	1704	434	35	316
Gas-making apparatus	T. F. Martin	334,127	Jan. 12	879	241	34	171
Gas-making apparatus	J. C. Wands	335,405	Feb. 2	444	114 115	34	520
Gas. Manufacturing	A. O. Granger	334,701	Jan. 19	1708	456	34	330
Gas. Manufacturing	B. Loomis	338,990	Mar. 30	2892	766	34	1473
Gas. Manufacturing	R. H. Smith	341,354	May 4	536	148	35	601
Gas. Manufacturing	J. L. Stewart	333,692	Jan. 5	262	71. 72	34	51
Gas. Manufacturing heating and illuminating	W. F. M. McCarty	343,524	June 8	1101	277	35	1214
Gas. Manufacturing hydrocarbon	W. F. C. M. McCarty. (Reissue)	10,757	Aug. 17	1817	483 484	36	816
Gas. Manufacturing illuminating	J. B. Archer	341,622	May 11	907	241 242	35	682
Gas. Means for transportation and distribution of	T. P. Roberts	340,616	Apr. 27	2174	573	35	409
Gas-meter. Oscillating	A. F. Fisher	349,489	Sept. 21	1307	340	36	1304
Gas-meter register	J. Deutschbein	353,781	Dec. 7	175	48	37	1039
Gas-meters. Operating the stop-cocks of	L. Lennertz	349,109	Sept. 14	739	201	36	1196
Gas-meters. Pressure-regulator for proportional	F. Moore	340,450	Apr. 20	1928	496	35	359
Gas-meters. Price and quantity register for	J. S. De Palos	346,402	July 27	2278	584 585	36	436
Gas-motor engine	N. A. Otto	350,077	Sept. 28	2115	547 548	36	1466
Gas-motor engine	H. Robinson	346,687	Aug. 3	296	81	36	519
Gas-motor engines. Slide and passage for	N. A. Otto	335,038	Jan. 26	2150	572 573	34	418
Gas. Odorizing	C. Haslett	340,310	Apr. 20	1744	444	35	324
Gas or fluid regulators. Yoke for supporting	M. G. Wilder	351,822	Nov. 2	129	36	37	482
Gas or vapor. Apparatus for generating	J. B. Archer	341,627	May 11	916	262	35	684
Gas or vapor burner	C. A. O. Rosell	348,346	Aug. 31	2655	716	36	988
Gas or water regulator	B. Franklin	334,011	Jan. 12	705	194	34	140
Gas, &c. Parallel drop-bracket for	J. E. Treat	338,117	Mar. 16	1675	435	34	1241
Gas-pipe joints. Sealing natural	J. Schmueller	341,280	May 4	430	118	35	584
Gas-pipes. Cut-off for natural	G. Russell	340,524	Apr. 20	2040	524	35	379
Gas-pressure governor	T. C. Hopper	339,415	Apr. 6	433	106	35	81
Gas-pressure regulator	C. H. Baker	341,544	May 11	801	214	35	661
Gas-pressure regulator	S. A. Beatty	333,587	Jan. 5	123	34	34	26
Gas-pressure regulator	S. A. Beatty	354,674	Dec. 21	1505	399	37	1293
Gas-pressure regulator	L. B. Fulton	339,757	Apr. 13	970	239	35	177
Gas-pressure regulator	R. F. Hatfield	334,773	Jan. 26	1804	480	34	356
Gas-pressure regulator	W. H. Metcalf	351,375	Oct. 19	1665	437	37	317
Gas-pressure regulator	R. Pickering	348,338	Aug. 31	2647	714	36	986
Gas-pressure regulator	C. Ruprecht	348,172	Aug. 24	2413	646	36	935
Gas-pressure regulator	A. Sauer and G. F. Sievern	341,607	May 11	881	235	35	677
Gas. Process of and apparatus for manufacturing	B. Loomis	338,992	Mar. 30	2897	767 768	34	1474
Gas. Process of and apparatus for manufacturing	H. C. Rew	339,471	Apr. 6	515	125	35	96
Gas. Process of and apparatus for manufacturing	H. C. Rew	339,472	Apr. 6	518	125 126	35	96
Gas. Process of and apparatus for manufacturing heating	A. W. Wilkinson	348,178	Aug. 24	2425	649 650	36	937
Gas. Process of and apparatus for manufacturing heating and illuminating	J. Roberts	345,649	July 13	1220	315 316	36	226
Gas. Process of and apparatus for producing	E. J. Jerzmanowski	333,859	Jan. 5	494	134 135	34	92
Gas-producer	M. V. Smith	346,781	Aug. 3	406	112	36	540
Gas. Producing	E. J. Jerzmanowski	333,860	Jan. 5	495	135 136	34	92
Gas. Producing illuminating	E. J. Jerzmanowski	343,996	June 22	1751	451	35	1347
Gas-purifiers. Elevating device for covers of	G. W. Nock	348,137	Aug. 24	2354	631	36	924
Gas-regulating burner	J. J. Butcher and J. H. Wüster	340,030	Apr. 13	1333	333 334	35	243
Gas-regulator	M. J. Amick	333,584	Jan. 5	118	32	34	25
Gas-regulator	W. Armendinger	350,182	Oct. 5	120	34	37	25
Gas-regulator	M. J. Berry	343,359	June 8	873	220	35	1173
Gas-regulator	G. Bray	333,823	Jan. 5	447	121	34	83
Gas-regulator	A. Caldwell	340,696	Apr. 27	2288	603	35	427
Gas-regulator	A. Ford	348,389	Aug. 31	2720	731	36	1000
Gas-regulator	M. Franklin	353,548	Nov. 30	2566	684	37	971
Gas-regulator	H. H. Gridley	340,112	Apr. 20	1444	365	35	269
Gas-regulator	H. L., and W. L. Harris	344,654	June 29	2666	691	35	1522
Gas-regulator	J. H. Helm	354,017	Dec. 7	533	145	37	1103
Gas-regulator	J. L. Kuyl and E. D. Cundell	353,227	Nov. 23	2092	560	37	876
Gas-regulator	C. M. Lungren	351,387	Oct. 26	1839	481	37	353
Gas-regulator	E. C. McCloy	338,422	Mar. 23	2090	547	34	1325
Gas-regulator	J. E. Miller	337,012	Mar. 2	180	47	34	957
Gas-regulator	A. F. Olds	340,454	Apr. 20	1933	497	35	360
Gas-regulator	W. C. Rossney	344,989	July 6	273	70	36	49
Gas-regulator	W. C. Rossney	344,990	July 6	276	71	36	50
Gas-regulator	N. Sleeman	335,156	Feb. 2	79	22	34	454
Gas-regulator	J. Stott	352,072	Nov. 2	494	133 134	37	552
Gas-regulator	J. Stott	354,844	Dec. 21	1733	459	37	1338
Gas-regulator	J. Stubbe	347,840	Aug. 24	1935	513	36	847
Gas-regulator	M. G. Wilder	352,940	Nov. 23	1678	450	37	796
Gas-regulator	M. G. Wilder	353,342	Nov. 30	2253	602	37	911
Gas-regulator. Automatic	J. M. Palmer	344,131	June 22	1948	497	35	1382
Gas-regulator. Volumetric	M. G. Wilder	352,174	Nov. 9	677	180	37	589
Gas retort and furnace	A. M. Mace	345,437	July 13	892	222	36	166
Gas-retort furnace	G. A. McIlhenny	346,301	July 27	2133	549 550	36	409
Gas-saving device	G. W. Reed	334,286	Jan. 12	1136	304	34	219
Gas-scrubber	W. R. Beal	340,543	Apr. 27	2072	535	35	392
Gas-service conduits. Attachment for	J. Leede and J. Lawshe	336,573	Feb. 23	2128	558	34	838

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Gas. Stop-off valve for	J. L. Chapman	334,639	Jan. 19	1623	432	34	314
Gas-supply pipe	G. Russell	337,350	Mar. 2	626	164	34	1041
Gas-supply systems. Stop-valve for	E. C. Merrill	334,882	Jan. 26	1937	516	34	380
Gas-test gage	E. P. Gleason	341,841	May 11	1195	320	35	740
Gas to convert it into illuminating-gas. Treating natural	J. McKay	345,980	July 20	1689	.....	36	316
Gas to gas-burners. Device for cutting off the flow of	J. W. Birch	352,391	Nov. 9	952	255	37	643
Gas-traps. Safety-seal for	W. T. Smith	338,112	Mar. 16	1668	424	34	1239
Gas. Treating natural	J. McKay	340,232	Apr. 20	1629	.....	35	303
Gas under pressure. System for conveying	J. A. McCormick	335,467	Feb. 2	524	137	34	535
Gas. Utilization of natural	H. Bower	338,028	Mar. 16	1556	402, 403	34	1218
Gas-wells. Operating	P. M. Hitchcock	336,317	Feb. 16	1778	465	34	769
Gas-works. Center seal for	G. F. Starkweather	344,060	June 22	1847	474	35	1364
Gas-works. Center seal for	G. F. Starkweather	344,144	June 22	1966	502, 503	35	1385
Gas-works. Scrubber for	A. O. Granger	340,998	May 4	37	10	35	513
Gases. Apparatus for mixing	E. Körting	354,835	Dec. 21	1724	456	37	1336
Gases. Apparatus for purifying	L. S. Goodrich	345,132	July 6	459	118	36	84
Gases. Apparatus for treating liquids with	G. Lunge	344,322	June 22	2208	567, 568	35	1429
Gases. Detector for marsh and other hydrocarbon	N. W. Perry	350,388	Oct. 5	378	109	37	76
Gases. Process of and apparatus for generating compound	C. G. Fairchild	352,613	Nov. 16	1233	333	37	703
Gasoline-vapor conductor	J. H. Porter and J. H. Daly	349,953	Sept. 28	1946	503	36	1434
Gasometer	O. Intze	348,913	Sept. 7	507	135	36	1140
Gasometer	G. E. Johnson	337,065	Mar. 2	241	64	34	970
Gate: *See* Automatic gate. Bridge-gate. Car-gate. Change-gate. Draw-bridge gate. Elevator-gate. End-gate. Farm-gate. Fence-gate. Flood-gate. Fluid-gate. Folding gate. Hydraulic gate. Overflow-gate. Railway-gate. Railway-crossing gate. Railway-crossing safety-gate. Railway safety-gate. Sliding gate. Sliding and rolling gate. Sluiceway-gate. Swinging gate. Tilting gate. Wagon end-gate. Water-gate. Wire gate.							
Gate	W. K. Albertson	354,081	Dec. 14	625	171	37	1129
Gate	J. Austin and R. Chamberlain	336,031	Feb. 9	1327	351	34	684
Gate	J. V. Baird	349,474	Sept. 21	1287	334, 335	36	1300
Gate	J. H. Barton	338,912	Mar. 30	2787	735	34	1454
Gate	H. P. Bullock and H. P. Cayce	352,080	Nov. 2	507	136	37	554
Gate	I. Burkholder	336,288	Feb. 16	1745	456, 457	34	762
Gate	W. H. Campbell	337,375	Mar. 9	665	174	34	1055
Gate	C. B. Clark	340,861	Apr. 27	2507	660	35	468
Gate	N. D. Combs	348,489	Aug. 31	2863	770	36	1027
Gate	J. E. Covert	340,424	Apr. 20	1893	486	35	352
Gate	W. H. Cox	336,471	Feb. 16	1987	520, 521	34	807
Gate	J. W. Denton	352,524	Nov. 16	1113	301	37	682
Gate	T. Depp and E. H. Selby	334,516	Jan. 19	1454	390, 391	34	283
Gate	J. M. Dine	340,033	Apr. 13	1341	335	35	245
Gate	N. J. Douglas	354,107	Dec. 14	669	180	37	1136
Gate	T. W. Edrington	341,645	May 11	937	248	35	688
Gate	W. D. Ellis	341,896	May 18	1278	342	35	762
Gate	S. Emery	337,674	Mar. 9	1069	276	34	1125
Gate	W. P. Engel and F. Hopkins	354,115	Dec. 14	680	183	37	1138
Gate	I. M. Fry	340,997	May 4	36	10	35	512
Gate	D. Giles	335,028	Jan. 26	2133	567	34	415
Gate	C. W. Gillis	338,058	Mar. 16	1588	413	34	1224
Gate	M. B. and W. Y. Gordon	338,401	Mar. 23	2063	541	34	1320
Gate	G. A. Grant	337,148	Mar. 2	354	92	34	991
Gate	H. S. Harris	344,271	June 22	2142	549	35	1417
Gate	J. Hughesdon	341,849	May 11	1309	324	35	742
Gate	S. Hushaw	336,049	Feb. 9	1356	358	34	690
Gate	S. L. Ingham	353,682	Dec. 7	44	12	37	1015
Gate	I. H. Kepler	337,409	Mar. 9	715	186	34	1064
Gate	J. L. Kopecky	347,620	Aug. 17	1605	426	36	778
Gate	I. L. Landis	339,903	Apr. 13	1158	288	35	213
Gate	I. Lantz	352,417	Nov. 9	981	264	37	649
Gate	J. C. Lewis and W. H. Rainey	346,483	Aug. 3	44	11	36	408
Gate	J. W. Lightfoot	337,597	Mar. 9	977	250	34	1108
Gate	J. E. Little	350,374	Oct. 5	363	104	37	73
Gate	W. Mason	343,382	June 8	911	228	35	1180
Gate	M. C. Meeker	351,119	Oct. 19	1459	382	37	279
Gate	M. B. Mills	343,349	June 8	693	171, 172	35	1141
Gate	M. B. Mills	346,121	July 27	1875	484	36	359
Gate	T. H. O'Reilly	333,884	Jan. 5	528	143	34	99
Gate	J. F. Oldfather and B. F. Grandstaff	339,928	Apr. 13	1192	297	35	219
Gate	T. L. Patrick	337,612	Mar. 9	994	255	34	1112
Gate	C. E. Plumley	351,337	Oct. 19	1748	460	37	332
Gate	K. H. C. Preston	338,298	Mar. 23	1912	503, 504	34	1294
Gate	G. P. Price	339,579	Apr. 6	714	175	35	125
Gate	W. M. Price	338,190	Mar. 16	1772	462	34	1261

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gate	J. Ringer	339,695	Apr. 13	887	218	35	162
Gate	M. M. Roberts	347,740	Aug. 17	1786	476	36	810
Gate	P. Robinson	335,630	Feb. 9	764	203	34	584
Gate	T. Rodecker	334,287	Jan. 12	1136	305	34	219
Gate	J. A. Rogers and J. W. Roan	352,933	Nov. 23	1668	448	37	795
Gate	F. W. Sensiba	337,089	Mar. 2	275	73	34	977
Gate	S. S. Sherman	337,633	Mar. 9	1021	262	34	1117
Gate	D. Slauson	340,160	Apr. 20	1515	383	35	283
Gate	S. Sparks	350,165	Oct. 5	96	28	37	20
Gate	S. Stephens	347,898	Aug. 24	2019	535	36	861
Gate	J. A. D. Taylor	346,787	Aug. 3	413	114	36	541
Gate	H. O. Thomas	350,571	Oct. 12	665	182	37	127
Gate	P. S. Tipton	349,187	Sept. 14	893	239	36	1215
Gate	J. F. Towner	335,254	Feb. 2	239	63	34	483
Gate	W. Tritch	353,550	Nov. 30	2568	685	37	971
Gate	L. D. Wade	348,433	Aug. 31	2781	748	36	1012
Gate	G. W. Walters	351,141	Oct. 19	1491	390	37	285
Gate	J. W. White	337,907	Mar. 16	1374	357	34	1186
Gate	W. J. Wilson	348,940	Sept. 7	546	144	36	1147
Gate	W. L. and J. C. Wilson	337,104	Mar. 2	294	78	34	980
Gate-actuating mechanism	W. R. White	349,869	Sept. 28	1835	474	36	1413
Gate-opening device	N. E. Reesor	337,618	Mar. 9	1002	257	34	1113
Gate-post	M. A. Sparks	347,658	Aug. 17	1689	447	36	792
Gates, &c. Device for closing	A. Eckert	353,298	Nov. 30	2198	588	37	902
Gates. Operating	H. F. Klopp	333,865	Jan. 5	503	137	34	93
Gear. Driving	A. C. Nagel, R. H. Kaemp, and A. W. F. G. Linnenbrügge.	335,832	Feb. 9	1049	277	34	636
Gear. Reversing	G. S. King	334,238	Jan. 12	1059	281	34	205
Gearing	D. C. and H. P. Camp	333,826	Jan. 5	454	123	34	84
Gearing	B. D. Whitney	342,664	May 25	2362	624	35	968
Gearing	B. D. Whitney	343,094	June 1	456	116	35	1089
Gearing	B. D. Whitney	343,352	June 8	863	217	35	1171
Gearing	B. D. Whitney	343,937	June 15	1663	427	35	1325
Gearing. Chain	C. Bernhardt	342,567	May 25	2228	592	35	942
Gearing. Changeable-speed	A. Armitage	345,018	July 6	318	80	36	58
Gearing for changing speed	S. N. Gallup	345,377	July 13	800	202	36	150
Gearing for machinery. Reversing	J. Cryderman	339,085	Mar. 30	3035	{801 / 809}	34	1496
Gearing for operating straw-cutters, chop-grinders, and corn-shellers.	J. W. Emenhiser	344,363	June 29	2274	585	35	1448
Gearing for roller-mills. Belt	J. M. Schutz	337,444	Mar. 9	788	201	34	1075
Gearing. Incased	E. Penney	333,542	Jan. 5	62	17, 18	34	14
Gearing. Toothed	G. H. Reynolds	342,134	May 18	1601	427	35	822
Gearing. Worm	W. F. Beardslee	336,200	Feb. 16	1599	420	34	739
Gearing. Worm	G. H. Reynolds	353,429	Nov. 30	2385	{636 / 637}	37	936
Gelatine from the heads of fishes. Obtaining	B. Robinson	352,151	Nov. 9	632	.....	37	582
Gelatinized pelt	T. P. Milligan	333,964	Jan. 5	637	.....	34	120
Generator:							
See Electric generator. Hydrocarbon-generator. Electric call-generator. Liquid-pressure generator. Gas-generator. Smoke-generator. Gas and steam generator. Steam-generator. Vapor-fuel generator.							
Gib and key	J. H. Robison	351,127	Oct. 19	1471	385	37	282
Gigging-machine	F. Ott	344,981	July 6	259	65	36	46
Glass:							
See Plate-glass. Toilet-glass.							
Glass and other materials. Etching on	J. Locke	343,961	June 15	1702	436	35	1332
Glass and other metal articles together. Securing	B. B. Schneider and H. Brooke	342,045	May 18	1471	394	35	797
Glass and other surfaces. Ornamenting	E. L. Brown	340,550	Apr. 27	2081	537	35	394
Glass and vitreous or porcelaneous products. Making	J. T. Wainwright	351,413	Oct. 26	1899	494	37	364
Glass-annealing oven	F. Schefold	338,880	Mar. 30	2737	720	34	1445
Glass. Apparatus for flattening window	L. Houze	336,855	Feb. 23	2509	662	34	909
Glass articles. Finishing	W. H. Barr	335,987	Feb. 9	1267	336	34	674
Glass barrel	W. V. Perry	336,344	Feb. 16	1816	476	34	776
Glass-beveling machine	T. F. Gilroy	344,179	June 22	2015	516	35	1394
Glass-beveling machine	N. Vogley	340,260	Apr. 20	1675	{425 / 426}	35	311
Glass-blowers' mold	G. H. Lomax	351,784	Nov. 2	80	22	37	473
Glass bottles. Forming indents in	D. Rylands	357 741	Aug. 17	1787	476	36	810
Glass bottles. Machine for finishing the mouths of	C. E. Thomas	348,797	Sept. 7	346	94	36	1112
Glass-can cap	T. G. Otterson and C. C. Voorhies. (Reissue.)	10,741	June 29	2867	741	35	1560
Glass, cement, ceramic ware, &c. Manufacture of	H. Burgess and S. H. Egolf	339,525	Apr. 6	593	.....	35	109
Glass. Cement for use in manufacturing stained	R. McKee	353,695	Dec. 7	57	15	37	1017
Glass, cement, &c. Manufacture of	H. Burgess	339,524	Apr. 6	592	.....	35	109
Glass-crimping machine	W. Leighton, Jr	344,585	June 29	2572	666	35	1503
Glass-cutting frame	F. Woerner and S. E. Nies	342,159	May 18	1630	436	35	828
Glass-cutting gage	E. O. Boyle	336,834	Feb. 23	2482	653	34	904
Glass-cutting machine	M. M. Smith and F. Armbrust	351,219	Oct. 19	1593	418	37	305
Glass-drill	E. Higham	350,132	Oct. 5	46	13	37	11
Glass. Flatting and annealing oven for	T. A. Zellers	342,670	May 25	2373	{627 / 628}	35	969
Glass, &c. Furnace for melting	J. Pedder. (Reissue)	10,723	May 11	1234	330	35	746
Glass. Gilding	J. Pratt	354,343	Dec. 14	1027	.....	37	1201
Glass globes, shades, &c. Machine for making	D. J. Lorden	345,979	July 20	1687	436	36	316
Glass. Hardening and toughening	E. P. Kelsey	342,260	May 18	1761	467	35	852
Glass. Imitating stained	A. M. F. Caspar	340,485	Apr. 20	1984	509	35	369
Glass, iron, &c. Gas-furnace for melting	L. Whittaker	342,944	June 1	244	62	35	1050
Glass jars. Former-head for	G. W. Coddington	341,317	May 4	493	134	35	594
Glass jars. Tool for finishing	F. D. Taylor	345,194	July 6	543	139	36	99
Glass. Lead for setting stained	J. Pfieging	340,353	Apr. 20	1814	465	35	338

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Glass, &c. Machine for grinding	C. Seyer and E. Richard	342,935	June 1	228	58, 59	35	1047
Glass. Machine for grinding and smoothing plate	G. F. Neale and M. P. Elliott	348,766	Sept. 7	312	83, 84	36	1105
Glass-maker's mold	F. S. Shirley	337,204	Mar. 2	427	112	34	1005
Glass. Manufacture of articles made from toughened	F. B A. R. De la Bastie	334,754	Jan. 26	1783	474	34	352
Glass-melting furnace	U. Houze	347,045	Aug. 10	780	207	36	617
Glass-melting oven	H. J. Jacobsen	341,103	May 4	177	55	35	537
Glass-mold	G. W. Blair and W. Buttler	342,318	May 25	1870	495	35	879
Glass-mold	H. Franz	342,743	May 25	2490	662, 663	35	991
Glass-mold	W. H. Gulliver	337,764	Mar. 9	1179	307	34	1143
Glass mosaics. Joining	S. Bray	349,424	Sept. 21	1217	316	36	1287
Glass or other plates with liquefied gelatine. Apparatus for coating	A. L. Henderson	344,043	June 22	1823	468	35	1359
Glass panel Ornamental	C. D. Pease	334,677	Jan. 19	1673	447	34	323
Glass polisher. Plate	J. Haslem	349,430	Sept. 21	1225	318	36	1288
Glass-polishing machine	P. Bernard	348,311	Aug. 31	2618	705	36	980
Glass-press	T. G. Otterson	353,461	Nov. 30	2433	649	37	946
Glass-presses. Device for attaching plungers to	G. W. Davis and C. L. Kinsfalter	346,737	Aug. 3	360	96	36	531
Glass. Rolling plate	E. Walsh, Jr	346,695	Aug. 3	308	84, 85	36	521
Glass setter. Window	D. E. Teal	352,788	Nov. 16	1467	396	37	749
Glass shoes or slippers. Manufacture of	J. E. Miller	351,197	Oct. 19	1567	411	37	300
Glass slipper	H J. Smith	351,216	Oct. 19	1588	416, 417	37	304
Glass surfaces. Ornamenting	J. S. Roberts	334,472	Jan. 19	1394	376	34	273
Glass tumblers. Apparatus for manufacturing	T. Walton	346,181	July 27	1965	506, 507	36	376
Glass vase	A. H. Heisey	354,416	Dec. 14	1109	298	37	1216
Glass while being ground or polished. Device for holding	H. Besson and E. N. Kent	349,204	Sept. 14	914	235	36	1219
Glass windows. Manufacture of stained	L. Charmantier and S. DeCazenave	346,984	Aug. 10	687	.....	36	600
Glassware	F. D. Libbey	337,170	Mar. 2	388	101	34	997
Glassware	E. D. Libbey	343,823	June 15	1522	384	35	1217
Glassware and finishing the same	F. S. Shirley	344,415	June 29	2343	603	35	1462
Glassware and process of making the same. Ornamental pressed	J. Haley	341,141	May 4	236	70	35	548
Glassware. Decorated	A. Hamprecht	337,324	Mar. 2	598	157	34	1036
Glassware. Manufacture of	P. Arbogast	352,672	Nov. 16	1321	356	37	719
Glassware. Manufacture of	G. W. Blair	337,656	Mar. 9	1049	270	34	1121
Glassware. Manufacture of	G. W. Blair. (Reissue)	10,712	Apr. 20	2060	530	35	383
Glassware. Manufacture of	G. W. Blair. (Reissue)	10,753	Aug. 10	1161	311	36	687
Glassware. Manufacture of decorated	A. Hamprecht	337,325	Mar. 2	599	157	34	1037
Glassware. Manufacture of decorated hollow	G. A. J. Tietz	345,264	July 6	644	163	36	117
Glassware. Manufacture of fancy	J. Webb	345,265	July 6	645	163	36	117
Glassware Manufacture of opalescent	W. Leighton, Jr., and W. F Russell	343,133	June 1	522	132	35	1101
Glassware. Manufacture of ornamented	G. W. Blair	342,319	May 25	1871	496	35	880
Glassware. Manufacture of variegated	D Challinor	342,898	June 1	173	.....	35	1037
Glassware. Mold for hollow	H. C. Schrader	344,500	June 29	2464	633	35	1482
Glassware. Ornamental	J. Locke	345,436	July 13	891	222	36	166
Glassware. Ornamentation of	A. Witthauer	353,523	Nov. 30	2595	.....	37	963
Glassware Ornamenting	E. Pollard	343,608	June 15	1229	.....	35	1244
Glassware. Process of and apparatus for pressing	J. Haley	343,520	June 8	1097	276	35	1213
Glassware. Shaping	D. C. Ripley	336,666	Feb. 23	2268	501, 502	34	863
Globe for showing the directions of the winds	J. P. Royall	333,971	Jan. 5	649	178	34	122
Globe. Terrestro-sidereal	F. H. Bailey	336,280	Feb. 16	1725	451	34	759
Glove, &c	P. F. Cole	334,513	Jan. 19	1451	389	34	282
Glove	C. Mays and W. P. Pepys	342,833	June 1	84	21	35	1022
Glove	E. V. Whitaker	348,806	Sept. 7	361	97	36	1114
Glove	E. V. Whitaker	348,807	Sept. 7	361	97	36	1114
Glove and glove-fastening	H. Urwick	351,724	Oct. 26	3347	610	37	449
Glove and making the same	W. W. Whitaker	348,439	Aug. 31	2793	750, 751	36	1014
Glove-fastener	F. R. Baker	340,852	Apr. 27	2495	657	35	466
Glove-fastener	W. R. Comings	353,845	Dec. 7	273	72	37	1056
Glove-fastener	S. Porter	343,543	June 8	1129	285	35	1219
Glove-fastening	E. Flagg	342,196	May 18	1670	446	35	834
Glove-fastening	S. W. Shorey	345,930	July 20	1622	418	36	304
Glove-stretcher	S. Poole	346,415	July 27	2300	593	36	439
Gloves and other articles. Fastening for	S. W. Shorey	352,271	Nov. 9	801	214	37	613
Gloves, &c. Fastener for	E. A. Wilson	348,604	Sept. 7	99	28	36	1065
Gloves. Making button-holes in leather	J. Whitby	335,865	Feb. 9	2096	290	34	595
Gloves. Separable button for	E. Pringle	351,887	Nov. 2	224	63	37	500
Glucose. Manufacture of	A. Seyberlich and A. Trampedach	337,448	Mar. 9	794	.....	34	1076
Glue from marine animals. Obtaining	C. A. Sahlström	353,824	Dec. 7	242	.....	37	1051
Glue. Making fish	W. N. Le Page	351,607	Oct. 26	2189	.....	37	419
Glue. Manufacture of	W. P. Upham	343,507	June 8	1063	271	35	1210
Glue. Manufacturing	K. Upton	338,374	Mar. 23	2025	532	34	1313
Gluing-machine	E. Densmore	347,329	Aug. 17	1190	318	36	701
Gluing-machine	G. W. Glazier	346,992	Aug. 10	696	185	36	602
Gluing-press	J. F. Kartheiser	341,048	June 22	1829	470	35	1360
Glycerine from fatty substances. Extracting	J. H. Clinton	336,795	Feb. 23	2431	.....	34	894
Glycerine. Refining	C. L. Porter	345,174	July 6	516	.....	36	94
Gold and silver from ores and mattes. Extracting	P. Manhes	337,967	Mar. 16	1468	.....	34	1203
Gold and silver lace trimmings. Renovating	A. Söhner	349,535	Sept. 21	1369	355, 356	36	1317
Gold and silver ores. Desulphurizing	J. H. Mathews	334,961	Jan. 26	2037	544	34	398
Gold, &c. Machine for concentrating	A. D. Clarke	347,771	Aug. 24	1834	488	36	827
Gold-separator	W L. Card	347,867	Aug. 24	1970	522, 523	36	853
Gold, silver, copper, nickel, and cobalt from their ores by electrolytic action. Obtaining	M. Body	333,815	Jan. 5	434	118	34	81
Gold-washing apparatus	S. S. and C. L. Heller	341,750	May 11	1078	287	35	717
Goods. Making-up board for piece	C. Priestley	340,521	Apr. 20	2037	524	35	379

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Goods-rack	J. Danner	349,212	Sept. 14	924	237	36	1221
Gopher-trap	J. Weichhart	345,345	July 13	760	190	36	143
Gossamer fabric and manufacturing the same	M. L. Derick	344,086	June 22	1888	484	35	1372
Governor	C. B. Bosworth	333,817	Jan. 5	437	118	34	82
Governor	J. Casho	335,270	Feb. 2	261	69	34	487
Governor	J. Casho	340,978	May 4	11	3	35	507
Governor	W. R. Cunningham	340,032	Apr. 13	1339	335	35	244
Governor	J. D. Hobbs	336,318	Feb. 16	1780	465, 466	34	769
Governor	J. Judson	349,847	Sept. 28	1812	468	36	1409
Governor	W. D. Marks	350,595	Oct. 12	699	189, 190	37	134
Governor	W. M. Norcross	337,514	Mar. 9	878	222	34	1090
Governor	W. H. Wheeler	343,683	June 15	1335	333	35	1262
Governor. Automatic marine	C. Dickenson	337,817	Mar. 16	1261	327	34	1165
Governor. Centrifugal	J. E. McIntosh	346,302	July 27	2135	550	36	409
Governor-connection	R. J. Hotchkiss	350,250	Oct. 5	208	60	37	43
Governor. Electric steam-	E. H. Amet	341,368	May 4	555	154	35	605
Governor. Engine-	W. Arnot	350,797	Oct. 12	991	265	37	187
Governor. Engine-	A. P. Broomell	338,822	Mar. 30	2655	699	34	1430
Governor. Engine-	D. P. Davis	343,702	June 15	1361	340	35	1266
Governor for electric motors	A. W. Meston	353,367	Nov. 30	2290	611, 612	37	919
Governor for motors	J. Dow	334,112	Jan. 12	859	236	34	167
Governor for steam and other engines	C. W. Pinkney	339,461	Apr. 6	500	122	35	93
Governor for steam and other engines	C. W. Pinkney	339,462	Apr. 6	502	122	35	93
Governor for steam-engines. Electric	A. O. Tengvall	339,826	Apr. 13	1053	261	35	193
Governor for water-wheels	H. E. Jacobs	339,783	Apr. 13	1003	248	35	183
Governor regulation	G. H. Corliss	333,834	Jan. 5	465	126	34	86
Governor. Steam-	J. Gerhardt	349,492	Sept. 21	1312	341	36	1305
Governor. Steam-engine	G. H. Adam	340,652	Apr. 27	2230	584	35	418
Governor. Steam-engine	J. S. Bancroft and W. Lewis	354,033	Dec. 7	556	151	37	1108
Governor. Steam-engine	W. A. Bole	343,430	June 8	972	243	35	1191
Governor. Steam-engine	E. N. Bowen	350,970	Oct. 19	1229	326	37	238
Governor. Steam-engine	N. F. Burnham	336,836	Feb. 23	2486	653, 654	34	904
Governor. Steam-engine	W. L. Collamore	348,265	Aug. 31	2555	687	36	967
Governor. Steam-engine	G. H. Corliss	333,835	Jan. 5	466	126	34	87
Governor. Steam-engine	G. H. Corliss	344,249	June 22	2108	539	35	1412
Governor. Steam-engine	J. C. Cosford and J. P. Kern	335,892	Feb. 9	1147	305	34	653
Governor. Steam-engine	R. Matthews	351,188	Oct. 19	1555	408, 409	37	298
Governor. Steam-engine	W. Miller and F. E. Frey	353,957	Dec. 7	444	121	37	1087
Governor. Steam-engine	W. Morava	341,933	May 18	1324	354	35	771
Governor. Steam-engine	J. Richards	336,747	Feb. 23	2367	619, 620	34	882
Governor. Steam-engine	F. M. Rites	342,307	May 18	1842	487	35	865
Grab-hook	S. Byrne	341,401	May 4	605	165	35	614
Grab-hook for chains	M. Barr	336,687	Feb. 23	2299	601	34	869
Grader and ditcher. Combined	G. D. Huffman	340,119	Apr. 20	1456	367	35	271
Grader. Road-	F. S. Pennock	336,821	Feb. 23	2467	648	34	901
Grader. Road-	S. Pennock	344,197	June 22	2043	523	35	1399
Grader. Road-	A. V. Pitts	342,808	June 1	45	12	35	1014
Grader. Road-	G. B. Sharp, Jr., and F. M. and S. Pennock.	344,205	June 22	2043	525	35	1401
Grading-machine	J. C. Sage	354,745	Dec. 21	1609	426	37	1313
Grading machine. Road-	R. Long	352,198	Nov. 9	705	188, 189	37	595
Grading machine. Road-	J. Moore	345,315	July 13	717	181	36	135
Grafting implement	O. H. Congar	340,699	Apr. 27	2292	604	35	428
Grafting implement	O. H. Congar	340,700	Apr. 27	2294	604	35	428
Grafting implement	W. Maynard	351,879	Nov. 2	216	61	37	498
Grafting-machine	D. B. Speer	348,592	Sept. 7	83	24	36	1062
Grafting-tool	C. W. Holt	354,420	Dec. 14	1113	299	37	1217
Grain-adjuster	E. F. Cripe	340,908	Apr. 27	2570	677	35	479
Grain-adjusting device	H. Curtis	336,553	Feb. 23	2098	552	34	833
Grain and middlings separator	G. Rippin	343,649	June 15	1281	322	35	1253
Grain and succulent materials. Receptacle for the preservation of	C. Rabitz	339,211	Apr. 6	136	36	35	27
Grain. Apparatus for purifying	G. T. A. Niederer	342,220	May 18	1703	453, 454	35	841
Grain, &c. Apparatus for transferring	A. B. Fernald and D. T. Lawson	337,388	Mar. 9	681	178	34	1058
Grain-binder	H. D. W. Bailey	350,965	Oct. 19	1219	323, 324	37	236
Grain-binder	W. R. Baker	339,128	Apr. 6	9	4	35	5
Grain-binder	W. R. Baker and H. E. Pridmore	339,518	Apr. 6	582	140, 141, 142	35	107
Grain-binder	W. R. Baker and H. E. Pridmore	351,353	Oct. 26	1776	467	37	344
Grain-binder	J. P. Bullock	339,142	Apr. 6	31	9, 10, 11	35	8
Grain-binder	J. P. Bullock	399,523	Apr. 6	591	143	35	109
Grain-binder	P. P. Coler	336,895	Mar. 2	13	4, 5, 6	34	929
Grain-binder	P. P. Coler	341,131	May 4	218	66, 67	35	545
Grain-binder	W. P. Hale	343,709	June 15	1374	343, 344, 345, 346	35	1269
Grain-binder	P. F. Hodges	344,964	July 6	225	58	36	41
Grain-binder	G. G. Hunt	339,988	Apr. 13	1276	319	35	234
Grain-binder	G. G. Hunt	399,989	Apr. 13	1280	320	35	235
Grain-binder	G. G. Hunt and G. H. Steward	353,560	Nov. 30	2582	690	37	974
Grain-binder	E. W. Jenkins	347,938	Aug. 24	2080	552	36	873

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Grain-binder	H. Johnston	352,091	Nov. 2	527	141	37	558
Grain-binder	E. M. Kellogg	338,417	Mar. 23	2082	546	34	1324
Grain-binder	C. Lidren	342,699	May 25	2420	641, 642, 643	35	978
Grain-binder	W. Lottridge	338,091	Mar. 16	1629	424, 425, 426	34	1232
Grain-binder	W. Marshall	341,589	May 11	862	229, 230	35	673
Grain-binder	R. W. Maske	347,815	Aug. 24	1897	505, 506	36	840
Grain-binder	C. Miller	340,342	Apr. 20	1787	458, 459	35	333
Grain-binder	L. Miller	346,491	Aug. 3	53	13, 14	36	470
Grain-binder	H. E. Pridmore	343,152	June 1	545	138	35	1106
Grain-binder	J. F. Seiberling	354,251	Dec. 14	886	234, 235	37	1175
Grain-binder	J. R. Severance	345,546	July 13	1068	272, 273	36	197
Grain-binder	A. Stark	354,813	Dec. 21	1694	447, 448	37	1330
Grain-binder	W. N. Whiteley	350,404	Oct. 5	394	113	37	79
Grain-binder	C. Whitney	334,499	Jan. 19	1429	385	34	278
Grain-binder cord-holder	O. Cooley	335,273	Feb. 2	264	69, 70	34	488
Grain-binder cord-holder	O. Cooley	345,674	July 20	1264	327	36	240
Grain-binder cord-holder	J. G. Leonard	339,994	Apr. 13	1288	321, 322	35	236
Grain-binder cord-holder	W. W. Mayberry	351,643	Oct. 26	2241	580	37	428
Grain-binder elevator	W. M. Whiting	337,643	Mar. 9	1032	265	34	1119
Grain-binder knotting device	W. N. Whiteley, W. Bayley, and S. Dyer.	333,907	Jan. 5	560	151, 152	34	105
Grain-binder knotting mechanism	J. F. Appleby	335,332	Feb. 2	344	90	34	503
Grain-binder tension device	G. C. Blakely and J. B. Gilpatrick	335,677	Feb. 9	824	219	34	595
Grain-binders. Adjustable locking device for	C. A. Anderson	352,027	Nov. 2	431	117	37	531
Grain-binders. Cord-alarm for	W. M. Whiting	341,298	May 4	469	126	35	590
Grain-binders. Cord-holder for	O. Cooley	352,081	Nov. 2	508	136	37	554
Grain-binders. Ejector for automatic	W. N. Whiteley	348,255	Aug. 31	2541	682	36	964
Grain-binders. Knotter for	W. N. Whiteley	346,393	July 27	2266	580, 581	36	433
Grain-binders. Knotting apparatus for	J. F. Appleby	352,602	Nov. 16	1219	330, 331	37	701
Grain-binders. Tension device for	E. Pridmore	347,376	Aug. 17	1259	334	36	713
Grain-binders. Tension device for	G. W. B. Smith	352,429	Nov. 9	998	269	37	656
Grain-binding machine	W. Butterfield	333,922	Jan. 5	580	157, 158, 159, 160	34	109
Grain-binding machine	A. C. Miller	339,573	Apr. 6	681	166, 167	35	123
Grain-cleaner	C. R. Bomboy	351,156	Oct. 19	1509	395	37	289
Grain-cleaner	C. Tupper	338,236	Mar. 16	1898	477	34	1271
Grain. Cleaning	B. D. Crocker	343,624	June 15	1251	314	35	1248
Grain cleaning and scouring machine	M. Crawford	348,826	Sept. 7	380	103, 104	36	1118
Grain-cleaning apparatus	B. D. Crocker	343,891	June 15	1608	409, 410	35	1314
Grain-cleaning machine	M. Crawford	348,890	Sept. 7	476	126, 127	36	1135
Grain-conveyer	H. Delhaye	351,854	Nov. 2	184	50	37	492
Grain-conveyer	J. Nelson	349,233	Sept. 14	959	245	36	1228
Grain, &c. Conveyer for	G. A. Gilbert and R. Wilcox	349,390	Sept. 21	1173	304	36	1278
Grain-cradle	W. B. Smith	352,372	Nov. 9	925	248	37	638
Grain-cutting machine	G. H. Cormack	351,312	Oct. 19	1719	451, 452	37	327
Grain-cutting machinery	A. Wemple	339,720	Apr. 13	922	225, 226	35	168
Grain. Device for trimming	M. F. Seeley	344,602	June 29	2598	673	35	1509
Grain-drier	C. Ehlermann and C. G. Mayer	336,905	Mar. 2	34	9	34	933
Grain-drier	H. R. Foote	333,939	Jan. 5	605	167	34	113
Grain-drier	L. Gathmann	339,874	Apr. 13	1120	275	35	266
Grain-drier	M. L. Mowrer	338,673	Mar. 23	2430	641	34	1384
Grain-drier	C. F. Shedd	334,987	Jan. 26	2072	553	34	404
Grain-drier	F. W. Wiesebrock	333,908	Jan. 5	562	152	34	105
Grain-drier	R. Wiesebrock	348,650	Sept. 7	161	44	36	1076
Grain-drier	A. Wolcott	346,449	July 27	2358	605	36	449
Grain-drill	W. D. Arnett	347,982	Aug. 24	2145	571	36	864
Grain-drill	H. C. Beebe	340,190	Apr. 20	1569	397	35	292
Grain-drill	H. C. Beebe	347,863	Aug. 24	1963	521	36	852
Grain-drill	P. M. Gundlach	351,047	Oct. 19	1366	359	37	262
Grain-drill	S. B. Hart	344,272	June 22	2142	549	35	1418
Grain-drill	J. F. Keller	339,302	Apr. 6	270	67	35	50
Grain-drill	L. Kisner and J. J. Gromme	343,907	June 15	1628	415	35	1318
Grain-drill	C. L. Meinzer	336,420	Feb. 16	1918	503	34	796
Grain-drill	W. P. Penn	336,427	Feb. 16	1929	506	34	797
Grain-drill	C. Russell	335,721	Feb. 9	891	225	34	607
Grain-drill	M. Wonser	337,543	Mar. 9	913	234	34	1096
Grain-drill attachment	J. Courson	340,103	Apr. 20	1435	363	35	268
Grain-drill attachment	J. McLain	335,468	Feb. 2	526	138	34	535
Grain-elevator	M. F. Seeley	336,755	Feb. 23	2378	623	34	884
Grain-elevator. Pneumatic	J. Lewis	351,782	Nov. 2	77	21	37	472
Grain, flour, &c. Feeding mechanism for	C. A. Andrus	353,436	Nov. 30	2397	640	37	940
Grain for fermentation. Preparing whole	C. Andersen and A. Woolner, Jr.	338,579	Mar. 23	2294	601	34	1360
Grain-grader	M. D. Beardslee	353,658	Dec. 7	8	2	37	1008
Grain-huller	A. Dewey and J. Short	346,738	Aug. 3	361	97	36	531

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'ngs	Official Gazette. Vol.	Official Gazette. Page.
Grain hulling and scouring machine	F. B. Rolle	337,284	Mar. 2	542	142	34	1026
Grain. Machine for cleaning	L. M. Smith	345,997	July 20	1715	442	36	321
Grain. Machine for splitting	C. W. Roth	350,945	Oct. 19	1189	316, 317	37	231
Grain. Manufacture of products of lobated	L. Gathmann	342,249	May 18	1742	.....	35	848
Grain. Mechanism for extracting steel and iron fragments from	F. E. Fisher	336,402	Feb. 16	1895	496	34	791
Grain-meter	W. H. Taylor and E. Stockwell	339,824	Apr. 13	1050	260, 261	35	192
Grain-meter. Automatic	E. N. Williamson	342,854	June 1	106	27	35	1025
Grain. Pneumatic apparatus for transferring	J. Lewis	351,783	Nov. 2	78	21, 22	37	473
Grain products. Preparing	G. H. Cormack	353,924	Dec. 7	394	104	37	1079
Grain-register	L. Nottingham	337,859	Mar. 16	1312	340	34	1174
Grain-register	F. Stanton	344,013	June 22	1777	458	35	1352
Grain-screen	F. Wulfert	348,090	Aug. 24	2296	615	36	913
Grain-scourer	C. B. Slater	343,402	June 8	941	235	35	1185
Grain. Screw-conveyer for	J. A. Gowans	349,155	Sept. 14	848	217	36	1207
Grain-separating machine	J. Lucas	343,999	June 22	1754	452	35	1348
Grain-separator	J. Bachman	340,752	Apr. 27	2367	623, 624	35	442
Grain-separator	G. A. Dawson	348,515	Aug. 31	2905	781	36	1035
Grain-separator	G. H. Ellsbury	339,631	Apr. 13	794	195	35	146
Grain-separator	W. E. Howarth	340,215	Apr. 20	1604	406	35	299
Grain-separator	C. Kaspar	343,324	June 8	812	204	35	1161
Grain-separator	M. Lavering and E. H. Anspaugh	343,822	June 15	1521	383	35	1297
Grain-separator	A. Lent	336,246	Feb. 16	1681	438	34	751
Grain-separator	C. C. Murphy	341,814	May 11	1163	310, 311	35	733
Grain-separator	H. C. Smith and W. M. Bruce	351,217	Oct. 19	1589	417	37	304
Grain-separator	J. T. and A. E. Smith	347,391	Aug. 17	1281	341	36	717
Grain-separator	F. Wadsworth and H. N. Prentice	334,312	Jan. 12	1168	313	34	225
Grain-separator	D. Young	341,121	May 4	206	63	35	543
Grain separator and cleaner	J. P. Bond	337,234	Mar. 2	470	123	34	1012
Grain-separator and elevator-feeder	B. D. Crocker	343,364	June 8	884	222, 223	35	1175
Grain-separators. Chaff-guide for	D O. Dockendorf	350,298	Oct. 5	265	76	37	54
Grain separators. Fan for	J. Hawk	336,567	Feb. 23	2120	556	34	837
Grain-silo	C. Engrand	349,213	Sept. 14	925	237	36	1222
Graining	J. Hammerl	347,595	Aug. 17	1570	417	36	771
Graining apparatus	J. H. Auble	337,729	Mar. 9	1137	294	34	1136
Granary. Wheat-	J. W. Marker	342,026	May 18	1445	387	35	792
Graphometer. Field-	A. Costiesco	351,690	Oct. 26	2302	598	37	441
Grapple	W. F. Kircher	334,667	Jan. 19	1662	444	34	321
Grapple	W. Spencer	336,498	Feb. 16	2018	529	34	813
Grapple. Drill-shaft	W. Seely	339,021	Mar. 30	2950	780	34	1483
Grappling and dredging bucket	J. H. Hayward	336,408	Feb. 16	1902	498	34	792
Grass-hooks. Manufacture of	G. Nolin	336,819	Feb. 23	2465	647	34	901
Grate	S. W. Alston	351,242	Oct. 19	1622	426	37	310
Grate	F. S. Bissell	351,155	Oct. 19	1508	395	37	289
Grate	L. T. Burnham	344,766	June 29	2969	727	35	1547
Grate	J. Christie	352,223	Nov. 9	736	197	37	601
Grate	W. Fitzgerald	343,447	June 8	1003	250	35	1196
Grate	A. L. Goodenow	351,507	Oct. 26	2040	529	37	392
Grate	G. A. Hagemann	354,785	Dec. 21	1661	439	37	1323
Grate	O. A. Keim	348,129	Aug. 24	2343	629	36	922
Grate	H. W. Merritt	353,875	Dec. 7	318	82, 83	37	1065
Grate	J. Murphy	344,491	June 29	2445	628	35	1479
Grate	S. Smith	350,952	Oct. 19	1197	319	37	233
Grate	H. M. Weaver	347,401	Aug. 17	1292	344, 345	36	719
Grate and feed-water heater. Hollow	D. Jones	340,916	Apr. 27	2579	679, 680	35	481
Grate and grate-bar	F. F. Landis	341,924	May 18	1313	351	35	769
Grate-bar	J. Ashcroft	347,548	Aug. 17	1503	398, 399	36	758
Grate-bar	W. W. Forrest	349,639	Sept. 21	1500	389	36	1343
Grate-bar	C. D. Rogers	344,203	June 22	2051	525	35	1401
Grate-bar	L. Roll	335,540	Feb. 2	624	163	34	552
Grate-bar	N. Ruger	343,922	June 15	1646	422	35	1322
Grate-bar	W. Solt, Sr., and W. D. Kline	333,687	Jan. 5	253	69	34	49
Grate-bar, &c	I. W. Swallow	342,766	May 25	2518	672	35	997
Grate-cover	F. M. Rodes	345,258	July 6	635	161	36	115
Grate. Endless-chain	J. Moore	334,047	Jan. 12	764	210	34	150
Grate. Fire-	G. Jones	347,352	Aug. 17	1225	326	36	707
Grate. Fire-	W. Newburn	354,567	Dec. 21	1335	354	37	1263
Grate. Fire-	C. T. Stephens	345,004	July 6	303	75	36	55
Grate. Fire-	E. J. Story	346,830	Aug. 3	462	127	36	550
Grate. Fire-	C. P. White	342,410	May 25	2010	530	35	903
Grate. Fire-place	C. C. McCloskey, Jr	342,115	May 18	1578	421	35	817
Grate for burning coal-dust	J. Bujac	346,086	July 27	1833	473	36	351
Grate for furnaces, boilers, &c. Rocking or rotating	J. R. Reed	354,230	Dec. 14	854	227	37	1169
Grate for furnaces, heaters, &c	E. McFarland and L. Passmore	337,849	Mar. 16	1299	337	34	1172
Grate. Mantel-	E. W. Williams	353,043	Nov. 23	1835	493	37	824
Grate. Rocking	O. C. Bannister	346,455	Aug. 3	6	2	36	462
Grate. Rotary	J. B. Bossler	346,712	Aug. 3	332	90	36	525
Grate. Stove or furnace	J. B. Jones	347,714	Aug. 17	1753	467	36	804
Grate. Ventilating-	E. A. Jackson	353,066	Nov. 23	1866	504	37	830
Grater	A. Obermeyer	344,005	June 22	1760	453	35	1349
Grater	W. S. Salmon and W. E. Haislett	337,619	Mar. 9	1003	258	34	1114
Grater	M. Schaille	343,141	June 1	530	134	35	1102
Grater. Nutmeg-	L. J Church	337,378	Mar. 9	668	175	34	1056
Grater. Nutmeg-	A. L. Platt	334,279	Jan. 12	1127	302	34	217
Grater. Nutmeg-	J. M. Smyth	334,298	Jan. 12	1153	308	34	222
Grater. Potato-	G. W. Goodale	352,536	Nov. 16	1127	304	37	684
Grater. Vegetable-	P. Blum	334,931	Jan. 26	1997	533	34	392

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Grating. Coal-vault	E. Maratta	350 757	Oct. 12	922	249	37	175
Grating for jails	W. H. Brown and B. F. Haugh	344,242	June 22	2101	537	35	1410
Grating-machine	F. W. Drosten	351,100	Oct. 19	1432	376	37	274
Grating. Window-	P. L. Brocklebank	344,313	May 4	488	132	35	593
Grave-stone support	G. N. Miles	343,671	June 15	1314	329	35	1258
Gravel-elevator. Hydraulic	L. and W. W. Eastlick	351,969	Nov. 2	346	95, 96	37	522
Grease-trap	C. H. Ackerson	350,181	Oct. 5	119	34	37	25
Grease-trap	R. D. Duncan and A. Wallace	346,432	July 27	2327	599	36	444
Grenade extinguisher. Hand-	R. H. C. Valentine	350,647	Oct. 12	781	213	37	149
Grenade. Hand-	C. W. Fowler and E. H. Shelman	347,587	Aug. 17	1555	413	36	768
Griddle	F. L. Carpenter	354 593	Dec. 21	1381	366	37	1271
Griddles, &c. Hinge for cake-	S. A. Gould	340,208	Apr. 20	1595	403	35	297
Gridiron	L. T. Newell	347,822	Aug. 24	1913	509	36	843
Grinding and polishing machine	W. R. Dickson	351,627	Dec. 21	1437	381	37	1284
Grinding and polishing machine	J. R. Donnelly	344,359	June 29	2269	583	35	1447
Grinding and polishing machine	T. C. Root	343,650	June 15	1283	322	35	1253
Grinding apparatus	F. S. White	335,984	Feb. 9	1262	335	34	673
Grinding cutlery. Mechanism for	C. E. Stevens	354,447	Dec. 14	1153	308	37	1224
Grinding-disk for mills	G. and A. Raymond	348,637	Sept. 7	144	40	36	1053
Grinding-machine	L. W. Andrews	341,467	May 18	1240	332	35	755
Grinding-machine	F. Danner and T. P. Egan	350,351	Oct. 5	332	95	37	67
Grinding machine. Lathe-center-	A. H. Randall	349,602	Sept. 21	1457	375	36	1334
Grinding machinery	F. A. Otis	344,919	July 6	173	41	36	32
Grinding machinery	J. D. Storie	340,637	Apr. 27	2204	580	35	414
Grinding-mill	C. Abele	340,271	Apr. 20	1689	430	35	314
Grinding-mill	H. A. Adams	348,607	Sept. 7	104	29, 30	36	1066
Grinding-mill	J. B. Allfree	336,979	Mar. 2	127	34	34	949
Grinding-mill	F. Beall	341,546	May 11	804	214	35	662
Grinding-mill	J. Burns	349,628	Sept. 21	1488	385	36	1341
Grinding-mill	J. F. Custard	348,153	Aug. 24	2381	638, 639	36	929
Grinding-mill	H. Cutler	348,384	Aug. 31	2714	729	36	999
Grinding-mill	W. T. Dougan	347,232	Aug. 10	1043	279	36	664
Grinding-mill	W. R. Eynon	338,221	Mar. 16	1810	472	34	1267
Grinding-mill	N. T. Fitch	345,493	July 13	966	245	36	179
Grinding-mill	L. Iler and W. H. Piper	346,108	July 27	1860	480	36	357
Grinding-mill	L. B. Joy	338,416	Mar. 23	2081	545, 546	34	1323
Grinding-mill	J. R. Kinley	352,135	Nov. 9	607	161	37	579
Grinding-mill	B. S. Lawson	346,854	Aug. 3	501	138	36	558
Grinding-mill	R. Morrell	344,490	June 29	2443	628	35	1479
Grinding-mill	G. and A. Raymond	348,595	Sept. 7	71	20, 21	36	1060
Grinding-mill	G. and A. Raymond	353,710	Dec. 7	82	22, 23	37	1021
Grinding-mill	G. and A. Raymond	354,228	Dec. 14	852	226	37	1169
Grinding-mill	J. H. Russell and A. W. Phelps	341,818	May 11	1168	312	35	734
Grinding-mill	G. F. Simpson	347,968	Aug. 24	2129	567	36	881
Grinding-mill	G. K. Smith	335,391	Feb. 2	425	109, 110	34	517
Grinding-mill	L. B. and C. H. Sprout	346,511	Aug. 3	78	21	36	475
Grinding-mill	A. W. Stevens	354,445	Dec. 14	1152	308	37	1224
Grinding-mill	H. F. Stone	350,509	Oct. 12	577	160	37	112
Grinding-mill	D. C. Stover	347,531	Aug. 17	1477	392	36	753
Grinding-mill or decorticator	J. B. Touya, Fils	333,980	Jan. 5	662	181	34	194
Grinding-mill. Roller	J. B. Allfree	342,671	May 25	2375	628	35	969
Grinding-mill. Roller	J. B. Allfree	354,031	Dec. 7	554	151	37	1107
Grinding-mill. Roller	W. D. Gray	339,161	Apr. 6	60	19	35	14
Grinding-mill. Roller	W. D. Gray	339,162	Apr. 6	61	19	35	14
Grinding-mill. Roller	W. D. Gray	339,163	Apr. 6	63	19	35	14
Grinding-mill. Roller	W. D. Gray	339,164	Apr. 6	64	20	35	15
Grinding-mill. Roller	P. Van Gelder	340,019	Apr. 13	1319	329, 330	35	241
Grinding-mill. Roller	F. Wegmann	339,241	Apr. 6	180	47	35	34
Grinding-mills Feed mechanism for	H. Haire	348,205	Aug. 31	2473	664	36	952
Grinding-mills, &c. Feed mechanism for roller	C. Van Gelder	335,257	Feb. 2	243	64	34	484
Grinding-mills. Feed-regulator for	W. P. Allen	341,439	May 11	655	177	35	633
Grinding-mills, &c. Feeding device for	M. O. Kasson	340,789	Apr. 27	2412	635	35	451
Grinding-mills. Rolls for	J. B. Allfree	342,163	May 18	1634	437	35	828
Grinding molding-cutters. Machine for	E. S. Drake	353,415	Nov. 30	2165	630	37	933
Grinding-rolls. Machine for dressing	F. Messer	334,262	Jan. 12	1104	296	34	213
Grinding-wheels. Guard for tool-	U. Eberhardt	354,543	Dec. 21	1303	346	37	1258
Grindstone tool-holder	J. L. Carr	352,037	Nov. 2	446	121	37	542
Grindstones and frames therefor. Mechanism for hanging and centering	J. M. Childs and D. B. Smith	350,972	Oct. 19	1234	328	37	239
Grindstones. Tool-holder for	H. Cleary	354,690	Dec. 21	1536	405	37	1298
Grip-tester. Hand-	G. B. Fowler	344,095	June 22	1899	486	35	1374
Grooved and barbed rod	W. H. Perry	333,887	Jan. 5	550	144	34	99
Grooving and seaming machine	P. Birch	340,413	Apr. 20	1880	483	35	350
Grooving-machine	I. L. G. Rice	353,376	Nov. 30	2302	615, 616	37	921
Grub-catcher	F. Hulse	355,087	Dec. 28	2082	547	37	1414
Guano-distributer	S. A. Eskew	339,869	Apr. 13	1115	277	35	204
Guano-distributer	C. W. Nicholson	348,656	Sept. 7	215	57	36	1086
Guard: *See* Bridge-guard. Car-guard. Crossing-guard. Cutter-head guard. Dental breath-guard. Elevator-guard. Eyeglass-nose-guard. Fence-guard. Fire-place guard. Key-hole guard. Loom-shuttle guard. Orchard-guard. Railway cattle-guard. Railway foot-guard. Razor-guard. Rein-guard. Saw-guard. Trace and whiffletree guard. Tree-guard. Tug-guard. Window-guard.							
Guard-finger	R. W. Walker	346,568	Aug. 3	148	40	36	489

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Pages.
Guide-board	W. W. Case	354,303	Dec. 14	968	257	37	1189
Guitar	R. F. Flemmings, Jr.	338,727	Mar. 30	2521	667	34	1406
Guitar	J. Klueber	337,337	Mar. 2	611	160	34	1039
Guitars. Capodastro for	J. M. Allen	339,513	Apr. 6	578	138	35	106
Gun. Air-	J. N. Colby	341,884	May 18	1261	338	35	759
Gun. Air-	G. P. Gunn	337,395	Mar. 9	691	180	34	1060
Gun and projectile for throwing life-lines	S. Ingersoll	348,849	Sept. 7	411	111	36	1123
Gun-barrel.	J. K. Ballard	337,916	Mar. 16	1388	360	34	1189
Gun-barrel. Auxiliary	R. Morris	351,333	Oct. 19	1742	458	37	331
Gun-barrel. Auxiliary	R. Morris	351,334	Oct. 19	1743	458, 459	37	331
Gun-barrel cleaner	A. J. Upham	345,818	July 20	1467	379	36	276
Gun-barrels. Machine for finishing	J. M. Clough	337,247	Mar. 2	489	128	34	1016
Gun-barrels while being cleaned. Clamp for holding	F. M. Everett	355,154	Dec. 28	2178	575	37	1433
Gun. Blow-	L. H. Lang and J. W. Hart	344,915	July 6	168	43	36	31
Gun. Breech-loading	D. W. Jansen	341,751	May 11	1079	287, 288	35	717
Gun. Breech-loading	H. M. Quackenbush	336,586	Feb. 23	2145	562	34	841
Gun. Breech-loading	L. N. Walker	354,452	Dec. 14	1159	310	37	1225
Gun. Cane-	F. A. Wardwell	349,864	Sept. 28	1830	473	36	1412
Gun-carriage	H. C. E. Malet	339,795	Apr. 13	1017	251	35	186
Gun-carriage	J. Vavasseur	342,403	May 25	1997	528	35	901
Gun carriage and shield	H. C. E. Malet	347,002	Aug. 10	708	187, 188	36	604
Gun-carriage for revolving turrets	T. R. Timby	344,758	June 29	2799	725	35	1545
Gun carriage. Machine-	J. G. Accles	348,180	Aug. 31	2437	653, 654	36	945
Gun-carriage. Pneumatic	H. A. Spiller	339,589	Apr. 6	725	178	35	126
Gun-case	L. Keller	348,630	Sept. 7	136	38	36	1072
Gun-cleaner	H. W. Gary	352,405	Nov. 9	969	260	37	647
Gun-cleaner	C. A. Sherman	350,847	Oct. 12	1062	284	37	201
Gun. Electric	S. Russell	337,873	Mar. 16	1331	345	34	1178
Gun feeders. Cartridge-charger for machine-	L. F. Bruce	341,371	May 4	561	155	35	606
Gun-locks. Safety-catch for	A. T. Brown and W. L. Smith	350,109	Oct. 5	19	5	37	7
Gun. Machine-	R. Morris	353,231	Nov. 23	2097	561, 562	37	877
Gun. Machine-	T. Nordenfelt	340,725	Apr. 27	2330	613, 614	35	435
Gun. Magazine-	P. A. Altmaier	343,883	June 15	1597	407	35	1311
Gun. Magazine-	E. Amodeo-Salvator	350,098	Oct. 5	3	1, 2	37	3
Gun. Magazine-	A. Burgess	337,239	Mar. 2	476	125	34	1013
Gun. Magazine-	A. Burgess	340,479	Apr. 20	1971	507	35	306
Gun. Magazine-	M. E. Gregg	353,676	Dec. 7	33	9, 10	37	1013
Gun. Magazine-	L. L. Hepburn	354,059	Dec. 7	591	161	37	1114
Gun. Magazine-	J. M. Marlin	334,535	Jan. 19	1477	396	34	287
Gun. Magazine-	I. N. P. Stokes	339,343	Apr. 6	337	82, 83	35	61
Gun. Magazine spring-	S. D. Engle	334,575	Jan. 19	1534	410	34	297
Gun-mounting	J. Vavasseur	345,744	July 20	1361	354, 355	36	258
Gunpowder-press	E. Du Pont	350,048	Sept. 28	2067	534	36	1457
Gun-sight	F. E. Halladay	353,746	Dec. 7	184	50	37	1041
Gun-sight	W. Lyman	341,426	May 4	630	172	35	619
Gun. Spring-	J. G. Baker	343,560	June 15	1161	293	35	1233
Gun. Spring-	R. S. Belisle	342,563	May 25	2222	591	35	942
Gunstock	A. Cottrell	345,120	July 6	444	115	36	81
Gun-wad	H. W. Libbey	341,586	May 11	860	229	35	673
Gun. Water-	J. L. Shaw	334,475	Jan. 19	1397	377	34	273
Guns. Carriage for machine-	E. G. Parkhurst	341,499	May 11	730	197	35	948
Guns. Cartridge-feeder for machine-	L. F. Bruce	343,532	June 8	1110	280	35	1216
Guns. Cartridge-feeder for machine-	L. F. Bruce	351,960	Nov. 2	331	92	37	520
Guns. Cartridge-index for magazine-	E. Maynard	343,471	June 8	1042	260	35	1203
Guns. Cocking mechanism for breach-loading	W. H. Davenport	334,570	Jan. 19	1536	408	34	296
Guns. Lock mechanism for concealed-hammer	A. T. Brown	345,362	July 13	750	197	36	146
Guns. Recoil mechanism for	H. S. Maxim	347,945	Aug. 24	2090	555, 556	36	875
Guns. Trigger attachment for double	C. E. Burgans	344,896	July 6	143	36	36	26
Gussets. Attaching	I. H. Mambert	347,822	Aug. 24	1999	530	36	857
Gutter-beading device	P. Shackleton	348,423	Aug. 31	2769	743, 744	36	1016
Gypsum. Calcining	E. W. Marsh	343,181	June 8	597	149	35	1124
Habit. Lady's riding-	A. F. Müller	348,573	Sept. 7	52	15	36	1057
Hæmoglobinometer	E. F. Von Marxow	353,098	Nov. 23	1913	514	37	841
Hair-clipper	J. M. Pfaudler	351,885	Nov. 2	222	63	37	499
Hair-crimper	G. H. Blakesley	348,303	Aug. 31	2553	686	36	966
Hair-crimper	J. Dvorak	339,087	Mar. 30	3039	802	34	1497
Hair-crimper	I. W. Heysinger	347,177	Aug. 10	970	259	36	652
Hair-crimper	D. and R. Jordan	350,252	Oct. 5	210	60	37	44
Hair-curling device	K. A. Williams	352,022	Nov. 2	424	115	37	537
Hair-dressing appliance	G. H. Blakesley	345,024	July 6	326	82	36	60
Hair-pin	G. C. Overhiser	348,138	Aug. 24	2355	632	36	924
Hair-pins. Machine for making	G. A., A. S., and H. J. Spratt	350,900	Oct. 12	1132	301	37	213
Hair-roll	J. L. Wells	337,642	Mar. 9	1032	265	34	1119
Hair-tonic	L. P. Federmeyer	338,942	Mar. 30	2820	.....	34	1461
Hair-tonic	D. Tope	352,008	Nov. 23	1675	.....	37	796
Halter	E. R. Michaelis	339,906	Apr. 13	1290	322	35	237
Halter	M. N. Smith	352,371	Nov. 9	924	248	37	637
Halter	H. Wood	341,200	May 4	316	80	35	563
Halter attachment	L. B. Kitchel	348,166	Aug. 24	2400	644	36	933
Halter. Chain	J. W. Collie	354,394	Dec. 14	1084	290	37	1212
Halter-trimming	E. Dening	334,755	Jan. 26	1785	474	34	352
Hame	C. H. Allen	333,988	Jan. 12	677	185	34	135
Hame	R. Cameron	340,697	Apr. 27	2289	603	35	428
Hame	W. E. Dippert	354,628	Dec. 21	1439	382	37	1281
Hame	B. Goessmann	335,123	Feb. 2	31	10	34	446

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hame	H. A. Hughes	334,775	Jan. 26	1808	481	34	357
Hame	J. F. Knorr	337,338	Mar. 2	612	160	34	1039
Hame	J. Letchworth	349,891	Sept. 28	1864	481	36	1419
Hame	C. Roehl	350,156	Oct. 5	83	24	37	18
Hame attachment	J. W. Ammon	337,649	Mar. 9	1040	267	34	1129
Hame attachment	J. Baker	342,726	May 25	2465	653	35	986
Hame attachment	C. E. Carr	341,404	May 4	608	166	35	615
Hame attachment	J. Letchworth	349,892	Sept. 28	1865	481	36	1419
Hame attachment	F. A. Thompson	352,432	Nov. 9	1001	270	37	653
Hame-chime	R. A. Wooding	349,623	Sept. 21	1481	383	36	1339
Hame-clip	E. Barnard	334,411	Jan. 19	1305	353	34	256
Hame-clip	P. W. Corcoran	353,249	Nov. 23	2121	568	37	882
Hame-clip staple and tug-iron	R. W. Jones	338,751	Mar. 30	2559	676	34	1413
Hame-coupling	W. A. Smith and J. H. Hughes	336,763	Feb. 23	2390	626	34	887
Hame-fastener	D. B. Baker	348,711	Sept. 7	245	65	36	1092
Hame-fastener	J. P. Duthie	344,360	June 29	2271	584	35	1448
Hame-fastener	S. V. Halloway	346,908	Aug. 10	591	158	36	382
Hame-fastener	J. H. Hill	336,111	Feb. 16	1457	384	34	714
Hame-fastener	I. Howland	339,653	Apr. 13	822	202	35	151
Hame-fastener	W. Ingalls and F. A. Bailey	352,542	Nov. 16	1135	306	37	686
Hame-fastener	J. R. Kinsley	341,755	May 11	1086	289	35	718
Hame-fastener	A. J. McCord	351,788	Nov. 2	85	23	37	474
Hame-fastener	D. G. Miller	354,430	Dec. 14	1128	302	37	1220
Hame-fastener	H. C. Minton	335,375	Feb. 2	406	104	34	514
Hame-fastener	M. Noe	337,699	Mar. 9	1101	284	34	1130
Hame-fastener	W. W. Pearce	341,681	May 11	994	263	35	700
Hame-fastener	W. H. Tillou	342,547	May 25	2203	584	35	938
Hame-fastener, Metallic	A. L. Geer	341,743	May 11	1052	285	35	715
Hame-fastening	J. C. Hackett	345,134	July 6	468	119	36	85
Hame-fastening	R. C. and C. W. Uecke	347,076	Aug. 10	837	223	36	627
Hame-lock	L. Anderson	335,985	Feb. 9	1265	335	34	673
Hame-tip	T. Brabson	352,606	Nov. 16	1224	332	37	703
Hames, Guard and trace attachment for harness-	J. Douglass	339,629	Apr. 13	791	194	35	143
Hammer	C. J. Grellner	341,474	May 11	705	189	35	643
Hammer	C. J. Grellner	341,475	May 11	706	189	35	643
Hammer	C. J. Grellner	347,932	Aug. 24	2070	550	36	871
Hammer	G. F. Hall	338,404	Mar. 23	2067	542	34	1320
Hammer and planer, Combined	S. G. Pillsbury	352,570	Nov. 16	1174	317	37	692
Hammer. Bush-	C. F. Brent and A. Lang	351,039	Oct. 19	1352	355	37	260
Hammer. Bush-	I. V. Mead	345,598	July 13	1140	291	36	211
Hammer. Bush-	W. Oppy	338,865	Mar. 30	2712	713	34	1441
Hammer. Copper-tipped	H. A. Randall	334,283	Jan. 12	1132	304	34	218
Hammer. Drop-	F. M. Leavitt	349,007	Sept. 28	2020	522	36	1448
Hammer. Foot-power	M. Headen	350,363	Oct. 5	340	100	37	71
Hammer-forming machine	J. Hausman	342,069	May 18	1417	373	35	787
Hammer. Magnetic tack-	A. R. Robertson	352,070	Nov. 2	492	133	37	551
Hammer. Pneumatic	C. A. Arns	337,728	Mar. 9	1136	294	34	1136
Hammer. Pneumatic	C. Frederick and C. N. Trump	348,837	Sept. 7	397	107	36	1121
Hammer. Pneumatic	E. N. Trump	348,870	Sept. 7	445	119	36	1130
Hammer. Power-	M. Deering	355,146	Dec. 28	2167	574	37	1431
Hammer. Power-	T. V. Norris	341,045	May 4	98	29	35	523
Hammer. Power-	H. St. Lawrence	335,394	Feb. 2	432	111	34	518
Hammer. Rotary	P. J. Kearns	351,867	Nov. 2	200	56	37	495
Hammers. Attachment for trip-	G. H. Hathorn	354,192	Dec. 14	806	214 / 215	37	1161
Hammers. Die and die-block for forge-	J. H. Baker. (Reissue)	10,680	Jan. 26	2241	594	34	434
Hammers. Die for making	H. H. Warren	348,362	Aug. 31	2674	720	36	992
Hammock	J. K. Fox	350,878	Oct. 12	1099	293	37	208
Hammock	C. Shepardson	334,920	Jan. 26	2076	554	34	405
Hammock	G. E. Woodbury	342,668	May 25	2368	626	35	968
Hammock-chair	A. O. Hubbard	339,182	Apr. 6	89	26	35	18
Hammock-chair	L. P. Thompson	340,687	Apr. 27	2274	599	35	426
Hammock-spreader	O. H. Buckley	341,793	May 11	1132	299	35	726
Hammock-stand. Portable folding	C. L. Rudd and E. J. Manning	337,792	Mar. 9	1213	315	34	1149
Hammock-stick	J. F. Thayer	339,345	Apr. 6	333	83	35	63
Hammock stretcher or adjuster	E. C. Cook	337,815	Mar. 16	1258	326	34	1165
Hammock-support	H. A. Adams	340,071	Apr. 20	1393	351	35	261
Hammock-support	G. E. Stevens	352,842	Nov. 16	1541	415 / 416	37	761
Hammock-supporter	J. Glennon	340,216	Sept. 14	928	238	36	1222
Hammocks. Suspension device for	I. E. Palmer	340,239	Apr. 20	1639	415	35	305
Hammocks. Suspension device for	I. E. Palmer	344,495	June 29	2451	630	35	1480
Hams, &c. Device for suspending	R. S. Sinclair	343,499	June 8	1075	260	35	1209
Hand and foot warmer	H. A. Bierley	350,342	Oct. 5	325	92	37	66
Hand-bag	C. H. Buchanan	338,475	Mar. 23	2160	564	34	1338
Hand-bag, pocket-book, and purse frames. Fastening for	G. Hood	337,682	Mar. 9	1076	278	34	1126
Hand-bag, pocket-book, and purse frames. Fastening for	L. B. Prahar	337,787	Mar. 9	1208	314	34	1148
Hand-bag, pocket-book, and purse frames. Fastening for	L. B. Prahar	337,789	Mar. 9	1209	315	34	1149
Hand-grenade extinguisher	W. W. Luyster	338,604	Mar. 23	3329	610	34	1367
Hand-jack	W. J. Robertson	343,341	June 8	845	213	35	1167
Hand-rake	T. D. Davis	337,932	Mar. 16	1412	366	34	1193
Hand-rake	T. D. Davis	337,933	Mar. 16	1415	366	34	1193
Hand-rest	J. F. Lash	354,712	Dec. 21	1554	412	37	1304
Handkerchief-box	L. P. Shuler-Shutz	335,723	Feb. 9	898	237	34	608
Handkerchief-display case	H. D. Greenwald	345,300	July 13	699	176	36	132
Handkerchief-exhibitor	J. N. Miller	337,422	Mar. 9	741	190	34	1068
Handle	F. B. Smith	334,993	Jan. 26	2080	555	34	406
Handle for cutlery and other articles	J. H. La Fave	348,330	Aug. 31	2637	711	36	984
Handle for satchels, &c	W. Roemer	334,196	Jan. 12	1003	267	34	194
Handle for screw-drivers and other tools	J. C. Spencer	354,359	Dec. 14	1045	280	37	1205
Handles. Manufacturing ornamental wooden	F. and C. F. Mankey	353,364	Nov. 30	2287	610	37	918

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Handle:							
See Auger-handle. Furniture-handle.							
Bicycle-handle. Knife-handle.							
Blower-handle. Milk-can handle.							
Broom-handle. Plow-handle.							
Brake-rod handle. Rein-handle.							
Can-handle. Sad-iron handle.							
Coffee-pot handle. Saw-handle.							
Coffin-handle. Shawl-strap handle.							
Cutlery-handle. Shovel and spade handle.							
Drawer-handle. Tea and coffee pot handle.							
Extension-handle. Tool-handle.							
File-handle. Umbrella-handle.							
Hanger:							
See Adjustable hanger. Pants-hanger.							
Card or print hanger. Picture-hanger.							
Coat-hanger. Picture-frame hanger.							
Door-hanger. Pipe-hanger.							
Eaves-trough hanger. Shaft-hanger.							
Slipper-hanger.							
Garment-hanger. Spring-hanger.							
Lamp-hanger. Trouser-hanger.							
Harmonica-holder	G. A. Morgenthaler	343,833	June 15	1532	387	35	1299
Harness	R. H. Coatsworth	347,229	Aug. 10	1040	277	36	664
Harness	F. Fanyo and W. H. Wright	335,440	Feb. 2	492	128	34	530
Harness	W. H. Gibbens	340,304	Apr. 20	1735	442	35	322
Harness	F. L. Henry	343,583	June 15	1197	301	35	1238
Harness	W. D. Hill	343,315	June 8	789	197	35	1159
Harness	A. King	338,980	Mar. 30	2872	760	34	1470
Harness	C. La Dow	339,902	Apr. 13	1156	287, 288	35	213
Harness	W. Olewine	353,879	Dec. 7	325	85	37	1066
Harness	S. A. Prescott	339,209	Apr. 6	134	36	35	26
Harness	J. F. Randall	339,929	Apr. 13	1193	297	35	219
Harness	H. T. Richmond	336,494	Feb. 16	2015	528	34	812
Harness	D. L. Shafer	339,022	Mar. 30	2950	780	34	1483
Harness	A. Sherwood	333,556	Jan. 5	76	22	34	17
Harness	J. W. Spangler	338,797	Mar. 30	2620	690	34	1423
Harness	J. Stanley	350,216	Oct. 5	172	50	37	35
Harness	A. W. Tourgee	333,978	Jan. 5	659	180	34	124
Harness	A. W. Tourgee	345,459	July 13	920	231	36	171
Harness	A. W. Tourgee and L. D Jennings	347,210	Aug. 10	1011	269	36	659
Harness	J. H. Whitaker	336,367	Feb. 16	1847	484	34	782
Harness	J. H. Whitaker	350,854	Oct. 12	1070	286	37	202
Harness. Apparatus for operating the check-reins of	R. A. Baldwin	351,846	Nov. 2	173	47	37	490
Harness attachment	J. W. Cheney	351,851	Nov. 2	180	49	37	492
Harness attachment	K. F. Rice	341,507	May 11	742	200	35	650
Harness attachment for vehicles	R. L. Creelo, F. Koch, and G. W. Miller.	344,944	July 6	202	52	36	37
Harness. Back-pad for	J. P. Miller	341,495	May 11	726	195	35	647
Harness. Breast collar or strap for	A. G. Day	339,271	Apr. 6	223	56	35	42
Harness breast-strap	I. A. Miller	334,128	Jan. 12	880	241	34	171
Harness bridle attachment	H. H. Brandes	347,464	Aug. 17	1386	369	36	736
Harness. Check-hook attachment for	A. A. Allen	351,951	Nov. 2	323	89	37	518
Harness-checks. Safety-loop for	E. K. Dennis	353,484	Nov. 30	2465	659	37	952
Harness-coupling	F. M. Boring	352,219	Nov. 9	732	196	37	600
Harness-coupling	N. W. Hunter	333,634	Jan. 5	178	48	34	35
Harness. Draft-equalizing	G. B. Freeman	347,290	Aug. 10	1126	302	36	680
Harness. Hip-strap attachment for	S. S. Sargeant	342,229	May 18	1715	456	35	843
Harness holdback attachment	C. R. Miller	334,883	Jan. 26	1939	516	34	380
Harness-hook	J. H. O'Donnell	350,316	Oct. 5	288	82	37	58
Harness-loop	E. Barnard	341,717	May 11	1039	275	35	709
Harness-loop	J. Fischer	345,039	July 6	343	86	36	63
Harness loop and bar	J. W. Ropp	336,594	Feb. 23	2156	564	34	843
Harness. Loop-bar for	N. A. Gardiner	349,707	Sept. 28	1599	413	36	1368
Harness-mountings. Fastener for	E. E. Hardy and S. A. Wall	345,428	July 13	881	219	36	164
Harness-ornament	H. Beebee	337,732	Mar. 9	1141	296	34	1137
Harness-pad	W. H. Bennet	343,424	June 8	966	241	35	1190
Harness-pad	J. Pendergast	335,477	Feb. 2	537	140	34	537
Harness-pad machine	J. W. Jones	348,337	Aug. 31	2634	710	36	984
Harness-pad press	J. Hughes	342,259	May 18	1760	467	35	852
Harness-pad tree	R. J. Welles	348,253	Aug. 31	2529	682	36	964
Harness-ring	J. F. Smith	338,568	Mar. 23	2280	598	34	1358
Harness ring-holder	G. W. Swinehart	337,031	Mar. 2	204	54	34	963
Harness-rosette	W. J. Bitter	339,849	Apr. 13	1089	271	35	200
Harness-rosette	E. F. Pfueger	339,926	Apr. 13	1189	296	35	219
Harness-rosette	G. Zahn	339,510	Apr. 6	574	137	35	105
Harness. Strap-plate for	C. R. Miller	352,996	Nov. 23	1757	471	37	810
Harness-trace	E. O. Darr	346,535	Aug. 3	109	29	36	481
Harness-trimming	G. F. Eberhard	334,006	Jan. 12	701	193	34	139
Harness-trimming	G. F. Eberhard	334,007	Jan. 12	702	193	34	139
Harness-trimming	W. F. Graham	351,433	Oct. 26	1925	501	37	369
Harness. Wear-plate for	L. Hartson	336,313	Feb. 16	1775	464	34	768
Harrow	H. W. Alshouse	354,963	Dec. 28	1907	503	37	1383
Harrow	J. H. Anderson	349,557	Sept. 21	1398	362	36	1322
Harrow	J. H. Barley	339,835	Apr. 13	1069	266	35	196
Harrow	C. A. Brostrom	334,342	Jan. 12	1212	327	34	233
Harrow	W. Carleton	341,451	May 11	676	182	35	637
Harrow	P. C. and I. A. Carstensen	353,440	Nov. 30	2402	642	37	940
Harrow	J. M. Childs	346,266	July 27	2091	538	36	400
Harrow	J. M. Childs	348,544	Sept. 7	5	2	36	1049
Harrow	G. F. Clark	354,772	Dec. 21	1643	435	37	1320
Harrow	A. B. Clippinger	353,734	Dec. 7	117	32	37	1028
Harrow	B. C. Converse	346,895	Aug. 10	569	152, 153	36	578

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Harrow	R. Cox	350,295	Oct. 5	263	76	37	54
Harrow	G. G. Crowley	333,926	Jan. 5	590	161 162	34	111
Harrow	A. C. Evans	336,906	Mar. 2	36	9	34	933
Harrow	W. S. A. Graham	346,744	Aug. 3	366	98	36	532
Harrow	J. T. Hamilton	351,175	Oct. 19	1540	403	37	295
Harrow	S. A. D. Hartman	339,408	Apr. 6	420	103	35	78
Harrow	J. Hildesheim	347,106	Aug. 10	874	231	36	634
Harrow	W. Hill	353,944	Dec. 7	424	114 115	37	1084
Harrow	D. B. Hoisington	354,790	Dec. 21	1665	440	37	1324
Harrow	T. B. Hussey	346,372	July 27	2233	573	36	428
Harrow	J. A. Kern	350,683	Oct. 12	832	224	37	158
Harrow	J. C. Lafrenz	339,432	Apr. 6	455	111	35	85
Harrow	W. J. Lane	338,531	Mar. 23	2232	586	34	1350
Harrow	C. Lanner	336,415	Feb. 16	1913	501	34	795
Harrow	L. Mangold and C. Grimm	346,117	July 27	1869	483	36	358
Harrow	F. J. Marshal	334,180	Jan. 12	962	261	34	186
Harrow	W. E. McCann	344,665	June 29	2677	695	35	1525
Harrow	P. Meyer	340,236	Apr. 20	1635	414	35	305
Harrow	J. A. Minger	337,186	Mar. 2	409	106	34	1001
Harrow	L. Newton	342,031	May 18	1451	388	35	793
Harrow	M. S. O'Neil	338,768	Mar. 30	2584	681	34	1417
Harrow	J. G. Owen	353,079	Nov. 23	1880	507	37	833
Harrow	J. M. Pearson	335,617	Feb. 9	744	198	34	580
Harrow	J. R. Pile	353,001	Nov. 23	1765	474 475	37	812
Harrow	E. D. and O. B. Reynolds	346,315	July 27	2159	555	36	413
Harrow	W. W. Robinson	343,527	June 8	1104	278	35	1214
Harrow	T. Rogers	352,983	Nov. 23	1737	465 466	37	807
Harrow	H. H. Sater	334,054	Jan. 12	775	212	34	152
Harrow	E. C. Sherwin	349,006	Sept. 14	646	167	36	1169
Harrow	J. A. Sprunger	354,262	Dec. 14	911	240	37	1178
Harrow	E. F. Stoddard	347,530	Aug. 17	1473	390 391	36	752
Harrow	E. F. Stoddard	347,744	Aug. 17	1791	477	36	811
Harrow	E. F. Stoddard	347,745	Aug. 17	1793	478	36	811
Harrow	H. M. Strange	346,959	Aug. 10	658	175	36	594
Harrow	T. B. Swan	344,876	July 6	115	28	36	21
Harrow	M. C. Theisen	352,279	Nov. 9	808	216	37	614
Harrow	J. Underwood	354,497	Dec. 14	1226	328	37	1237
Harrow	O. C. Van Ness	353,611	Nov. 30	2655	710	37	988
Harrow	W. V. Walker	352,017	Nov. 2	418	113	37	536
Harrow	J. Weckman	346,521	Aug. 3	93	25	36	478
Harrow	J. W. West	349,548	Sept. 21	1388	359	36	1320
Harrow	L. A. Weyburn	352,383	Nov. 9	942	252	37	641
Harrow	A. M. Word	352,284	Nov. 9	814	218	37	615
Harrow and cultivator	P. Jacobus	336,051	Feb. 9	1358	359	34	690
Harrow and cultivator. Combined	D. Kessler	350,684	Oct. 12	834	224	37	158
Harrow and leveler. Rocking toothed	J. W. Geyer	347,791	Aug. 24	1861	495	36	833
Harrow and pulverizer	J. B. Brewer and J. H. Corsbie	352,440	Nov. 9	1011	273	37	655
Harrow and pulverizer attachment	J. T. Strong	349,374	Sept. 21	1150	298	36	1274
Harrow and pulverizer. Combined	R. Cleary	336,794	Feb. 23	2450	639	34	894
Harrow and replanter. Combined	D. A. Spitler	338,114	Mar. 16	1671	434	34	1240
Harrow and seed-planter. Combined	W. Pommerenke	337,991	Mar. 16	1500	389	34	1208
Harrow and seeder. Combined disk	S. G. Randall	333,670	Jan. 5	224	62	34	44
Harrow and seeder. Disk	A. Corbin, Jr.	351,625	Oct. 26	2215	573	37	423
Harrow attachment	W. A. Leech and J. Little	337,592	Mar. 9	973	249	34	1107
Harrow, cotton-chopper, and cultivator. Combined	S. Belt	347,765	Aug. 24	1824	486	36	825
Harrow. Disk	J. S. Corbin	341,888	May 18	1267	339 340	35	760
Harrow. Disk	C. La Dow	338,982	Mar. 30	2874	760 761 762	34	1470
Harrow. Disk	C. La Dow	343,132	June 1	519	132	35	1100
Harrow. Disk	L. E. Phelps and R. K. Swift	337,017	Mar. 2	186	49	34	959
Harrow. Disk	L. A. Richards	348,693	Sept. 7	224	59	36	1088
Harrow. Disk	G. R. Thomson	352,210	Nov. 9	717	192	37	598
Harrow. Disk	A. J. Tschautz	344,293	June 22	2176	558	35	1423
Harrow or cultivator	N. C. Orrick	352,998	Nov. 23	1760	472 473	37	811
Harrow or cultivator tooth	T. E. Davies	350,724	Oct. 12	883	236	37	168
Harrow or cultivator tooth	F. F. Wolgamuth	349,967	Sept. 28	1963	507	36	1438
Harrow. Reversible	W. S. Pates	350,853	Oct. 12	1120	298	37	211
Harrow. Revolving	J. D. Schibli	353,597	Nov. 30	2636	704	37	984
Harrow, seeder, and roller. Combined	O. Gravelle	339,763	Apr. 13	978	241 242	35	179
Harrow. Side	W. W. Pope	352,982	Nov. 23	1736	465	37	806
Harrow. Spring	L. A. Manchester	343,717	June 15	1399	348	35	1273
Harrow. Spring-tooth	C. La Dow	338,156	Mar. 16	1752	458	34	1257
Harrow. Spring-tooth	C. La Dow	354,557	Dec. 21	1322	351	37	1260
Harrow. Sulky	M. S. Cline	347,773	Aug. 24	1837	489	36	828
Harrow. Sulky	J. P. Hoffman	352,244	Nov. 9	762	203	37	605
Harrow. Sulky	G. H. Robb	345,603	July 13	1145	293	36	212
Harrow-teeth. Locking device for	B. C. Bradley	344,809	July 6	8	2	36	4
Harrow-tooth	W. Harty	337,951	Mar. 16	1447	375	34	1199
Harrow-tooth	J. B. Wilson	343,263	June 8	711	176	35	1144
Harrow-tooth holder	J. E. Beebe	344,804	July 6	2	1	36	3
Harrow. Wheel	H. L. Easley	334,165	Jan. 12	943	255	34	182
Harrow. Wheel	C. La Dow	337,773	Mar. 9	1190	309 310	34	1146
Harrow. Wheel	C. La Dow, J. J. Budlong, and L. P. Hoyt.	338,086	Mar. 16	1623	422	34	1231

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Harrow. Wheel	R. Wheeler	339,957	Apr. 13	1229	306	35	225
Harvester	J. F. Appleby	348,259	Aug. 31	2546	683, 684	36	965
Harvester	J. F. Appleby	348,260	Aug. 31	2547	684, 685	36	966
Harvester	W. R. Baker	343,147	June 1	538	136, 137	35	1104
Harvester	R. Brown	343,002	June 1	309	79, 80	35	1063
Harvester	F. Cook	354,397	Dec. 14	1086	291, 292	37	1212
Harvester	W. J. Dean	344,254	June 22	2116	541	35	1413
Harvester	L. J. Gilman, C. W. Frost, and C. H. Foster.	339,761	Apr. 13	975	241	35	178
Harvester	A. Hoover and R. Brown	348,495	Aug. 31	2871	773	36	1029
Harvester	D. Houser	354,421	Dec. 14	1115	299, 300	37	1218
Harvester	S. D. Locke	339,561	Apr. 6	662	161, 162	35	119
Harvester	S. D. Locke	339,562	Apr. 6	667	162, 163	35	120
Harvester	D. C. Matteson	333,533	Jan. 5	50	15	34	12
Harvester	F. D. and J. S. Mercer	340,808	Apr. 27	2441	642	35	457
Harvester	H. and J. H. Smith	343,078	June 1	428	110	35	1085
Harvester	W. N. Whiteley	347,677	Aug. 17	1702	454	36	795
Harvester	W. N. Whiteley and W. Bayley	345,094	July 6	410	104, 105	36	75
Harvester	H. S. Wilkinson	337,542	Mar. 9	912	233, 234	34	1096
Harvester	D. Young	353,344	Nov. 30	2256	603	37	912
Harvester and binder	H. Black and A. T. Miller	347,286	Aug. 10	1119	300, 301	36	679
Harvester and binder	W. N. Whiteley and W. Bayley	337,220	Mar. 2	449	117	34	1009
Harvester and binder. Combined	J. F. Appleby	336,075	Feb. 16	1403	371, 372	34	705
Harvester and binder. Combined	J. F. Appleby	339,126	Apr. 6	5	2, 3	35	4
Harvester and binding machine	C. Colahan	340,095	Apr. 20	1426	360, 361	35	266
Harvester and husker. Corn	G. B. Snow	353,384	Nov. 30	2315	619	37	923
Harvester and thrasher. Combined	J. P. Descalzo	350,667	Oct. 12	805	219, 220	37	154
Harvester attachment for wagons. Corn	A. D. Osgood	350,443	Oct. 5	466	131, 132	37	90
Harvester. Automatic grain-binding	J. J. Dewey	342,287	May 18	1809	479	35	860
Harvester. Bean	F. W. Miller	345,981	July 20	1692	436	36	317
Harvester-binder	J. H. Grout and S. Oakley	343,661	June 15	1295	325	35	1255
Harvester-binder	J. Harris and J. Lucas	349,994	Sept. 28	2002	517	36	1445
Harvester butt-board	L. Miller	352,557	Nov. 16	1155	312	37	689
Harvester. Cane and corn	B. B. Bollinger	347,316	Aug. 17	1169	313, 314	36	697
Harvester. Corn	H. S. Bartholomew	353,476	Nov. 30	2454	655, 656	37	950
Harvester. Corn	C. F. Bassett	335,877	Feb. 9	1112	294, 295	34	648
Harvester. Corn	S. E. Ferguson	348,730	Sept. 7	266	71, 72	36	1097
Harvester. Corn	C. J. Hartley	348,627	Sept. 7	131	37	36	1071
Harvester. Corn	W. H. Karicofe	343,768	June 15	1461	365, 366	35	1285
Harvester. Corn	R. H. Morrow	347,301	Aug. 10	1146	306, 307	36	684
Harvester. Corn	H. Roberts	340,365	Apr. 20	1827	468	35	340
Harvester. Corn	J. W. Terman	346,134	July 27	1898	491	36	364
Harvester. Corn	H. F. Urie	345,195	July 6	544	139	36	99
Harvester. Corn	J. I. Wolf	335,170	Feb. 2	105	28, 29	34	460
Harvester. Corn and cane	H. W. Matthews	351,877	Nov. 2	212	60, 61	37	497
Harvester. Cotton	C. T. Mason, Jr.	345,246	July 6	614	156, 157	36	111
Harvester. Cotton	W. G. Sears	339,482	Apr. 6	533	129	35	99
Harvester. Cotton	W. G. Sears	353,466	Nov. 30	2438	651, 652	37	947
Harvester. Cotton	C. E. Wright	339,725	Apr. 13	929	228	35	169
Harvester. Cotton	C. E. Wright	349,776	Sept. 28	1714	442	36	1388
Harvester-cutter	D. Benett	348,261	Aug. 31	2551	686	36	966
Harvester-cutter	G. C. Hatch	354,786	Dec. 21	1661	439	37	1324
Harvester-cutter	L. Study	351,004	Oct. 19	1307	343	37	252
Harvester cutter-bar	J. H. Van De Water	353,899	Dec. 7	358	95	37	1072
Harvester-cutters. Clearer attachment for	C. Potee	334,723	Jan. 19	1739	463	34	336
Harvester cutting apparatus	C. Schmidt	337,625	Mar. 9	1010	259	34	1115
Harvester cutting apparatus	D. Shields	336,670	Feb. 23	2276	594	34	865
Harvester-dropper	W. R. Baker	349,267	Sept. 14	998	255	36	1236
Harvester-elevator	L. L. Mayberry	351,190	Oct. 19	1558	410	37	299
Harvester elevator. Grain	L. Myers	349,116	Sept. 14	802	203	36	1197
Harvester-finger and finger-bar	T. S. Brown	353,534	Nov. 30	2543	678	37	966
Harvester finger-bar attachment	M. E. Hamilton and E. L. Perrigo	334,874	Jan. 12	1249	337	34	239
Harvester finger-bars. Manufacture of	J. H. Jones	353,636	Nov. 30	2696	720	37	994
Harvester-fingers. Machine for finishing	J. F. Webster	337,802	Mar. 9	1227	319	34	1152
Harvester for sugar-cane, corn, &c.	S. H. Pearcy	353,758	Dec. 7	144	39, 40	37	1033
Harvester-frame	W. N. Whiteley	348,304	Aug. 31	2609	702	36	978
Harvester. Grain	H. N. Kennedy	346,552	Aug. 3	129	35	36	485
Harvester. Grain	H. N. and B. A. Kennedy and J. F. Steward.	351,268	Oct. 19	1655	434, 435	37	315
Harvester. Grain	L. W. Noyes	333,536	Jan. 5	54	16	34	13
Harvester. Grain	W. F. Olin	342,969	June 1	273	71	35	1056
Harvester. Grain-binding	W. R. Baker	342,165	May 18	1636	437, 438	35	829

Alphabetical list of inventions—Continued.

Invention	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dec	Official Gazette. Vol.	Official Gazette. Page.
Harvester. Grain-binding	A. O. Carman	339,144	Apr. 6	34	11, 12, 13	35	9
Harvester Grain-binding	C. Colahan	340,096	Apr. 20	1427	361	35	267
Harvester. Grain-binding	O. Cooley	350,812	Oct. 12	1008	270	37	190
Harvester. Grain-binding	L Miller	335,610	Feb. 9	734	195, 196	34	579
Harvester. Grain-binding	L. Miller	341,675	May 11	985	260	35	607
Harvester Grain-binding	L. Miller	341,676	May 11	987	261	35	608
Harvester. Grain-binding	J. F. Seiberling	335,722	Feb. 9	892	235, 236, 237	34	607
Harvester. Grain-binding	J. F. Seiberling	348,353	Aug. 31	2663	717, 718	36	990
Harvester grain-wheel	H. E. Pridmore	343,544	June 8	1130	285, 286	35	1219
Harvester-guard finger	J. Crist and F. M. Ogle	336,473	Feb. 16	1989	521	34	803
Harvester-knife. Reciprocating	W. S. Taylor	335,397	Feb. 2	435	112	34	519
Harvester. Low-binding grain-	J. C. and G. A. Cunningham	338,219	Mar. 16	1807	471, 472	34	1267
Harvester. Low-level self-binding	W. W. Burson	347,769	Aug. 24	1829	487, 488	36	827
Harvester-platform	L. C. Williams and J. A. Wieslogel	353,106	Nov. 23	1924	516	37	843
Harvester platform adjustment	J. F. Steward	341,358	May 4	541	149	35	602
Harvester rake and reel	F. G. Becker	351,019	Oct. 19	1325	348, 349	37	255
Harvester-rake trip	S. Arnold	338,908	Mar 30	2782	733	34	1453
Harvester-reel	J. Bachman	347,551	Aug. 17	1506	400	36	758
Harvester-reel	F. G. Becker	338,020	Mar. 16	1546	400	34	1216
Harvester-reel	F. G. Becker	349,973	Sept. 28	1970	509, 510	36	1439
Harvester-reel	O. Cooley	344,441	June 29	2378	612	35	1468
Harvester-reel	L. Hall	338,957	Mar. 30	2842	749	34	1465
Harvester-reel	C. Lidren	342,700	May 25	2425	643, 644	35	979
Harvester-reel	S. D Locke	339,564	Apr. 6	670	163, 164	35	121
Harvester-reel	E. A. Peck	355,202	Dec. 28	2247	593	37	1448
Harvester-reel	A. Stark	336,959	Mar. 2	102	28	34	944
Harvester-reel	A. Stark	339,229	Apr. 6	158	42	35	30
Harvester-reel	J. F. Steward	346,232	July 27	2034	525	36	391
Harvester-reel. Adjustable	J. H. Rose	337,285	Mar. 2	543	143	34	1027
Harvester-seat	S. D. Locke	339,563	Apr. 6	668	162, 163	35	120
Harvester. Self-binding	G. W. Blakeslee	350,909	Oct. 19	1225	325	37	237
Harvester. Self-binding	A. O. Carman	339,145	Apr. 6	40	13 14	35	11
Harvester. Self-binding	L. A. Carson	352,677	Nov 16	1326	357	37	720
Harvester Self-binding	A. Ross and S. J. Parker	345,650	July 13	1923	316, 317, 318	36	226
Harvester. Self-binding	J. F. Steward	346,233	July 27	2037	525, 526	36	391
Harvester. Self-binding	H. M. Weaver	338,808	Mar 30	2634	693, 694, 695	34	1426
Harvester. Self-binding	H. M. Weaver	338,809	Mar. 30	2638	695	34	1427
Harvester sheaf-carrier	M. Kane	348,975	Sept. 14	598	158	36	1163
Harvester-sickle	J. A. Ritter, Jr., and W. Van Ritter	340,364	Apr. 20	1826	468	35	340
Harvester sickle-bar	J McDermott	345,439	July 13	894	223	36	166
Harvester sickle-bar	T. W. Vansickle and J. Turnbull	339,503	Apr. 6	559	135	35	101
Harvester-sickle-grinding machine	J. N. Parker	350,386	Oct. 5	375	108	37	75
Harvester-truck	C. W. Willcoxson	333,909	Jan. 5	573	152, 153	34	105
Harvester-wheel	W. R. Baker	343,148	June 1	540	137	35	1104
Harvesters and other machines. Seat for	E. M. Krum	344,922	May 18	1311	350	35	768
Harvesters. Bundle carrier and dropper for	L. and C. H. Moffatt	352,768	Nov. 16	1442	389	37	743
Harvesters. Bundle-carrier for self-binding	C. F. Morgan	349,895	Sept. 28	1867	482	36	1420
Harvesters. Butt-adjuster for grain-	A B. Mouck	352,930	Nov. 23	1662	447	37	794
Harvesters. Butter-board for	J J. Dewey	342,288	May 18	1812	480	35	860
Harvesters. Cutting apparatus for	L. McSimple	344,491	June 22	2035	520	35	1398
Harvesters. Cutting apparatus for corn and cane	H. W. Matthews	351,878	Nov. 2	215	61	37	498
Harvesters. Grain-binder for	J. F. Appleby	346,454	Aug. 3	1	1	36	461
Harvesters. Grain-wheel adjuster for	W. N. Whiteley	342,663	May 25	2362	624	35	967
Harvesters Main wheel for	W. N. Whiteley	348,376	Mar. 23	2029	532	34	1314
Harvesters. Raising and lowering device for	J. P. Bullock	354,825	Dec. 21	1711	453	37	1333
Harvesters. Sheaf-carrier for	J. V. Leydig	341,668	May 11	972	258	35	695
Harvesters. Sheaf-dumper for	J. M. Davis	339,385	Apr 6	384	95	35	73
Harvesting and binding machine	S. Johnston	338,273	Mar. 23	1878	494	34	1288
Harvesting and binding machine Grain	J. F. Gordon	341,842	May 11	1196	320, 321, 322	35	740
Harvesting and binding machine. Grain	J. F. Gordon	349,842	Sept. 28	1804	466	36	1407
Harvesting and binding machine Grain	J. Knoop	347,617	Aug. 17	1599	424	36	777
Harvesting and binding machine. Grain	W. Schwingen	349,957	Sept. 28	1950	504	36	1435
Harvesting and binding machine. Grain	D. M. Osborne	335,950	Feb. 9	1319	324, 325	34	666
Harvesting and husking machine. Corn	J. A. Hilbert	351,916	Nov. 2	274	75, 76	37	507
Harvesting-machine	H. Black	347,285	Aug. 10	1116	299	36	678
Harvesting-machine	C. F. Craver	347,692	Aug. 17	1721	459	36	799
Harvesting-machine	R. Emerson	349,932	Sept. 28	1913	495, 496	36	1428
Harvesting-machine	H. N. and B. A. Kennedy	351,184	Oct. 19	1547	405	37	297
Harvesting-machine	J. M. Rosebrooks	349,319	Sept. 21	1054	270	36	1255
Harvesting-machine	W. N. Whiteley	351,891	Nov. 2	228	64, 65	37	500

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Harvesting-machine	C. Whitney	334,498	Jan. 19	1427	384	34	278
Harvesting machine. Corn-	C. L. Dirckx	348,154	Aug. 24	2382	639	36	929
Harvesting machine. Cotton-	C. T. Mason, Jr	337,007	Mar. [illegible]	170	45, 46	34	956
Harvesting-machines. Hedge-trimming attachment for	J. H. Kellerhals	349,595	Sept. 21	1447	373	36	1332
Harvesting-sack supporter	J. E. Poteet	337,194	Mar. 2	417	109	34	1003
Hasp-lock	J. S. Dare, Sr	336,394	Feb. 16	1885	493	34	789
Hasp-lock	J. S. Dare	351,252	Oct. 19	1634	429	37	312
Hasp-lock	F. W. Mix	344,002	June 27	1757	453	35	1349
Hasp-lock	J. H. Seed	352,206	Nov. 2	714	191	37	597
Hat	T. W. Bracher	354,882	Dec. 22	1794	473	37	1361
Hat	F. H. Crafts	338,824	Mar. 23	2301	602	34	1362
Hat	G. H. Leonard	340,793	Apr. 21	2421	637	35	453
Hat and coat hook	W. R. Clark	350,807	Oct. 12	1003	268	37	189
Hat and coat hook. Wire	F. Taylor	336,960	Mar. 2	163	28	34	945
Hat and coat rack	H. F. Gray	335,189	Feb. 9	145	37	34	467
Hat and coat rack	J. D. Mack and J. G. Newbury	348,953	Sept. 14	668	160	36	1164
Hat-bodies and other articles. Machine for shrinking	J. Dunlap	344,257	June 22	2122	542	35	1414
Hat-bodies, &c. Fulling or felting	J. T. Waring	355,041	Dec. 28	2015	531	37	1401
Hat-bodies. Machine for felting	H. M. Chittenden	344,166	June 22	1995	511, 512	35	1391
Hat-bodies, &c. Machine for fulling	J. T. Waring	355,042	Dec. 28	2017	531	37	1401
Hat-boxes. Indicator for	S. B. Grove	346,474	Aug. [illegible]	34	9	36	467
Hat-brim	W. Lawrence and H. V. Dibble	346,593	Aug. 3	179	48	36	494
Hat-brim-curling machine	R. Eickemeyer	334,221	Jan. 12	1034	275, 276	34	201
Hat-brim-curling machine	R. Eickemeyer	338,499	Mar. 22	2195	574, 575	34	1344
Hat-brim heater	G. Yule	344,800	June 21	2860	740	35	1558
Hat-brim-heating machine	R. Eickemeyer	338,497	Mar. 22	2190	573	34	1344
Hat-brims. Apparatus for shaping	L. H. Hoyt	338,272	Mar. 22	1874	493	34	1287
Hat-brims. Machine for curling	E. Hooper and N. S. Kellogg	351,439	Oct. 2	1931	503	37	370
Hat-brims. Machine for folding or curling	R. Eickemeyer	349,701	Sept. 28	1584	410, 411	36	1366
Hat-brims. Machine for trimming the curls or rolls of	G. H. Hooper	352,690	Nov. 16	1345	363, 364	37	724
Hat-brims. Setting-press for curling	R. Eickemeyer	338,498	Mar. 22	2192	574	34	1344
Hat-brims. Wire frame for	L. B. Somers	333,688	Jan. [illegible]	255	69	34	49
Hat. Campaign-	F. M. Mahan	353,093	Dec. [illegible]	54	14	37	1017
Hat-cover and neck-shield	B. Shunk	350,398	Oct. [illegible]	389	112	37	78
Hat-felting machine	A. T. Clason	338,140	Mar. 15	1703	443	34	1247
Hat-finishing block	C. E. Keator	334,236	Jan. 17	1054	280	34	204
Hat-finishing machine	J. Surerus	333,694	Jan. [illegible]	273	74	34	52
Hat-forming machine	L. M. Conklin and S. Terwilliger	337,382	Mar. [illegible]	672	176	34	1057
Hat-hardening machine	D. H. Haggerty	350,129	Oct. [illegible]	42	12	37	11
Hat-holder	C. Higbee	350,743	Oct. 17	905	243	37	172
Hat-holder	F. A. Wood	344,555	June 22	2541	656	35	1497
Hat-lining	F. W. Durham	349,633	Sept. 21	1492	387	36	1342
Hat or cap	J. C. Goebel	345,965	July 2	1668	431	36	312
Hat-pouncing machine	C. E. Keator	338,975	Mar. 3	2866	758	34	1469
Hat-pouncing machine	D. G. and F. J. Murphy	350,375	Oct. [illegible]	363	104	37	73
Hat scalding and felting machine	J. S. Taylor	335,657	Feb. [illegible]	797	213	34	590
Hat-sizing machine	G. W. Elwell and B. Fay	344,820	July [illegible]	23	6	36	6
Hat-sizing machines. Drum or roll for	C. H. Reid	344,680	June 2	2696	700	35	1528
Hat sizing or felting machine	F. Bauer	338,464	Mar. 2	2148	562	34	1336
Hat-stand	J. Mersman	333,772	Jan. [illegible]	379	103	34	71
Hat-sweat	F. E. Randel	351,402	Oct. 2	1883	491	37	361
Hat-sweat	J. Schroeröne	343,924	June 1	1648	422	35	1322
Hat-sweat	J. K. Upham	341,616	May 1	901	240	35	681
Hat sweat-band	V. Moeslein	354,924	Dec. 2	1856	491	37	1372
Hat-sweats. Stitching reed-covers to	J. A. Brautigam	347,466	Aug. 17	1389	370	36	737
Hat-tip	H. Cochrane	336,213	Feb. 1	1627	425	34	742
Hat-ventilator	J. Rasch	350,651	Oct. 12	788	214	37	150
Hat-ventilator	F. C. Bowen	337,124	Mar. [illegible]	324	84, 85	34	986
Hat-wire	C. S. Andrews	334,923	Jan. 26	1990	530	34	390
Hats and caps. Sweat-pad for	C. E. Rumpf	347,891	Aug. 24	2010	533	36	859
Hats. Device for supporting	A. T. Clason	340,419	Apr. 21	1887	485	35	352
Hats. Drying	W. H. Kendall	346,754	Aug. [illegible]	375	101	36	534
Hats. Machine for blocking	A. T. Clark	355,254	Dec. 28	2330	613	37	1464
Hats. Machinery for felting, planking, sizing, &c.	A. T. Clason	348,825	Sept. 7	379	103	36	1118
Hats, &c. Manufacture of fabric for	J. B. Berry	339,521	Apr. 6	589	142	35	108
Hats. Manufacture of felt	C. Vero	351,226	Oct. 19	1601	.....	37	306
Hats. Packing	W. H. Barnum	344,934	July 6	191	119	36	35
Hats. Ventilating	H. C. Zeffi	354,004	Dec. 7	515	139	37	1100
Hatters' irons. Rubber tube for	G. Yule	338,815	Mar. 30	2645	697	34	1428
Hatchets. Device for making claw-	J. U. Hubbard	339,059	Mar. 30	3001	793	34	1491
Hatchway	W. Bardsley	341,632	May 11	922	244	35	685
Hatchway	G. Lagerquist	353,951	Dec. 7	436	119	37	1086
Hatchway covering or door	J. Schönberg	351,467	Oct. 26	1976	514	37	379
Hatchway. Elevator-	L. J. Bates	340,753	Apr. 27	2373	625	35	443
Hatchway. Elevator-	A. A. Klein	333,526	Jan. 5	42	12	34	10
Hatchway. Self-closing	R. D. Thackston	341,073	May 4	137	41	35	530
Hatchway. Self-closing	R. D. Thackston	341,074	May 4	138	41	35	530
Hawse-pipe stopper	E. F. Robbins	346,685	Aug. 3	293	80	36	518
Hay and cotton press	M. S. Coleman	342,427	May 25	2037	537	35	907
Hay and cotton press	M. S. Coleman	354,304	Dec. 14	970	258	37	1190
Hay and cotton press	H. G. Hansen	340,307	Apr. 20	1742	443	35	324
Hay-burning apparatus	R. H. Miner	337,854	Mar. 16	1307	339	34	1173
Hay-carrier	T. S. Davidson	341,642	May 11	934	247, 248	35	688
Hay-carrier	E. L. Hall	340,913	Apr. 27	2575	678	35	480
Hay-carrier	L. S. Jones	341,147	May 4	241	72	35	549
Hay-carrier	A. L. Jordan	347,178	Aug. 10	973	259	36	652
Hay-carrier	W. Louden	337,173	Mar. 2	392	102	34	998

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hay-carrier	P. A. Myers	344,325	June 22	2214	569	35	1430
Hay-carrier	J. E. Porter	333,545	Jan. 5	66	18	34	15
Hay-carrier	J. W. and J. W. Provan	340,923	Apr. 27	2589	682, 683	35	483
Hay-carrier	W. G. Ricker	334,614	Jan. 19	1586	422, 423	34	307
Hay-carrier	F. A. White	334,917	Jan. 26	1983	528	34	389
Hay-carrier	E. Woodward	352,075	Nov. 2	499	134	37	552
Hay-carrier track	P. A. Myers	340,055	Apr. 13	1368	343	35	250
Hay-carriers. Turn-table for	E. Woodward	350,855	Oct. 12	1071	286	37	202
Hay-carrying apparatus	L. L. Sherman	350,273	Oct. 5	237	69	37	49
Hay-derrick	W. F. Brian	335,888	Feb. 9	1143	304	34	652
Hay. Device for pressing	W. A. Laidlaw	347,811	Aug. 24	1890	504	36	839
Hay-drag	H. Orchard	343,601	June 15	1217	306	35	1242
Hay-elevating fork	W. Louden	348,632	Sept. 7	138	39	36	1072
Hay-elevator	J. Benson	347,6-0	Aug. 17	1706	455	36	796
Hay-elevator	C. E. Hunt, N. B. Helm, and H. L. Ferris.	351,442	Oct. 26	1937	504	37	371
Hay-elevator	C. E. Hunt, N. B. Helm, and H. L. Ferris.	351,443	Oct. 26	1939	504	37	371
Hay-elevator	C. E. Hunt, N. B. Helm, and H. L. Ferris.	351,444	Oct. 26	1940	505	37	371
Hay-elevator	W. Louden	347,052	Aug. 10	787	209, 210	36	618
Hay-elevator	T. Temple	339,496	Apr. 6	549	133	35	102
Hay elevator and carrier	M. G. Grosscup	345,229	July 6	590	150	36	107
Hay elevator and carrier	C. E. Hunt, N. B. Helm, and H. L. Ferris.	339,187	Apr. 6	100	28	35	21
Hay-fork	M. R. Jenkins	348,744	Sept. 7	285	76	36	1100
Hay-fork	J. Ney	335,036	Jan. 26	2146	571	34	417
Hay-fork. Horse	E. McChristian	348,853	Sept. 7	416	113	36	1124
Hay-fork. Horse	N. J. Nilson	347,253	Aug. 10	1072	287	36	671
Hay-knife	J. E. Collins and J. W. Clark	342,185	May 18	1658	443	35	832
Hay-knife	W. H. Gaines	342,957	June 1	259	66	35	1053
Hay-knife	J. McMillen	351 196	Oct. 19	1566	411	37	300
Hay-knife	G. F. Weymouth. (Reissue)	10,715	Apr. 20	2062	531	35	384
Hay-loader	D. W. Bovee	352,604	Nov. 16	1221	331	37	701
Hay-loader	J., B. F., W. M., and J. B. Brimer	337,811	Mar. 16	1252	325	34	1164
Hay-loader	D. C. Jewett	348,398	Aug. 31	2732	733	36	1002
Hay-loader	F. Luther	355,187	Dec. 28	2225	587	37	1443
Hay loader	J. H. and P. Lux and S. Ede	341,3-5	May 4	584	160	35	611
Hay-loader	W. A. Overing and A. B. Livingston	344,789	June 29	2843	736	35	1554
Hay-loader	L. H. Robbins	336,948	Mar. 2	88	24	34	942
Hay-loader	A. Smith	347,389	Aug. 17	1279	340	36	717
Hay-loader	B. D. Spilman	341,179	May 4	289	82	35	557
Hay or cotton press	J. L. Madden	351,610	Oct. 26	2195	566, 567	37	420
Hay or grain shed cover	W. E. McIntyre	341,262	May 4	406	112	35	580
Hay-press	A. J. Beaman	354,457	Dec. 14	1170	313	37	1227
Hay-press	H. F. Blank	334,843	Jan. 26	1888	503	34	371
Hay-press	W. H. Bryant	350,476	Oct. 12	532	149	37	106
Hay-press	B. J. Curry	350,663	Oct. 12	801	218	37	153
Hay-press	E. Gallagher	351,104	Oct. 19	1439	377	37	275
Hay-press	A. Gord	338,592	Mar. 23	2311	605, 606	34	1363
Hay-press	J. Kemp	339,428	Apr. 6	450	110	35	84
Hay-press	J. La Dow	352,546	Nov. 16	1139	307, 308	37	686
Hay-press	J. H. Meredith	335,296	Feb. 2	296	78	34	404
Hay-press	J. G. Morton	346,937	Aug. 10	629	169	36	589
Hay-press	A. Simpson	340,828	Apr. 27	2466	649	35	461
Hay-press	A. Simpson	350,298	Oct. 12	1128	300	37	212
Hay-press. Portable	E. C. Burnette and W. H. Porter	335,053	Jan. 26	2151	577	34	421
Hay-rack	A. L. Bingham	350,474	Oct. 12	530	148	37	105
Hay-rack	J. A. Grassman	337,321	Mar. 2	594	156	34	1036
Hay-rack	J. Grimes	333,944	Jan. 5	612	166	34	114
Hay-rack	G. H. Rundle	339,075	Mar. 30	3019	798	34	1493
Hay-rack	J. A. Withrow	337,105	Mar. 2	295	78	34	981
Hay-rack	A. J. Wright	355,241	Dec. 28	2310	608, 609	37	1460
Hay-rake	J. H. Felt	351,630	Oct. 26	2225	575, 576	37	425
Hay rake and carrier. Horse	B. Jackson	340,122	Apr. 20	1456	368	35	272
Hay rake and cocker. Combined	S. Olson	335,834	Feb. 9	1053	278, 279	34	637
Hay rake and loader	E. A. Gerrard	335,519	Feb. 2	601	156	34	547
Hay rake and loader	J. S. Nafziger	337,697	Mar. 9	1100	283	34	1129
Hay rake and loader	C. P. Slaght	334,093	Jan. 12	831	227, 228	34	162
Hay rake and loader. Combined	M. P. Denney	349,484	Sept. 21	1300	338	36	1303
	M. P. Denney	349,928	Sept. 28	1903	493	36	1427
Hay rake and tedder. Combined	J. H. Thomas and J. E. Offutt	337,891	Mar. 16	1352	351, 352	34	1182
Hay rake and tedder. Combined							
Hay rake and tedder. Combined	L. C. McCarthy	347,726	Aug. 17	1767	471, 472	36	807
Hay-rake. Horse	H. A. Alden	338,460	Mar. 23	2141	560	34	1334
Hay-rake. Horse	F. Bentel	343,693	June 15	1349	337	35	1264
Hay-rake. Horse	F. Bentel	353,397	Nov. 30	2338	625	37	927
Hay-rake. Horse	F. Bentel and J. T. Gardner	343,692	June 15	1348	337	35	1264
Hay-rake. Horse	H. M. Burdick	339,971	Apr. 13	1246	311	35	228
Hay-rake. Horse	L. W. Freeman	348,898	Sept. 7	490	130	36	1137
Hay-rake. Horse	H. Gale	342,084	May 18	1539	412	35	810
Hay-rake. Horse	S. B. Gilliland	337,574	Mar. 9	951	244	34	1104
Hay-rake. Horse	J. H. Jones	343,538	June 8	1120	282, 283	35	1217

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hay-rake. Horse	J. A. Kienardt and W. R. Funk	340,326	Apr. 20	1767	451	35	329
Hay-rake. Horse	O. H. and W. T. King	348,750	Sept. 7	291	78	36	1101
Hay-rake. Horse	C. La Dow	343,131	June 1	516	131	35	1100
Hay-rake. Horse	H. McPherson	353,799	Dec. 7	205	55	37	1044
Hay-rake. Horse	W. D. Miller	348,230	Aug. 31	2510	674	36	958
Hay-rake. Horse	H. Myers	353,424	Nov. 30	2378	634	37	935
Hay-rake. Horse	E. Risley	341,947	May 18	1340	358, 359	35	773
Hay-rake. Horse	A. E. Roberts	352,205	Nov. 9	713	191	37	597
Hay-rake. Horse	G. E. Robison	348,866	Sept. 7	440	118	36	1129
Hay-rake. Horse	G. K. Schauer	350,699	Oct. 12	847	228	37	161
Hay-rake. Horse	J. H. Sigafoos	354,254	Dec. 14	893	236	37	1176
Hay-rake. Horse	L. Stow	341,517	May 11	757	203	35	653
Hay-rake. Two-horse	A. Anderson and R. Rutherford	337,111	Mar. 2	304	80	34	982
Hay-rake. Wheeled	C. Eastman	349,837	Sept. 28	1797	464	36	1405
Hay raker and loader. Combined	F. C. Davis	347,578	Aug. 17	1544	411	36	766
Hay-sling	A. P. Boyer	348,950	Sept. 14	565	150	36	1156
Hay-sling	W. G. Ricker	353,084	Nov. 22	1886	509	37	835
Hay-stacker	J. H. and T. K. Barley	355,119	Dec. 28	2129	559, 560	37	1424
Hay-stacker	W. T. King	339,430	Apr. 5	452	110	35	84
Hay-stacker	J. Locher	349,804	Sept. 23	1750	451	36	1395
Hay-stacker	J. S. Rayl	334,193	Jan. 13	985	265	34	190
Hay-stacker	L. and T. Soseman	339,818	Apr. 1	1044	259	35	191
Hay-stacker	J. F. Warner and F. Cook	336,771	Feb. 23	2399	629	34	889
Hay-stacking machine	J. J. Burnaugh	344,030	June 22	1801	464	35	1356
Hay sweep and tedder. Combined	T. S. Brown	323,917	Jan. 5	571	155	34	107
Hay-tedder	S. R. Collier	339,742	Apr. 15	950	233	35	173
Hay-tedder	F. E. Kohler	336,723	Feb. 23	2339	613	34	877
Hay-tedder	P. A. Spicer	345,932	July 27	1624	418	36	305
Hay tedder	P. A. Spicer	350,566	Oct. 1	657	180	37	126
Hay-tedder	S. Tripp	345,338	July 13	750	188, 189	36	141
Hay tedder and cocker combined	W. and J. W. Pedigo	335,618	Feb. 9	744	198, 199	34	581
Head-covering	M. Ovenu and W. Freiukelstein	335,300	Feb. 2	299	79	34	495
Head-dress	M. A. Paton	338,101	Mar. 15	1655	430	34	1237
Head-light	A. C. Handlan, Jr	348,464	Aug. 31	2827	760	36	1020
Head-light. Locomotive	P. B. Viele	335,978	Feb. 9	1255	333	34	672
Head-light. Locomotive	P. B. Viele	335,979	Feb. 9	1256	334	34	672
Head-light screen	C. A. Fields	343,632	June 1	1261	317	35	1249
Head-rest	C. E. Anderson	335,554	Feb. 5	655	173	34	565
Head-rest	S. Cawley	344,248	June 22	2107	539	35	1411
Head-rest	P. Essling	336,514	Feb. 16	2041	536	34	817
Head rest	G. Phillips	339,807	Apr. 13	1031	256	35	188
Head-rest	W. Schilling	351,801	Nov. 9	100	28	37	477
Head-rest	J. W. Trussell	344,796	June 22	2853	739	35	1557
Head-rest. Adjustable	W. H. Robertson	352,354	Nov. 9	906	243	37	633
Head-rest. Portable adjustable	G. E. Dolton	344,726	June 22	2754	714	35	1537
Head-screen	H. Garst	336,712	Feb. 23	2323	608	34	874
Header and thrasher. Combined	H. A. Benton	388,699	Mar. 30	2475	653, 654	34	1398
Headstall for stock	F. M. Medling	350,380	Oct. 5	369	106	37	74
Heat energy into electrical energy. Apparatus for converting	W. E. Case	344,345	June 22	2245	577	35	1443
Heat energy into electrical energy. Converting	W. E. Case	344,347	June 22	2249	.....	35	1443
Heat-equalizer	W. P. Merry	347,819	Aug. 24	1910	508	36	842
Heat or cold to the body. Device for applying	J. Leiter	341,584	May 11	857	228	35	672
Heat-producing apparatus	G. E. Benninghoff and C. F. Jewell	344,615	June 28	2613	677	35	1512
Heat-regulating device	J. S. Burnham	336,088	Feb. 1	1428	377	34	709
Heat-regulating device	H. B. Tatham, Jr	338,898	Jan. 7	542	147	34	101
Heat-regulator. Electric	R. L. Guion	355,164	Dec. 2	2194	579	37	1436
Heater; *See* Barrel-heater. Bed-heater. Car-heater. Feed-water heater. Fire-place heater. Flat-iron heater. Gas-heater. Hot-air fire-place heater. Hot-water heater. Parlor-heater. Portable heater. Sad-iron heater. Steam-heater. Water-heater.							
Heater	J. Batchelder, Jr	341,124	May 5	210	64	35	544
Heater	W. H. Browne	344,812	July 5	13	3	36	4
Heater	W. H. Denslow	334,695	Jan. 19	1699	453	34	328
Heater	G. F. Godley	348,555	Sept. 4	17	5, 6	36	1051
Heater	S. W. Morgan	353,422	Nov. 30	2376	633	37	935
Heater for cars, rooms, &c	W. T. Sears	340,826	Apr. 27	2465	648	35	461
Heating and cooking apparatus. Combined	I. C. Richardson	333,672	Jan. 5	231	63	34	45
Heating and cooking device. Combined	Q. S. Backus	344,511	June 29	2481	637, 638	35	1485
Heating and melting furnace	T. James and C. M. Schwab	335,200	Feb. 2	160	41	34	470
Heating and puddling furnace	J. O. Hughes and J. Eynon	342,749	May 25	2498	665	35	993
Heating and ventilating apparatus. Automatic regulating mechanism for	H. B. Tatham, Jr	333,790	Jan. 5	402	108, 109	34	76
Heating and ventilating apparatus. Automatic regulating mechanism for	H. B. Tatham, Jr	333,791	Jan. 5	404	110	34	76
Heating and ventilating apparatus. Combined steam-	A. Shogren	350,949	Oct. 19	1195	318	37	232
Heating and ventilating system	H. C. Strout	346,623	Aug. 3	220	60, 61	36	503
Heating apparatus	R. M. Bache	350,337	Oct. 5	318	90	37	65
Heating apparatus	S. L. Bailey	353,111	Nov. 23	1929	518	37	844
Heating apparatus	H. C. Berry	345,876	July 20	1543	399	36	289
Heating apparatus	J. L. Brink	343,219	June 8	647	161	35	1133
Heating apparatus	J. Conroy	345,833	July 20	1488	385	36	279
Heating apparatus	E. F. Ward	348,602	Sept. 7	97	28	36	1065
Heating apparatus. Exhaust-steam-	J. T. King	345,850	July 20	1513	392	36	283
Heating apparatus for warming feet. Portable	W. H. Swift	346,075	July 20	1819	470	36	340

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Heating apparatus. Hot-water	C. E. Hitchings	353,138	Nov. 23	1972	527	37	852
Heating apparatus. Smoke and steam escape for	B. Holbrook and C. E. Norcott	349,097	Sept. 14	777	197	36	1193
Heating apparatus. Steam	Z. P. Boyer	347,463	Aug. 17	1385	368, 369	36	736
Heating apparatus. Steam	W. P. Harthan	353,451	Nov. 30	2419	646	37	944
Heating apparatus. Steam	P. H. Inman. (Reissue)	10,721	May 11	1232	329	35	746
Heating apparatus. Steam	C. W. Rugg	348,932	Sept. 7	535	141, 142	36	1145
Heating apparatus. Thermometric regulator for	J. Trueb	354,522	Dec. 14	1264	338, 339	37	1243
Heating apparatus. Water	J. A. Fish	351,859	Nov. 2	190	53	37	493
Heating buildings. Apparatus for	S. P. Whitmarsh	346,794	Aug. 3	421	116	36	542
Heating device for beds and rooms. Air	W. H. Bowman	333,820	Jan. 5	443	120	34	83
Heating device. House	J. R. Barker	352,908	Nov. 23	1636	439	37	789
Heating-furnace	E. C. Condit	334,644	Jan. 19	1630	434	34	315
Heating-furnace	L. E. Felty and W. Floyd	342,904	June 1	178	46	35	1038
Heating-furnace	A. Hopkins	355,169	Dec. 28	2200	580, 581	37	1438
Heating-furnace	D. L. Jones	334,781	Jan. 26	1814	482, 483	34	358
Heating-furnace	J. S. Pessenger	346,770	Aug. 3	393	108	36	537
Heating-furnace	G. A. Russell	354,489	Dec. 14	1215	325	37	1235
Heating furnace. Air	J. M. Hess	334,661	Jan. 19	1655	442	34	320
Heating furnace. Gas	R. W. Kennedy	336,485	Feb. 16	2006	536	34	810
Heating-vapors. Apparatus for manufacturing	W. Walton	353,276	Nov. 23	2162	578	37	889
Heating water. Apparatus for	E. J. Douglas	345,410	July 13	860	215	36	160
Hedge	W. M. Viser	344,885	July 6	132	33	36	23
Heel	R. C. Davis	333,612	Jan. 5	151	41	34	30
Heel and attaching the same	F. F. Raymond, 2d	355,027	Dec. 28	1992	524	37	1397
Heel and sole protector	F. J. Herrick	344,526	June 29	2502	645	35	1489
Heel and sole shave. Convertible	E. B. Drummond	351,428	Oct. 26	1915	498	37	367
Heel-attaching machine	F. F. Raymond, 2d	347,061	Aug. 10	803	213, 214	36	621
Heel blank. Spring	F. F. Raymond, 2d	342,461	May 25	2078	548	35	916
Heel blank. Spring	F. F. Raymond, 2d	354,227	Dec. 14	851	226	37	1169
Heel-brace	C. J. Edney	355,258	Dec. 28	2333	614	37	1465
Heel-burnishing machine	J. P. Dion and J. P. Kelly	341,798	May 11	1136	300, 301	35	727
Heel-burnishing tool	W. A. Knipe	345,063	July 6	373	94	36	68
Heel. Convolute spring	G. W. Biddle	349,683	Sept. 28	1560	404	36	1362
Heel-counter	L. Coté	350,618	Oct. 12	733	199	37	141
Heel-counter machine	L. Coté	341,459	May 11	687	184	35	640
Heel-die	W. Watson	349,071	Sept. 14	736	187	36	1185
Heel-lift cutter	S. A. Collieson	351,741	Nov. 2	17	5	37	462
Heel-loading machine	E. B. Allen	348,091	Aug. 24	2297	615, 616	36	913
Heel-loading machine	E. B. Allen	348,092	Aug. 24	2301	616, 617	36	914
Heel-machine	J. W. Jones	352,649	Nov. 16	1285	346	37	712
Heel-making machine	C. W. Glidden	350,051	Sept. 28	2070	535, 536, 537	36	1458
Heel-nailing machine	A. Davis	342,786	June 1	17	5	35	1009
Heel-nailing machine	G. T. Demary	342,501	May 25	2145	567	35	927
Heel-nailing machine	G. T. Demary	343,703	June 15	1362	340, 341	35	1267
Heel-nailing machine	C. W. Glidden	347,482	Aug. 17	1414	376	36	741
Heel-nailing machine	F. F. Raymond, 2d	335,242	Feb. 2	223	58, 59	34	480
Heel-nailing machine	F. F. Raymond, 2d	341,169	May 4	276	79	35	555
Heel-nailing machine	F. F. Raymond, 2d	341,689	May 11	1007	266	35	702
Heel-nailing machine	F. F. Raymond, 2d	343,339	June 8	838	211, 212, 213	35	1166
Heel-nailing machine	F. F. Raymond, 2d	344,499	June 29	2459	632, 633	35	1481
Heel-nailing machine	F. F. Raymond, 2d	345,449	July 13	908	227, 228	36	169
Heel-nailing machine	F. F. Raymond, 2d	345,920	July 20	1608	414	36	302
Heel-nailing machine	F. F. Raymond, 2d	346,125	July 27	1882	487, 488	36	361
Heel-nailing machine	F. F. Raymond, 2d	346,607	Aug. 3	199	53, 54	36	499
Heel-nailing machine	F. F. Raymond, 2d	347,062	Aug. 10	808	214, 215, 216	36	622
Heel-nailing machine	F. F. Raymond, 2d	347,063	Aug. 10	813	216, 217	36	622
Heel-nailing machine	F. F. Raymond, 2d	347,514	Aug. 17	1454	386	36	748
Heel-nailing machine	F. F. Raymond, 2d	348,689	Sept. 7	219	58	36	1087
Heel-nailing machine	F. F. Raymond, 2d	354,655	Dec. 21	1477	392	37	1289
Heel-nailing machine and method of attaching heels	J. B. Gardner	354,125	Dec. 14	697	186, 187	37	1141
Heel-plate. Reversible	W. H. Pierce	341,347	May 4	526	145	35	600
Heel-protector	F. J. Herrick	351,915	Nov. 2	274	75	37	507
Heel-protector	O. B. North	354,340	Dec. 14	1024	272	37	1200
Heel-protector	E. S. Smith	352,717	Nov. 16	1382	374	37	732
Heel. Spring	C. H. Martin	354,986	Dec. 28	1938	512	37	1388
Heel-stiffener machine	J. L. Hatch	346,100	July 27	1849	477	36	355
Heel-stiffener machine	W. J. Young	350,907	Oct. 12	1143	303	37	216
Heel-strip blank	F. W. Coy	345,122	July 6	447	115	36	82
Heel-trimmer	A. F. Smith	341,064	May 4	123	37	35	528
Heel-trimming cutter	S. N. Corthell	343,758	June 15	1448	361	35	1282
Heel-trimming machine	B. Gallagher	341,803	May 11	1142	303	35	729
Heel-trimming machine	A. F. Smith	341,065	May 4	125	37	35	528
Heel-trimming machine	A. F. Smith	354,442	Dec. 14	1146	306, 307	37	1223

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Heels. Attaching	F. F. Raymond, 2d	335,241	Feb. 2	222	58	34	480
Heels. Attaching	F. F. Raymond, 2d	343,728	June 15	1411	352	35	1275
Hektograph	R. H. Smith	342,141	May 18	1608	430	35	823
Hektographs. Production of	R. H. Smith	342,142	May 18	1609	430	35	824
Helical springs. Machine for coiling	E. W. Fancher	341,228	May 4	365	100, 101	35	572
Heliostat	A. M. Mayer	333,769	Jan. 5	373	101, 102	34	70
Helmet. Safety	G. Runge and A. Stude	354,658	Dec. 21	1481	393, 394	37	1289
Hide-working machines. Cylinder for	A. E. Whitney	341,977	May 18	1379	368	35	780
Hides and skins. Machine for stretching	P. A. Jesson	352,024	Nov. 2	427	115	37	538
Hides. Machine for working	E. B. Light	343,247	June 8	689	171	35	1140
Hides or skins. Machine for breaking	P. Diehl	346,900	Aug. 10	578	154	36	580
Hides or skins. Putting-out and striking-out machine for	W. M. Hoffman	335,198	Feb. 2	158	41	34	469
High and low water alarm. Electric	E. K. Rollins	341,694	May 11	1015	268	35	704
Hinge	R. B. Carran	346,264	July 27	2088	537	36	400
Hinge	J. B. Galloway	347,341	Aug. 17	1208	323	36	704
Hinge	G. M. Jewett	344,967	July 6	232	59	36	42
Hinge	J. A. Ludlow and D. Carlough	348,133	Aug. 24	2148	630	36	923
Hinge	G. Schubert and F. Thies	353,007	Nov. 23	1775	457	37	814
Hinge	F Wheeler	344,149	June 22	1973	504	35	1386
Hinge. Coach	E. P. Hincks and G. H. Johnson	348,212	Aug. 31	2482	667	36	953
Hinge. End-gate	J. C. Altschwager	341,307	May 4	478	129	35	592
Hinge. End-gate	F. B Spees	342,144	May 18	1611	431	35	824
Hinge for awning-blinds	H. S. Tucker	349,016	Sept. 14	661	170	36	1172
Hinge for boxes or trunks	J. V. Snyder	355,227	Dec. 28	2299	604	37	1456
Hinge for gates. Roller	E. T. McKaig	339,453	Apr. 6	489	119	35	91
Hinge. Friction	C P Oudin	347,124	Aug. 10	894	237	36	637
Hinge. Gate	C. Bornarth	336,469	Feb. 16	1985	520	34	807
Hinge. Gate	G. C. Bovey	354,383	Dec. 14	1069	286	37	1209
Hinge. Gate	C. W. Cole	348,381	Aug. 31	2710	728	36	998
Hinge. Gate	E. C. Flint	345,294	July 13	692	174	36	130
Hinge. Gate	A. M. Garman	333,622	Jan. 5	163	44	34	32
Hinge. Gate	A. E. Jester	351,513	Oct. 26	2045	531	37	393
Hinge. Gate	W. R. Kramer	341,423	May 4	628	171	35	619
Hinge. Gate	D. J. Olinger	353,962	Dec. 7	453	123	37	1089
Hinge. Lock	E. D. Beales	348,098	Aug. 24	2310	619	36	916
Hinge. Lock	J. C. Howe	346,046	July 20	1783	459	36	332
Hinge. Lock	M. G. Kuhn	349,850	Sept. 28	1816	469	36	1409
Hinge. Lock	O. H. Taylor	350,851	Oct. 12	1067	285	37	201
Hinge. Mirror	P. Forg	334,944	Jan. 26	2014	536	34	395
Hinge-mortising machine	J. A. Mackenzie	355,273	Dec. 28	2350	618	37	1468
Hinge. Roller-gate	G. N. Crichton	343,759	June 15	1449	362	35	1263
Hinge. Roller-gate	P. M. Wolf	350,334	Oct. 5	315	89	37	64
Hinge. Spring	L. Bommer	348,312	Aug. 31	2619	705	36	980
Hinge. Spring	W. Gilfillan	353,853	Dec. 7	283	75	37	1058
Hinge. Spring	H. P. Kochsmeier and G. M. Waldorf	340,790	Apr. 27	2413	636	35	451
Hinge. Spring	H. P. Kochsmeier and G. M. Waldorf	345,965	July 20	1586	409	36	298
Hinge. Spring	D. Nickel	350,208	Oct. 5	161	47	37	33
Hinge. Spring	A. Schweinfurt	351,469	Oct. 26	1983	515	37	380
Hinge. Spring	G. W. Warner	345,748	July 20	1367	356	36	258
Hinge Strap	W. H. Hart	333,854	Jan. 5	491	133	34	91
Hinges in cast-metal plates. Forming	N. Burdick	351,041	Oct. 19	1355	356	37	260
Hitching device	M. Carroll	352,039	Nov. 9	448	121	37	543
Hitching device	H. R. English	347,585	Aug. 17	1353	413	36	768
Hitching device	E. J Hildreth	337,582	Mar. 9	960	246	34	1105
Hitching device	W. G. Mauk	334,963	Jan. 26	2040	545	34	378
Hitching device	W. H. Vaughn	334,827	Jan. 26	1870	498	34	368
Hitching-post	H. H. Koeller	341,488	May 11	718	193	35	645
Hitching-post	T. J. Rodgers	348,475	Aug. 31	2844	766	36	1024
Hitching-post. Combined foot-rest and scraper attachment for	H. H. Koeller	345,149	July 6	486	124	36	88
Hitching-strap	G. C. Hale	346,906	Aug. 10	588	157	36	582
Hitching-strap	G. W. Paine	348,991	Sept. 14	616	162	36	1166
Hitching-strap and buckle therefor	C. W. Beck	347,082	Aug. 10	842	224	36	638
Hitching-strap clasp	C. B. Bristol	353,842	Dec. 7	270	72	37	1056
Hitching-strap holder	E. R. Campbell	352,676	Nov. 16	1325	357	37	720
Hobby-horse	J. A. Conover	348,513	Aug. 31	2902	780	36	1034
Hod-elevator	F. W. Keys	341,486	May 11	715	192	35	645
Hod. Mortar	R. Law	333,527	Jan. 5	43	12	34	11
Hoe	S. C. Pitney and J. Ash	343,606	June 15	1327	308	35	1243
Hoe	A. C. Tonner	343,551	June 8	1140	288	35	1221
Hoe and cultivator	W. A. Murray	352,881	Nov 16	1594	430	37	772
Hoe and rake	F. Middleton	344,596	June 29	2582	668	35	1505
Hoe and rake. Combined	A. F. Stinson and J. S. Sanders	351,296	Oct. 19	1697	445	37	323
Hoe. Gang	F. T. Gilbert	351,028	Oct. 19	1340	352	37	257
Hoe-sharpener	P. D. Folkes	339,398	Apr 6	407	99	35	76
Hoeing and weeding machine	J. S. O'Brien	354,925	Dec. 28	1856	491	37	1372
Hoeing-machine	D. G. Zeigler and R. Copes	338,130	Mar. 16	1687	439	34	1244
Hoeing machine. Cotton	J. Hollingsworth	347,605	Aug. 17	1582	420	36	774
Hog and chicken cholera remedy	A. J. Alexander	338,013	Mar. 16	1535	.....	34	1214
Hog and chicken cholera. Remedy for	J. A. Knox	343,788	July 30	1426	.....	36	209
Hog-cholera remedy	H. Bridge	341 312	May 4	488	.....	35	593
Hog-cholera remedy	G. W. Eachus	340,771	Apr 27	2390	.....	35	447
Hog-cholera remedy	C. S. Griffith	347,483	Aug. 17	1415	.....	36	742
Hog-cholera remedy	M. S. Whiteside	340,648	Apr. 27	2226	.....	35	417
Hog-ring	W. L. Caldwell	339,852	Apr. 13	1093	.....	35	200
Hog-scraping machine	C. F. Bush	335,742	Feb. 9	925	243, 244	34	613
Hoist brake apparatus	R. A. Beaver	353,282	Nov. 30	2171	581, 582	37	897
Hoist. Pendulum	J. Sattes	348,780	Sept. 7	328	88	36	1108
Hoist. Wagon-bed	J. S. Jones	349,502	Sept. 21	1327	344	36	1308

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hoist. Window	M. B. Hall	351,976	Nov. 2	361	99	37	525
Hoists. Chain-guide	E. Samuel	349,520	Sept. 21	1349	351	36	1313
Hoisting and conveying apparatus	A. Betteley	361,021	Oct. 19	1330	349 / 350	37	256
Hoisting and conveying apparatus	L. Graff	338,952	Mar. 30	2837	048	34	1464
Hoisting and lowering apparatus	A. Ilse	344,183	June 22	2021	517	35	1396
Hoisting apparatus	A. Betteley	351,022	Oct. 19	1332	350	37	256
Hoisting apparatu	H. W. Champlin	338,929	Mar. 30	2807	740	34	1458
Hoisting apparatus	C. W. Hunt	351,445	Oct. 26	1941	505	37	372
Hoisting apparatus	C. W. Hunt	351,446	Oct. 26	1942	506	37	372
Hoisting apparatus	G. W. Rawson and G. E. Worthen	337,866	Mar. 16	1320	343	34	11 6
Hoisting apparatus	E. O. Rood	334,810	Jan. 26	1851	493	34	365
Hoisting apparatus	J. W. Seigh	352,631	Nov. 16	1262	340	37	708
Hoisting apparatus	F. Service	351,805	Nov. 2	108	30	37	478
Hoisting apparatus. Stone-	G. Hunter	346,850	Aug. 3	494	136 / 137	36	557
Hoisting-bucket	W. P. Myer	347,302	Aug. 10	1150	307	36	684
Hoisting device	L. D. Spragg	349,538	Sept. 21	1375	357	36	1318
Hoisting device	C. C. Stewart	351,293	Oct. 19	1693	444	37	322
Hoisting device for sail-boats	T. Chambers	344,306	June 22	2189	561 / 562	35	1426
Hoisting-gear. Differential	P. Murray, Jr	348,684	Sept. 7	212	56	36	1086
Hoisting-machine	F. X. Brenner	334,740	Jan. 26	1763	470	34	347
Hoisting-machine	B. P. Darling	336,630	Feb 23	2210	577	34	852
Hoisting-machine	A. Dobbie	345,489	July 13	961	244	36	178
Hoisting-machine	J. Kamm and J. Kaiser	353,564	Nov 30	2588	691	37	975
Hoisting-machine	A. A. Klein	345,309	July 13	709	179	36	133
Hoisting-machine	F. H. A. Peters	350,268	Oct. 5	228	67	37	47
Hoisting-machine	W. Roth	349,123	Sept. 14	809	206	36	1199
Hoisting-machine	C. J. Waldron	333,574	Jan. 5	106	29	34	23
Hoisting-machine	T. A. Weston	333,906	Jan. 5	558	150 / 151	34	104
Hoisting-machine. Differential	T. F. Flinn	348,200	Aug. 31	2463	662	36	950
Hoisting-machine. Spur geared	S. A. Morse and C. Tyson	344,053	June 22	1835	471	35	1361
Holdback	P. T. Convis	348,953	Sept. 14	568	151	36	1157
Holdback. Vehicle	S. Conrad	346,268	July 27	2093	538	36	401
Holdback. Vehicle	C. Pulver	341,052	May 4	106	32	35	524

Holder:

See Bag-holder.
Bag and twine holder.
Barrel-holder.
Bed-clothes holder.
Bill-holder.
Billiard-chalk holder.
Bit-holder.
Blacking-box holder.
Boa-holder.
Bolt-holder.
Book-holder.
Book and music holder.
Book-leaf holder.
Bottle-holder.
Bouquet-holder.
Broom-holder.
Broom and tool holder.
Burnishing-tool holder.
Camera-plate holder.
Candle-holder.
Card-holder.
Card or picture holder.
Carriage-shade holder.
Cartridge-holder.
Christmas-tree holder.
Christmas-tree candle-holder.
Cigar-holder.
Cigar and ash holder.
Cigarette-holder.
Coin-holder.
Copy-holder.
Cord and rope holder.
Cork-holder.
Cow-tail holder.
Crayon-holder.
Crayon and pencil holder.
Cuff-holder.
Dental cotton-holder.
Drinking straw or tube holder.
Dust-pan holder.
Embroidery-holder.
Eyeglass-holder.
File-holder.
Garment-holder.
Grain-binder cord-holder.
Grindstone tool-holder.
Harmonica-holder.
Harness ring-holder.
Harrow-tooth holder.
Hat-holder.
Hitching-strap holder.
Horse-blanket holder.
Horse-tail holder.
Hose-nozzle holder.
Individual condiment-holder.
Ink-pad holder.
Lace and ribbon holder.
Lamp-holder.
Lamp-burner holder.
Lamp-shade holder.
Lantern-holder.
Lantern and flag holder.
Lead and crayon holder.
Lead or crayon holder.
Lemon-holder.
Letter and index holder.
Line-holder.
Liquid-holder.
Magazine-holder.
Match-holder.
Medicine-holder.
Mop-holder.
Mucilage-holder.
Music-holder.
Nail-holder.
Necktie-holder.
Oil-can holder.
Package-holder.
Pail-holder.
Paper-holder.
Paper-bag holder.
Paper-roll holder.
Pen-holder.
Pen and brush holder.
Pen and pencil holder.
Pencil-holder.
Pencil or crayon holder.
Photograph or card holder.
Photographer's plate-holder.
Pillow-sham holder.
Pipe-nipple holder.
Plate-holder.
Post-holder.
Printing-plate holder.
Railway-rail holder.
Reflector-holder.
Rein-holder.
Ribbon-holder.

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Holder—Continued.							
See Rope-holder. Stencil-holder.							
Sash-holder. Stereotype-plate holder.							
Satchel-holder. Stove-lid holder.							
Screw-holder. Stove-pipe holder.							
Sewing-machine needle-holder. Surgical-needle holder.							
Tag-holder.							
Sewing-machine spool-holder. Ticket-holder.							
Tobacco-stick holder.							
Shade-holder. Tool-holder.							
Shade and reflector holder. Towel-holder.							
Tug-holder.							
Shaft-holder. Twine-holder.							
Sign and bill holder. Type-holder.							
Skirt-holder. Type and space holder.							
Spinning-ring holder. Umbrella-holder.							
Vehicle lantern-holder.							
Splasher-holder. Whip-holder.							
Sponge-holder. Whip and rein holder.							
Spool-holder. Watch-movement holder.							
Stamp or label holder.							
Holder for papers and similar articles	F. P. Durando	346,845	Aug. 3	488	135	36	556
Holder for rings, bracelets, &c	J. McConahy	354,799	Dec. 21	1676	443	37	1327
Holdfast. Friction-	E. G. Parkhurst	341,500	May 11	732	197	35	649
Hollow ware	W. H. Hoyt	339,419	Apr. 6	441	108	35	82
Honey-box case and clamp	O. S. Foster	337,143	Mar. 2	348	90	34	990
Honey-extractor	J. C. Melcher	335,828	Feb. 9	1044	276	34	635
Honey-extractor	W. B. Treadwell	335,857	Feb. 9	1086	287	34	643
Hoof cleaner and trimmer	E. Ewan	338,146	Mar. 16	1707	445	34	1248
Hoof-pad	E. F. Collins	338,250	Mar. 23	1850	486	34	1283
Hoof-pad	J. H. Dempsey	345,283	July 13	674	170	36	128
Hoof-pad	A. B. King	339,304	Apr. 6	272	68	35	51
Hoof-pad	A. Marsh	342,449	May 25	2060	543	35	912
Hoof-pad	W. Mulloy	347,821	Aug. 24	1912	508	36	342
Hoof-parer	R. Glock and S. Moon	338,400	Mar. 23	2062	541	34	1319
Hoof-trimming device	J. Bernadac	343,427	June 8	969	242	35	1190
Hoof-trimming tool	D. T. Barber	350,340	Oct. 5	323	92	37	65
Hook.							
See Back-band hook. Fishing-hook.							
Bale and box hook Grab-hook.							
Bench-hook. Harness-hook.							
Billiard-bridge hook. Harness check-hook.							
Breast-strap hook. Hat and coat hook.							
Breeching-hook Lacing-hook.							
Button-hook. Meat-hook.							
Check-hook. Meat-suspending hook.							
Check-rein hook. Rein-hook.							
Clothes-hook. Safety-hook.							
Coat and hat hook. Screw-hook.							
Conductor-hook. Snap-hook.							
Draft-hook. Trace-hook							
Drapery-hook. Trellis-hook.							
Dry-board hook. Whiffletree-hook							
Fish-hook.							
Hook	W. Webster	352,381	Nov. 9	939	251	37	641
Hook and buckle. Combined	J. J. Pinkham	353,462	Nov. 30	2435	650	37	946
Hooks. Machine for making	H. V. Hartz	334,432	Jan. 19	1333	361	34	261
Hooks. Manufacture of screw-	G. J. Williams and F. R. Silk	337,722	Mar. 9	1130	291	34	1135
Hoop:							
See Wire hoop.							
Hoop-coiling machine	A. F. Ward	349,243	Sept. 14	970	248	36	1230
Hoop-cutting machine	E. Powell	348,582	Sept. 7	68	19	36	1060
Hoop-driver	G. W. Packer	347,369	Aug. 17	1246	332	36	710
Hoop-fastener	G. F. Meyer and J. M. Chambers	343,645	June 15	1278	321	35	1252
Hoop-fastener	N. Newman	338,644	Mar. 23	2386	628	34	1376
Hoop-fastener	N. Newman	339,006	Mar. 30	2927	775	34	1479
Hoop-fastening	J. O'Neill	344,749	June 29	2789	722	35	1543
Hoop for vessels	F. Roy	335,720	Feb. 9	891	235	34	606
Hoop-lock	N. Newman	340,674	Apr. 27	2254	593	35	422
Hoop machine. Barrel-	G. S Foster	346,035	July 20	1772	456	36	329
Hoop pointing and lapping machine	F. L. Wilson	348,307	Aug. 31	2613	703 / 704	36	979
Hoop-pole-sawing machine	E. Powell	335,090	Jan. 26	2226	591	34	432
Hoop-sawing machine	W. Bowker	348,149	Aug. 24	2370	636	36	927
Hoop-shaving machine	W. A. Stone	352,496	Nov. 9	1077	290	37	668
Hoop-splitting machine	H. Weitzel	335,000	Jan. 26	2087	557	34	407
Hoops. Machine for cutting locks in	P. D. Pike	343,197	June 8	614	153	35	1127
Hop-drier	W. S. Plummer	345,647	July 13	1118	315	36	225
Hop-kiln	B. Peer, Jr	345,535	July 13	1050	268	36	194
Hop-press	A. Meyer	342,805	June 1	42	11	35	1014
Hops to obtain extracts therefrom. Treating	L. Boulé	338,027	Mar. 16	1554	.....	34	1218
Hopper	M. F. Seeley	352,008	Nov. 2	405	110	37	534
Hopper. Cinder-	G. Y. Smith	349,009	Sept. 14	652	168	36	1170
Hopper. Feed-	C. L. Butterfield	352,446	Nov. 9	1018	274	37	656
Hopple	W H. Crittenden	342,334	May 25	1889	500	35	883
Hopple	J. T. Stoll	344,215	June 22	2067	529	35	1404
Hopple and tail-holder. Combined	R. T. Stokes	349,124	Sept 14	812	206	36	1199
Horn plates. Apparatus for the manufacture of	S. Fox	346,539	Aug. 3	114	30	36	482
Horse and cattle cleaner	F. A. Jewett	354,145	Dec. 14	728	195	37	1146
Horse-bed. Automatic	T. M. McDonough	337,070	Mar. 2	247	66	34	971
Horse-blanket	A. M. Boyer	341,635	May 11	926	245	35	686
Horse-blanket	C. H. Magoon	342,800	June 1	37	10	35	1013
Horse-blanket holder	L. A. White	354,365	Dec. 14	1052	281	37	1206
Horse-block	W. N. Bell	336,986	Mar. 2	136	37	34	950

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Horse-boot	T. Golden	336,105	Feb. 16	1451	382	34	713
Horse-boot	G. H. St. John	349,668	Sept. 21	1534	396	36	1350
Horse-boot	S. Taylor	338,372	Mar. 23	2023	531	34	1313
Horse-boot	A. H. Tyson	333,982	Jan. 5	664	182	34	125
Horse-detacher	J. R. Bird	340,973	May 4	4	2	35	506
Horse-detacher	J. F. C. Jürgensen	339,104	Mar. 30	3066	811	34	1502
Horse-detacher	C. H. Keenan and J. P. Gardner	342,106	May 18	1570	419	35	815
Horse-detacher	D. Singletary	338,308	Mar. 23	1925	507	34	1296
Horse-detacher	S. M. and C. A. Teeter	341,610	May 11	890	237	35	679
Horse-detacher	F. Thomas and G. M. Kay	349,127	Sept. 14	816	207	36	1200
Horse-detaching device for vehicles	A. L. Engelberg	338,049	Mar. 16	1579	411	34	1222
Horse-hitching device	A. H. Buckingham and A. G. Hohenstein	340,905	Apr. 27	2566	676	35	478
Horse-hitching device	H. Holland	343,993	June 22	1748	450	35	1347
Horse marsh-shoe	C. Dumke	338,166	Mar. 16	1735	453	34	1253
Horse-power	G. W. Crane	340,938	Apr. 27	2609	688	35	486
Horse-power	S. G. Hoekstra	334,074	Jan. 12	804	220	34	157
Horse-power	G. and A. Raymond	353,967	Dec. 7	461	125	37	1090
Horse-power	C. Sandford	358,842	Dec. 21	1732	459	37	1338
Horse-power	G. Sowers	348,246	Aug. 31	2531	680	36	962
Horse-power	C. Villeneuve	333,702	Jan. 5	282	77	34	53
Horse-power for hay-carriers and other uses	J. S. Grabill	341,232	May 4	370	102	35	573
Horse quarter-boot	C. Drew	339,050	Mar. 30	2986	790	34	1489
Horse quarter-boot	E. A. Leonhard	339,995	Apr. 13	1390	322	35	237
Horse-rake	C. L. Dow	349,942	Sept. 28	1927	499	36	1431
Horse-rake	S. R. Nye	352,884	Nov. 16	1597	431	37	773
Horse-rake	S. Ritty	346,947	Aug. 10	643	172	36	592
Horse-rake and carrier-truck. Combined	J. H. Barley	337,228	Mar. 2	460	120	34	1011
Horse-tail holder	R. T. Moss	336,254	Feb. 16	1692	441	34	753
Horse-tail holder	J. G. Swain	353,608	Nov. 30	2647	707	37	986
Horse-tail holder	F. H. Turnure	336,359	Feb. 16	1838	482	34	760
Horse-tail supporter	W. V. Ramsey	349,120	Sept. 14	805	204	36	1198
Horse-unhitcher. Electric	A. J. Coffee	339,043	Mar. 30	2977	787	34	1487
Horses. Ankle and skin boot and cord-protector for	J. A. McKerron	341,032	May 4	80	22	35	520
Horses. Ankle-boot for	H. H. Brown	348,614	Sept. 7	114	32	36	1068
Horses. Ankle-boot for	D. Curtis	342,430	May 25	2040	538	35	908
Horses. Apparatus for bathing the feet of	A. Purson	353,428	Nov. 30	2384	636	37	936
Horses. Apparatus for controlling	W. W. Rosenfield	344,009	June 22	1765	454, 455, 456, 457	35	1350
Horses. Appliance for training	I. A. Dodge	346,989	Aug. 10	693	184	36	601
Horses' bridles. Blinders for	A. P. R. Hanks	351,863	Nov. 2	195	54 55	37	495
Horses. Device for stopping	C. C. Harris	352,241	Nov. 9	758	202	37	605
Horses. Feed-bag for	E. Dawson	342,951	June 1	253	64	35	1052
Horses from harness and vehicles. Device for releasing	O. W. Wade	334,097	Jan. 12	840	229, 230	34	163
Horses. Foot-rasp for	A. P. Williams	353,999	Dec. 7	507	137	37	1099
Horses. Head-protector for	M. F. Corley	342,186	May 18	1659	443	35	832
Horses' hoofs. Snow and ice guard for	D. Goff	351,633	Oct. 26	2230	576	37	426
Horses' hoofs. Snow and ice guard for	D. Goff	351,634	Oct. 26	2230	577	37	426
Horses. Manufacture for the shoeing of	J. E. Bingham	346,350	July 27	2201	564, 565	36	421
Horses. Stall for handling vicious	C. F. Shedd	342,976	June 1	280	73	35	1057
Horses. Sun-shield for	S. White	338,899	Mar. 30	2770	729	34	1450
Horses. Sweat-scraper for	G. W. Sanford	334,198	Jan. 12	1005	267	34	195
Horseshoe	J. E. Bingham	346,351	July 27	2203	565	36	421
Horseshoe	J. E. Bingham	349,080	Sept. 14	746	190	36	1187
Horseshoe	J. E. Bingham	349,081	Sept. 14	748	191	36	1187
Horseshoe	W. N. Brewer	343,885	June 15	1602	407	35	1312
Horseshoe	C. S. Canfield	338,139	Mar. 16	1701	443	34	1247
Horseshoe	C. S. Canfield	354,886	Dec. 28	1801	476	37	1362
Horseshoe	D. Cruici	340,982	May 4	16	5	35	508
Horseshoe	J. P. Dudley	343,115	June 1	493	125	35	1095
Horseshoe	I. Fenno	353,354	Nov. 30	2274	607	37	915
Horseshoe	C. W. Hayes	340,440	Apr. 20	1910	491, 492	35	356
Horseshoe	H. Holland	349,044	Sept. 14	698	178	36	1179
Horseshoe	A. Jahnke	340,879	Apr. 27	2536	667	35	473
Horseshoe	C. J. Le Roy	337,844	Mar. 16	1294	335	34	1171
Horseshoe	W. S. McGowan, Jr	336,863	Feb. 23	2519	664	34	911
Horseshoe	L. B. Melius	344,452	June 29	2389	615	35	1470
Horseshoe	E. A. Monroe	344,128	June 22	1945	497	35	1381
Horseshoe	J. Myers	350,441	Oct. 5	464	130	37	90
Horseshoe	H. M. Oliver	335,476	Feb. 2	530	140	34	537
Horseshoe	T. Penhorwood	348,861	Sept. 7	432	116	36	1127
Horseshoe	M. H. Petersen	349,234	Sept. 14	960	245	36	1228
Horseshoe	T. Phillips, E. Bouchard, and T. Charbonneau.	336,154	Feb. 16	1530	403	34	726
Horseshoe	P. Pitton	350,840	Oct. 12	1053	282	37	199
Horseshoe	D J. Pryor	346,497	Aug. 3	61	15	36	472
Horseshoe	J. Ricks	338,781	Mar. 30	2603	686	34	1420
Horseshoe	E P. Rogers	339,583	Apr. 6	720	176	35	126
Horseshoe	G. G. Schroeder	334,200	Jan. 12	1006	267, 268	34	195
Horseshoe	H. B. Schureman	338,789	Mar. 30	2611	688	34	1422
Horseshoe	C. E. Searles	353,165	Nov. 23	2010	538	37	859
Horseshoe	M. L. Shay and C. Worden	340,626	Apr. 27	2188	576	35	412
Horseshoe	W. Somerville, Sr	337,090	Mar. 2	277	73	34	978
Horseshoe	G. O. Standish	333,974	Jan. 5	653	178	34	123
Horseshoe-blank bars. Machine for rolling	H. C. Osterbind	349 950	Sept. 28	1942	502	36	1434
Horseshoe-blank bars. Machine for rolling	J. H. Snyder	349,182	Sept. 14	884	227	36	1214
Horseshoe-calk	S. Stone	335,395	Feb. 2	433	111	34	519
Horseshoe-calk	B. H. Warren	335,259	Feb. 2	246	65	34	484

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Horseshoe-calks. Device for sharpening	E. S. Elkin	345,491	July 13	965	244	36	179
Horseshoe-calks. Machine for sharpening	H. East, D. K. Price, and H. R. East.	347,698	Aug. 17	1727	461	36	800
Horseshoe. Duplex	A. C. Hawes	334,658	Jan. 19	1648	440	34	319
Horseshoe. Duplex	A. C. Hawes	334,659	Jan. 19	1652	441	34	319
Horseshoe. Duplex	A. C. Hawes	334,660	Jan. 19	1653	441	34	319
Horseshoe-machine	C. H. Perkins	338,870	Mar. 30	2718	714, 715, 716	34	1442
Horseshoe-machine	C. H. Perkins	338,871	Mar. 30	2725	716, 717	34	1443
Horseshoe-machine	C. H. Perkins	340,350	Apr. 20	1807	463, 464	35	337
Horseshoe-machine	F. A. Roe	350,603	Oct. 12	708	193	37	136
Horseshoe-nail-finishing machine	J. A. Hutchinson	353,030	Nov. 23	1804	485	37	819
Horseshoe-nail machine	G. J. Capewell	351,574	Oct. 26	2132	552, 553, 554	37	409
Horseshoe-nail machine	O. Roberts	352,069	Nov. 2	491	132	37	551
Horseshoe-nails. Device for sorting	W. M. Stone and H. Dundas	355,109	Dec. 28	2114	556	37	1420
Horseshoe-nails. Machine for forging	J. H. Phillips	347,510	Aug. 17	1447	384, 385	36	747
Horseshoe-nails. Machine for forging	D. F. Williams	333,984	Jan. 5	666	182, 183	34	125
Horseshoe-nails. Machine for making	W. M. Mooney and H. Estes	339,574	Apr. 6	683	167, 168, 169, 170, 171, 172, 173	35	123
Horseshoe-nails. Manufacture of	C. H. Burckett	343,295	June 8	765	191	35	1154
Horseshoe-nails. Manufacture of	G. J. Capewell	351,573	Oct. 26	2130	551	37	409
Horseshoe. Soft-ground	L. Brigham	345 763	July 20	1393	361	36	264
Horseshoes. Detachable calk for	W. H. Miller	341,038	May 4	86	24	35	521
Horseshoes. Machine for manipulating	E. S. Thurber	342,400	May 25	1992	526	35	900
Horseshoes. Tool for expanding	H. Wilcox	337 221	Mar. 2	450	117	34	1009
Horseshoeing-stand	F. E. Cherrier	339,375	Apr. 6	373	91	35	69
Horseshoer's knife	J. Bernadac	343,426	June 8	968	242	35	1190
Horticultural building	J. Plenty	335,145	Feb. 2	64	18	34	452
Hose	A. T. Holt	334,951	Jan. 26	2024	540	34	396
Hose	J. Jones	334,233	Jan. 12	1051	284	34	204
Hose and pipe coupling	W. J. McCoy	342,527	May 25	2179	577	35	932
Hose and pipe coupling	P. J. O'Connor	347,368	Aug. 17	1245	331	36	710
Hose and the manufacture of the same. Steam-	R. Cowen	344,250	June 22	2111	539	35	1412
Hose-bridge	D. F. Carroll	352,638	Nov. 2	447	121	37	543
Hose-bridge	F. Heim	336,482	Feb. 16	2004	525	34	810
Hose-bridge	F. Heim	352,822	Nov. 16	1513	407	37	756
Hose-bridge	J. S. Peden	340,611	Apr. 27	2167	569	35	408
Hose-carriage	C. A. Dorr and E. B. Hill	354,465	Dec. 14	1181	316	37	1229
Hose-carriage	E. S. McNamara	354,205	Dec. 14	823	218	37	1164
Hose-carriage	D. T. Young	344,705	June 29	2724	708	35	1533
Hose-carriage brake	P. J. Cooney	341,455	May 11	682	183	35	638
Hose-carriages. Stop for reels of	P. J. Cooney	341,456	May 11	682	183	35	639
Hose-clamp	W. J. Wilson	341,365	May 4	552	153	35	604
Hose-conduit for railways	H. Geise	351,371	Oct. 26	1804	474	37	348
Hose-coupler	J. J. Cox and A. J. Allison	350,188	Oct. 5	127	36	37	27
Hose-coupling	F. Atherton and M. T. Bentley	333,913	Jan. 5	567	154	34	106
Hose-coupling	E. E. Gold	349,991	Sept. 28	1998	516	36	1444
Hose-coupling	C. A. Muddiman	339,109	Mar. 30	3073	813	34	1503
Hose-coupling	J. Schroder	348,059	Aug. 24	2254	603	36	905
Hose-coupling	A. F. Symes and J. Buchtel	343,089	June 1	447	114	35	1088
Hose-coupling and hydrant attachment	J. Young	341,713	May 11	1034	274	35	708
Hose. Elastic	C. Hoult	335,704	Feb. 9	869	229	34	602
Hose-hoist	J. J. Bresnan	351,160	Oct. 19	1513	396	37	290
Hose. Machine for winding wire upon	J. A. Coultaus	338,489	Mar. 23	2181	570, 571	34	1342
Hose. Machine for winding wire upon	I. W. McGaffey	334,026	Jan. 12	733	201	34	145
Hose. Manufacture of rubber-lined and rubber-covered	A. Bruegger, Jr	334,510	Jan. 19	1447	389	34	281
Hose-nozzle	J. O'Donnell	334,800	Jan. 26	1837	490	34	362
Hose-nozzle holder	M. Lane	352,697	Nov. 16	1356	366	37	726
Hose pipe and nozzle	C. Callahan	345,570	July 13	1104	282	36	204
Hose-protector	D. P. Dieterich	349,929	Sept. 28	1905	493	36	1427
Hose-reel	V. H. Buschman	351,688	Oct. 26	2300	597	37	440
Hose-reel	A. Schmidt and C. Revercomb	337,523	Mar. 9	888	226	34	1092
Hose-reel	C. H. Weygant	344,554	June 29	2539	656	35	1496
Hose-reel and irrigator	J. Perkins	340,676	Apr. 27	2259	595	35	423
Hose-reel carriage	W. B. Wilcox	353,340	Nov. 30	2252	602	37	911
Hose-spanner	F. W. Gray	336,915	Mar. 2	49	13	34	936
Hose-spanner	F. B. Munroe	342,923	June 1	212	54	35	1043
Hose-supporter	C. A. Hine	337,954	Mar. 16	1450	376	34	1200
Hosiery-exhibitor and sale-rack	G. E. Slaughter	354,943	Dec. 28	1884	497	37	1378
Hosiery. Manufacturing	S. Borton and C. H. Willcox. (Reissue.)	10,730	June 1	554	140	35	1108
Hot-air engine	T. J. Rider	353,004	Nov. 23	1771	476	37	813
Hot-air equalizing-register	G. H. Hess	346,102	July 27	1852	478	36	355
Hot-air fire-place heater	W. A. French	354,632	Dec. 21	1442	383	37	1282
Hot-air furnace	C. R. Alsop	345,564	July 13	1097	280	36	203
Hot-air furnace	S. T. Bryce. (Reissue)	10,747	July 27	2362	605	36	449
Hot-air furnace	S. D. Burlingame	336,033	Feb. 9	1329	352	34	685
Hot-air furnace	R. R. Finch	345,293	July 13	691	174	36	130
Hot-air furnace	C. S. Hood	350,590	Oct. 12	692	187, 188	37	132
Hot-air furnace	G. L. Niehaus	350,076	Sept. 28	2114	547	36	1466

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hot-air furnace	A. Ormsby	349,736	Sept. 28	1655	427	36	1378
Hot-air furnace	J. F. Pease	350,601	Oct. 12	706	192	37	136
Hot-air furnace	J. S. Pessenger	346,769	Aug. 3	392	108	36	537
Hot-air furnace	W. Phipps	349,518	Sept. 21	1346	350	36	1312
Hot-air furnace	P. H. Sims and P. Hohmeier	343,737	June 15	1422	354	35	1278
Hot-air furnace	W. H. Thomas	342,399	May 25	1991	526	35	899
Hot-air furnace	E. D. Van Stone and E. W. Taylor	334,310	Jan. 12	1165	312	34	224
Hot-air furnace	C. White	340,844	Apr. 27	2486	655	35	464
Hot-air-furnace casing	S. N. Betts	333,989	Jan. 12	678	185	34	135
Hot-air or steam motor	A. Schmalz	340,824	Apr. 27	2461	647	35	460
Hot-air register	S. Tuttle, Jr	346,875	Aug. 3	535	145	36	564
Hot-air register	J. Warren	351,230	Oct. 19	1607	421	37	307
Hot-water apparatus	S. F. Collins	354,305	Dec. 14	971	252	37	1190
Hot-water heater	H. K. Kriebel	337,068	Mar. 2	245	65	34	971
Hotel call, fire-alarm, and indicator	A. T. Hess and H. A. Stoltenberg	350,626	Oct. 12	746	205	37	143
Hotel-register	J. W. Leasure	353,075	Nov. 23	1876	506	37	832
House: *See* Bath-house. Refrigerator-house. Chicken-house. Storage-house. Drying-house. Toy house. Ice-house.							
House clamp and anchor	C. H. Simmons	351,407	Oct. 26	1889	492	37	362
House. Dry out-	T. W. Carrico	338,826	Mar. 30	2664	701	34	1432
House interiors. Finishing of	W. J. Boda	346,187	July 27	1974	509 / 510	36	378
House. Portable	W. J. Anderfuren	345,944	July 20	1640	422	36	307
House. Portable	E. Densmore	341,735	May 11	1061	282	35	713
House. Portable	J. K. P. Shelton	352,011	Nov. 2	408	111	37	534
House-service and street-washer connection	J. Moss	336,233	Feb. 16	1690	441	34	752
House. Summer and bath	F. I. Palmer	335,835	Feb. 9	1058	279	34	638
House-ventilator	W. Moore and J. B. Carter	335,829	Feb. 9	1045	276	34	635
Houses. Apparatus for use in dry out-	T. W. Carrico	338,480	Mar. 23	2165	566	34	1339
Houses. Constructing frame	E. Totman. (Reissue)	10,678	Jan. 12	1292	349	34	247
Houses. Construction of	E. Totman	333,903	Jan. 5	550	149	34	103
Household-press	J. L. Smith	336,956	Mar. 2	98	27	34	944
Hub	J. C. Holloway, Sr	347,427	Aug. 17	1322	352	36	724
Hub	G. W. Jones and F. F. Green	351,776	Nov. 2	65	17	37	471
Hub	R. Nolen	348,635	Sept. 7	141	40	36	1073
Hub and axle-coupling. Vehicle-	J. Raddiu	334,049	Jan. 12	769	210	34	151
Hub and general boring and mortising machine	A. L. Navone	353,877	Dec. 7	320	83, 84	37	1065
Hub-attaching device	J. W. Beal	351,847	Nov. 2	174	47	37	490
Hub-attaching device	W. A. Clark	351,095	Oct. 19	1428	374	37	273
Hub-attaching device	W. A. Clark	351,495	Oct. 26	2021	524	37	387
Hub-attaching device	A. F. C. Garben	333,621	Jan. 5	162	44	34	32
Hub-attaching device	C. F. Harrington	353,218	Nov. 23	2082	557	37	874
Hub-attaching device	E. Partridge	342,630	May 25	2325	613 / 614	35	960
Hub-band	S. Marks	350,259	Oct. 5	218	63	37	46
Hub-cap	J. Rapp	353,709	Dec. 7	81	22	37	1021
Hub fastening device. Vehicle-	C. A. Johnson	336,520	Feb. 16	2049	538	34	818
Hub for vehicle-wheels	J. N. Harris	351,764	Nov. 2	48	13	37	468
Hub-mortising machine	G. H. Brown and H. W. Meyer	345,766	July 20	1398	362	36	264
Hub-runner	H. Holland	344,579	June 29	2564	663	35	1502
Hub-runner for carriages	H. Holland	344,578	June 29	2563	663	35	1502
Hub. Self-lubricating	P. J. Foulon	348,961	Sept. 14	576	153	36	1159
Hub. Self-lubricating	L. Steinberger	350,951	Oct. 19	1197	319	37	232
Hub. Vehicle-	D. Bookwalter	334,508	Jan. 19	1445	388	34	281
Hub. Vehicle-	C. W. Fillmore	335,442	Feb. 2	495	129	34	530
Hub. Vehicle-	J. C. Holloway, Sr	347,426	Aug. 17	1321	352	36	724
Hub. Vehicle-	J. L. Johnston	349,433	Sept. 21	1229	319	36	1289
Hub. Vehicle-	J. Maris	347,623	Aug. 17	1609	427	36	779
Hub. Vehicle-wheel	H. Hoefer and G. Blechschmidt	347,040	Aug. 10	772	206	36	616
Hub. Wagon-	M. Conrad and C. Hotz	355,141	Dec. 28	2162	570	37	1430
Hub. Wagon-	N. L. Holmes	343,274	June 8	730	181 / 182	35	1147
Hub. Wheel-	S. H. French and W. J. Maltby	337,319	Mar. 2	592	155	34	1035
Hub. Wheel-	B. A. Grasberger	351,910	Nov. 2	266	73	37	506
Hub. Wheel-	A. W. Lane	350,254	Oct. 5	212	61	37	44
Hub. Wheel-	W. J. Miller	345,716	July 20	1315	339 / 340	36	250
Hub. Wheel-	J. A. Schuler	342,641	May 25	2338	617	35	963
Hub. Wheel-	M. L. Smith	343,501	June 8	1077	269	35	1209
Hub. Wheel-	J. M. Sweet	341,861	May 11	1224	327	35	744
Hub. Wheel-	J. M. Sweet	345,006	July 6	304	16	36	55
Hub. Wheel-	J. W. Weiser	349,190	Sept. 14	896	230	36	1116
Hubs. Sand-band for wheel-	C. O. Chaplin	354,181	Dec. 14	791	210	37	1157
Hubs to gear-wheels and pinions. Attaching	W. B. Learned	344,321	June 22	2207	569	35	1429
Huller: *See* Almond-huller. Rice-huller. Coffee-huller.							
Hulling-mill	J. F. Winchell	343,514	June 8	1090	273	35	1211
Humus and muck. Treatment of	W. W. Hicks	345,507	July 13	980	251	36	184
Hunting and fishing boat	G. H. Nye	349,316	Sept. 21	1050	269	36	1254
Hunting-boat	H. A. Hannum	335,190	Feb. 2	147	38	34	467
Hydrant	P. N. Bardo and T. Ford	352,288	Nov. 9	822	220	37	616
Hydrant	J. Burnett and G. Eichert	341,463	May 4	607	166	35	615
Hydrant	T. K. Christie	349,206	Sept. 14	916	235	36	1220
Hydrant	T. and J. Galvin	337,945	Mar. 16	1435	372	34	1197
Hydrant	E. Hand	353,217	Nov. 23	2081	557	37	874
Hydrant	J. C. Kupferle	338,756	Mar. 30	2565	677	34	1414
Hydrant	J. Mead	349,230	Sept. 14	956	244	36	1227
Hydrant	G. A. Ogelsby	353,581	Nov. 30	2606	695	37	978
Hydrant	P. P. Quirin	341,687	May 11	1003	265	35	702

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Hydrant	E. Schlenker	346,951	Aug. 10	647	173	36	593
Hydrant and fire-plug	H. E. Earle	353,739	Dec. 7	123	34	37	1029
Hydrants. Valve attachment for	L. G. Keyes	351,924	Nov. 2	283	79	37	509
Hydraulic apparatus	L. Belder	337,118	Mar. 2	315	82	34	984
Hydraulic elevator	W. T. Fox	355,159	Dec. 28	2186	577, 578	37	1435
Hydraulic elevator	N. P. Otis	354,070	Dec. 7	606	166, 167	37	1117
Hydraulic elevator-engine	J. Gibbins	337,056	Mar. 2	232	61, 62	34	968
Hydraulic elevator. Telescoping	A. Fitts	344,038	June 22	1814	466	35	1358
Hydraulic engine	C. W. Cooper	343,569	June 15	1176	296, 297	35	1234
Hydraulic engine	C. R. Whittier	341,198	May 4	314	89	35	563
Hydraulic gate or water-regulator	C. H. Colquhoun	348,266	Aug. 31	2557	687	36	967
Hydraulic jack	C. Huebner	338,598	Mar. 23	2321	608	34	1365
Hydraulic jack	J. Weeks and H. Traver	334,206	Jan. 12	1014	270	34	196
Hydraulic lift or hoist	H. M. L. Crouan	344,307	June 22	2191	562, 563	35	1426
Hydraulic method and machinery	N. B. Eldred	354,112	Dec. 14	675	182	37	1138
Hydraulic motor	B. F. Cooper	341,732	May 11	1058	280, 281	35	713
Hydraulic motor	A. B. Crowell	352,229	Nov. 9	742	199	37	602
Hydraulic motor	N. E. Harris	337,766	Mar. 9	1181	307	34	1144
Hydraulic motor	P. F. Heltzel	348,010	Aug. 24	2160	581	36	891
Hydraulic motor	P. Murray, Jr	348,136	Aug. 24	2352	631	36	924
Hydraulic motor	G. S. Pidgeon	337,864	Mar. 16	1318	342, 343	34	1175
Hydraulic motor	T. Powers	345,446	July 13	905	226, 227	36	168
Hydraulic press	G. Griffin	347,237	Aug. 10	1048	280, 281	36	666
Hydraulic press	C. E. Heiss	346,913	Aug. 10	598	161	36	584
Hydraulic press	J. H. McGowan	348,568	Sept. 7	47	13	36	1056
Hydraulic shears	E. Boehme	345,358	July 13	776	194, 195	36	145
Hydraulic shears	E. Boehme	345,359	July 13	777	195	36	146
Hydro-extractor. Centrifugal	C. E. Dulin	346,030	July 20	1765	454, 455	36	329
Hydrocarbon-burner	W. Barraclough	351,954	Nov. 2	325	90	37	518
Hydrocarbon-burner	C. W. Heiné	353,027	Nov. 23	1800	483, 484	37	819
Hydrocarbon-burner	L. B. White	353,105	Nov. 23	1923	516	37	843
Hydrocarbon-engine	J. P. Holland	337,000	Mar. 2	157	42, 43	34	953
Hydrocarbon-furnace	A. H. Shipman	353,169	Nov. 23	2014	540	37	860
Hydrocarbon generator and burner	J. B. Deeds	342,189	May 18	1662	444	35	833
Hydrocarbon incandescent light	A. Hellbrun	352,821	Nov. 16	1512	407	37	756
Hydrocarbon oils. Apparatus for burning	E. C. Burgess	346,464	Aug. 3	17	5	36	463
Hydrocarbon-vapor engine	A. K. Rider	335,629	Feb. 9	761	202	34	584
Hydrocarbons. Apparatus for the combustion of liquid	P. Tarbutt	350,783	Oct. 12	955	257	37	181
Hydrometric conveyer	W. C. Parsons	335,236	Feb. 2	216	56, 57	34	479
Ice and for refrigerating purposes. Machine for the manufacture of	E. E. Hendrick	336,233	Feb. 16	1655	432, 433	34	747
Ice-boat	R. S. Green, T. S. Edel, and M. Pagel.	335,124	Feb. 2	32	10	34	446
Ice-breaking vessel	R. Romaine	355,214	Dec. 28	2265	597	37	1451
Ice-carrier	O. T. Moock and G. H. Regar	348,858	Sept. 7	427	115	36	1126
Ice-chamber. Movable	I. Allegretti	349,831	Sept. 28	1789	462	36	1404
Ice-cooling apparatus	W. J. Morawetz	341,039	May 4	87	24, 25	35	521
Ice-cream freezer	J. F. Brown	338,246	Mar. 23	1844	485	34	1282
Ice-cream freezer	C. Hedges	347,600	Aug. 17	1577	419	36	773
Ice-cream freezer	W. J. Tate	337,634	Mar. 9	1022	262	34	1117
Ice-creeper	H. Cottrell	351,966	Nov. 2	342	95	37	522
Ice-creeper	H. Holland	346,286	July 27	2115	544	36	405
Ice-creeper	J. F. McConnell and H. E. Harbster.	344,666	June 29	2678	695	35	1525
Ice-creeper	T. J. McMurray, C. H. Terpany, and S. Fogleson.	341,265	May 4	409	113	35	580
Ice-creeper	J. G. Skinner	340,378	Apr. 20	1841	472	35	343
Ice-creeper	M. S. Weller	351,415	Oct. 26	1902	495	37	364
Ice-creeper	C. F. West	346,338	July 27	2187	561	36	418
Ice-crusher	J. H. Dunbar	342,289	May 18	1813	480	35	860
Ice-cutting machine	R. S. Elliott, W. Page, and H. F. Lewis.	340,435	Apr. 20	1905	490	35	354
Ice-elevators. Slush-remover for	J. S. Field	337,318	Mar. 2	591	155	34	1035
Ice for storing. Apparatus for planing cakes of	J. N. Briggs	346,576	Aug. 3	160	43	36	491
Ice-house	J. O. Beck	344,614	June 29	2612	677	35	1512
Ice-lowering apparatus	J. B. Fischer	342,433	May 25	2042	539	35	908
Ice-machine	O. H. Castle	338,482	Mar. 23	2167	567, 568	34	1339
Ice-machine	F. V. De Coppet	351,368	Oct. 26	1799	473	37	347
Ice-machine	F. Diener	348,192	Aug. 31	2453	659	36	948
Ice-machine	A. Evans, Jr	344,310	June 22	2195	564	35	1427
Ice-machine	G. R. Jarman	349,798	Sept. 28	1740	449	36	1393
Ice-machine	A. R. Kenney	334,120	Jan. 12	870	238	34	169
Ice-machine	T. L. Rankin	354,734	Dec. 21	1588	419, 420	37	1310
Ice-machine	G. O. Rinman	335,386	Feb. 2	419	108	34	517
Ice-machine	J. Schnehle	342,543	May 25	2199	582	35	937
Ice-machine	C. F. Smith	345,548	July 13	1075	274	36	199
Ice-machines, &c. Covering for pipes and surfaces in	C. F. Smith	345,549	July 13	1076	274	36	199
Ice-machines. Device for regulating the flow of liquids in	H. C. F. Cramer	343,437	June 8	985	245	35	1192
Ice-machines. Ice-forming box for	C. F. Smith	345,550	July 13	1076	275	36	199
Ice-making and refrigerating machine	F. A. Smith	349,064	Sept. 14	725	185	36	1183
Ice-making machine. Vacuum	H. Pischon and R. Pfennig	350,270	Oct. 5	230	68	37	48

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ice-pick, chisel, and mallet. Combined	H. M. Dixon	347,998	Aug. 24	2163	576	36	887
Ice-planers. Scraper attachment for	W. J. Temple	354,361	Dec. 14	1047	280	37	1205
Ice planing and ridging machine	S. L. Smith	340,737	Apr. 27	2349	618	35	439
Ice-road machine	C. C. Stephenson	348,502	Aug. 31	2862	775	36	1031
Ice-sawing machine	G. Stadtmiller	343,739	June 15	1427	356	35	1278
Ice-scraper	J. T. Thompson	340,169	Apr. 20	1532	388	35	286
Ice-shaver grip	I. C. Souders	342,813	June 1	53	13	35	1016
Ice-tongs	E. A. Collins	339,044	Mar. 30	2978	788	34	1488
Ice-tongs	C. H. Moore	354,431	Dec. 14	1129	303	37	1220
Illuminating apparatus. Electric	E. N. Gaillard	333,742	Jan. 5	342	93	34	64
Illuminating-flames. Automatic device for raising	J. Bachner	342,492	May 25	2125	562	35	924
Illumination. Electric	C. E. Buell	344,344	June 29	2242	577	35	1443
Impalement-trap for house-breakers	E. Fisher	355,070	Dec. 28	2056	540	37	1409
Incandescent	E. Weston	334,142	Jan. 12	899	.....	34	175
Incandescents. Making	C. M. Ball	346,345	July 27	2195	.....	36	420
Incandescents. Making	E. Weston	340,402	Apr. 20	1868	480	35	348
Incandescents. Manufacture of	A. De Lodyguine	347,164	Aug. 10	954	.....	36	649
Incandescents. Manufacture of	R. Dick	349,572	Sept. 21	1420	.....	36	1327
Incinerating apparatus. Sewage and night-soil	P. C. Close	352,857	Nov. 16	1557	420	37	765
Incubator	J. L. Campbell	333,828	Jan. 5	457	124	34	85
Incubator	W. Y. Cowl	337,308	Mar. 2	577	152	34	1032
Incubator	G. E. Davis and C. R. Look	339,153	Apr. 6	50	16	35	12
Incubator	J. K. Meschter	347,946	Aug. 24	2092	556	36	876
Incubator	W. Miller	347,249	Aug. 10	1068	286	36	670
Incubator	G. B. Rankin	344,200	June 22	2047	524	35	1400
Incubator	E. S. Renwick	335,961	Feb. 9	1231	328	34	668
Incubator	E. S. Renwick	339,013	Mar. 30	2937	777	34	1481
Incubator	E. S. Renwick. (Reissue)	10,716	Apr. 27	2654	699 / 700	35	495
Incubator	F. Rosebrook	349,749	Sept. 28	1674	432	36	1381
Incubator	C. L. Wells	351,729	Oct. 26	2352	612	37	450
Incubator	W. H. Worswick	348,368	Aug. 31	2686	723	36	994
Incubators, &c. Automatic regulator for	P. C. Morse	343,053	June 1	395	100 / 101	35	1078
Incubators. Heat-regulating attachment for	J. W. Campbell	344,474	June 29	2419	623	35	1475
Incubators. Heat-regulator for	L. H. Cutting	345,280	July 13	670	169	36	127
Incubators. Heat-regulator for	H. Kiliam	353,865	Dec. 7	300	79	37	1062
Incubators. Heat-regulator for	G. A. Muenchinger	346,938	Aug. 10	631	169	36	590
Incubators. Heat-regulator for	G. B. St. John	353,272	Nov. 23	2457	577	37	888
Incubators. Temperature-regulating device for	J. M. Halsted	352,053	Nov. 2	468	127	37	547
Incubators. Thermostatic regulator for	J. W. Campbell	351,494	Oct. 26	2019	524	37	367
Index	T. P. Pattison	351,281	Oct. 19	1673	439	37	319
Index	P. J. Schlicht	347,304	Aug. 10	1152	308 / 309	36	685
Index	P. J. Schlicht	347,305	Aug. 10	1153	309	36	685
Index	M. B. Smyth	350,848	Oct. 12	1033	284	37	201
Index for books	J. F. Trow	341,782	May 11	1118	296	35	724
Index for letter-books	R. Spurgin	337,454	Mar. 9	800	203	34	1077
Indexing-machine for books	F. W. Hewes	343,175	June 8	587	147	35	1122
Indicating apparatus	C. L. Clarke	347,571	Aug. 17	1534	408	36	764
Indicating apparatus. Pointer for	T. H. Shepherd	340,009	Apr. 13	1305	326	35	239
Indicator: *See* Bilge-water indicator. Cash-indicator. Discal indicator. Electric-current indicator. Electrical indicator. Elevator-indicator. Fire-alarm indicator. Musical key indicator. Number-indicator. Office-indicator. Pressure-indicator. Reservoir-indicator. Scale-indicator. Speed-indicator. Speed and station indicator. Station-indicator. Steam-boiler indicator. Steam-boiler water-indicator. Steam-engine indicator. Street and station indicator. Watch-winding indicator. Water-closet indicator. Water-level indicator.							
Indicator-bolt	A. E. Barrett	338,463	Mar. 23	2147	561	34	1336
Indicator-lock	C. F. Green	342,295	May 18	1827	483	35	862
Indicator-lock	C. F. Green	343,901	June 15	1622	413	35	1317
Indicator-lock	C. F. Green	353,557	Nov. 30	2578	689	37	974
Induction-coil	A. M. A. Beale	342,947	June 1	247	63	35	1051
Induction-coil	D. Drawbaugh	344,818	July 6	19	5	36	6
Induction-coil	F. W. Jones	344,318	June 22	2204	566	35	1428
Induction-coil	G. and A. Pfannkuche	343,602	June 15	1218	306 / 307	35	1242
Induction-coil	W. Stanley, Jr	349,611	Sept. 21	1468	379	36	1336
Induction-coil	W. Stanley, Jr	349,612	Sept. 21	1469	379	36	1337
Induction-coil	W. Stanley, Jr	349,616	Sept. 21	1474	381	36	1338
Induction-coil	W. Stanley, Jr	349,617	Sept. 21	1475	381	36	1338
Induction-coil	F. F. Stögermayer	351,077	Oct. 19	1400	368	37	268
Induction-coil	E. Thomson	354,274	Dec. 14	929	245	37	1181
Induction-coil	G. Westinghouse, Jr	342,553	May 25	2211	587 / 588	35	939
Induction-coil	K. Zipernowsky, M. Déri, and O. T. Bláthy	352,105	Nov. 2	546	144	37	560
Induction-coil for telephone-service	E. B. Hamlin	350,130	Oct. 5	44	12	37	11
Induction-coil. Medical	L. Drescher	352,084	Nov. 2	511	137	37	555
Ingot-mold	A. Matthes and H. W. Lash	342,920	June 1	206	53	35	1042
Ingot-mold	J. Sabold	348,779	Sept. 7	327	87	36	1108
Ingot-mold	J. Sabold	354,741	Dec. 21	1603	425	37	1312
Ingot-mold	J. Sabold	354,742	Dec. 21	1605	425	37	1312
Ingot-mold	J. Sabold	354,743	Dec. 21	1606	425	37	1312

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ingot-mold. Compound	J. Illingworth	349,998	Sept. 28	2008	518, 519	36	1445
Ingot-mold. Compound	C. Parkin	347,636	Aug. 17	1648	437	36	786
Ingot-mold cover	A. J. Lustig	344,451	June 29	2388	615	35	1470
Ingots. Guide for molds for compound	E. Wheeler	354,284	Dec. 14	947	250	37	1185
Inhaler	E. B. Adams	350,711	Oct. 12	864	232	37	165
Inhaler	F. A. Chesebro	354,377	Oct. 26	2144	555	37	410
Inhaler	H. D. Cushman	333,608	Jan. 5	146	45	34	30
Inhaler	H. D. Cushman	333,609	Jan. 5	147	40	34	30
Inhaler	H. D. Cushman	351,744	Nov. 2	19	5	37	462
Inhaler	G. A. Evans	339,980	Apr. 13	1262	315	35	232
Inhaler	W. H. Hanersly	346,909	Aug. 10	592	158	36	583
Inhaler	M. W. Hobbs	346,477	Aug. 3	37	9	36	467
Inhaler	C. Ulbrick	352,668	Nov. 16	1316	354	37	718
Inhaler	D. B. Weightman	353,613	Nov. 30	2657	711	37	988
Inhaler	T. B. Wilcox	351,677	Oct. 26	2287	592	37	438
Inhaler	W. C. Wilson	341,712	May 11	1334	274	35	708
Inhaler and atomizer. Combined	H. Thomas	335,322	Feb. 2	328	86	34	500
Inhaler and respirator	S. H. Brown	349,687	Sept. 28	1566	406	36	1363
Inhaler and respirator	C. W. Munson	345,718	July 20	1318	341	36	250
Inhaler. Vaporizing	J. F. Chesebro	349,085	Sept. 14	755	193	36	1188
Inhalers. Holder for gas	W. H. Gilbert	340,778	Apr. 27	2399	632	35	449
Inhalers. Mixing and vaporizing device for	G. E. Johnson	337,066	Mar. 2	243	65	34	970
Inhaling device	M. W. Hobbs	353,220	Nov. 23	2084	558	37	874
Injector	S. Borland	354,176	Dec. 14	778	208	37	1155
Injector	S. Borland	354,177	Dec. 14	780	208	37	1156
Injector	W. P. Brachmann	347,566	Aug. 17	1527	406, 407	36	763
Injector	W. L. Cheney	344,475	June 29	2421	623	35	1475
Injector	J. Desmond	336,398	Feb. 16	1488	494	34	790
Injector	A. S. Eberman	334,852	Jan. 26	1902	507	34	374
Injector	N. W. Girdwood	338,950	Mar. 30	2835	747	34	1464
Injector	J. Gresham. (Reissue)	10,697	Mar. 9	1237	321	34	1154
Injector	H. Holden, R. G. Brooke, and T. H. White.	344,480	June 29	2427	624, 625	35	1476
Injector	E. P. Howe	349,997	Sept. 28	2005	518	36	1445
Injector	J. Jenks and T. J. Hart	342,604	May 25	2285	604	35	953
Injector	J. Jenks and T. J. Hart	347,245	Aug. 10	1058	283	36	667
Injector	F. W. Kremer	335,227	Feb. 2	204	53	34	476
Injector	J. Loftus	348,025	Aug. 24	2200	587	36	895
Injector	W. B. Mack	334,124	Jan. 12	874	240	34	170
Injector	J. M. Marty	341,029	May 4	77	21	35	519
Injector	J. M. Marty	341,030	May 4	78	21	35	519
Injector	W. T. Messinger	350,545	Oct. 12	621	172	37	120
Injector	W. T. Messinger	350,546	Oct. 12	624	173	37	121
Injector	W. T. Messinger	350,547	Oct. 12	627	173	37	121
Injector	S. W. Moreland	333,534	Jan. 5	52	15	34	12
Injector	H. B. Murdock	334,266	Jan. 12	1112	298	34	214
Injector	P. Schneider, H. Trenkamp, and N. Flammang.	351,287	Oct. 19	1660	441	37	320
Injector	W. J. Sherriff	337,877	Mar. 16	1336	346	34	1179
Injector	O. Westphal	345,200	July 6	551	141	36	100
Injector	T. H. White	349,191	Sept. 14	898	231	36	1216
Injector and extractor	C. C. Burton	338,710	Mar. 30	2494	660	34	1402
Injector. Double-tube	J. R. Goehring	353,490	Nov. 30	2471	660	37	953
Injector. Steam	J. Desmond	334,354	Jan. 12	1232	331	34	236
Injector. Steam	W. Pemberthy	343,139	June 1	528	134	35	1102
Ink	I. Ramsdell	345,448	July 13	998	.....	36	169
Ink. Composition for removing	A. Buchten	342,279	May 18	1793	.....	35	857
Ink eraser and burnisher. Combined	G. S. Couch	345,031	July 6	334	84	36	61
Ink-pad holder	E. D. Chamberlain	340,761	Apr. 27	2381	627	35	445
Ink-well	W. Shriver and W. M. Peard	350,325	Oct. 5	301	86	37	61
Ink-well cover	J. E. Whitman and E. M. Brown	334,148	Jan. 12	909	249	34	177
Inking-pad	B. B. Hill	352,363	Nov. 9	867	233	37	625
Inking-roller	M. V. B. Ethridge	345,035	July 6	338	85	36	62
Inkstand	C. C. Algeo	343,686	June 15	1339	334	35	1263
Inkstand	H. A. Burgess	346,263	July 27	2087	537	36	400
Inkstand	E. W. Marshall	352,095	Nov. 2	531	141	37	558
Inkstand	F. McGar	344,125	June 22	1941	496	35	1351
Inkstand	J. P. Stepp	349,411	Sept. 21	1198	310	36	1283
Insect-powder distributer	T. W. Houchin, C. B. Riker, and W. P. Houchin.	335,817	Feb. 9	1033	273	34	633
Insect-powder gun	C. A. Fonerden and H. Bell	337,943	Mar. 16	1433	371	34	1197
Insect-screen	T. Dougherty	351,502	Oct. 26	2031	528	37	389
Insect-trap	J. Tesch	341,290	May 4	458	124	35	588
Insecticide	H. W. Armington	341,868	May 18	1241	.....	35	756
Insecticide	T. J. Boyer	351,897	Nov. 2	237	.....	37	502
Insecticide	R. McKee	350,690	Oct. 12	839	.....	37	159
Insecticide	T. W. Shugart and C. D. Clifton	333,893	Jan. 5	537	.....	34	100
Insecticides, &c. Making	H. H. Smith	338,110	Mar. 16	1666	.....	34	1239
Insole	D. E. Goldthwait	343,990	June 23	1743	449	35	1346
Insole	C. W. King	346,553	Aug. 3	130	35	36	485
Insole	A. P. Rindskopf	349,859	Sept. 28	1825	471	36	1411
Insoles. Frame for the manufacture of	E. Meise	343,670	June 15	1311	329	35	1258
Insulating and protecting electric wires and cables	J. W. and F. R. Hoard	342,694	May 25	2414	.....	35	977
Insulating-clamp for electric wires	J. W. Holdsworth	350,365	Oct. 5	353	102	37	71
Insulating-conduit	W. W. Averell	348,880	Sept. 7	464	123	36	1133
Insulating-coupling for combined electric-light and gas fixtures.	C. S. Forsyth	350,355	Oct. 5	339	97	37	69
Insulating electric cables	R. A. Denison	334,850	Jan. 26	1897	506	34	373
Insulating electric conductors. Composition of matter for	C. J. Van Depoele	353,653	Nov. 30	2730	.....	37	1000
Insulating electric wires	D. Brooks, Jr.	340,931	Apr. 27	2600	685	35	485

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr.	Official Gazette. Vol.	Official Gazette. Page.
Insulating electric wires. Composition for	W. J. Rigney and J. Wolff	336,018	Feb. 9	1308	.....	34	681
Insulating-joint	D. Williamson	354,291	Dec. 14	954	252	37	1186
Insulating material. Composition of matter for	J. B. Williams	335,495	Feb. 2	564	.....	34	542
Insulating material for electric wires	D. Brooks, Jr.	352,852	Nov. 16	1552	.....	37	764
Insulating-support for electric wires	A. Brandon	342,324	May 25	1878	497	35	881
Insulating telegraph-wire, &c. Compound for	R. Alexander	351,611	Oct. 26	2196	.....	37	420
Insulating wire and conductor for electrical purposes	T. J. Pearce and M. W. Beardsley	348,994	Sept. 14	620	.....	36	1166
Insulating wires. Composition to be used for	J. Howe	339,777	Apr. 13	908	.....	35	182
Insulation. Composition of matter for electrical	E. D. Kendall	339,787	Apr. 13	1007	.....	35	184
Insulation of wires covered with cotton, silk, or worsted braid or tape. Composition of matter for the electrical	J. Fottrell	344,823	July 6	26	.....	36	7
Insulator	R. G. Brown	353,120	Nov. 23	1939	520	37	846
Insulator	N. T. Fitch	349,788	Sept. 28	1728	446	36	1391
Insulator	C. L. Travis	336,828	Feb. 23	2476	651	34	903
Insulator-block for electric conductors	T. Hawken	346,475	Aug. 3	36	9	36	467
Insulator. Electric	H. D. Winton	352,436	Nov. 9	1007	271, 272	37	654
Insulator. Electric	H. D. Winton	352,437	Nov. 9	1008	272	37	655
Insulator. Electric-circuit-wire	E. C. Blake and E. C. Trimnell	342,320	May 25	1872	496	35	880
Insulator. Electric-wire	B. Seaboldt	340,734	Apr. 27	2346	618	35	438
Insulator for electric wires	J. M. Leonardson	347,943	Aug. 24	2089	554	36	875
Insulator for electrical conductors	S. F. McGill	349,893	Sept. 28	1865	481	36	1419
Insulator for telegraph-wires	J. Wilson	336,276	Feb. 16	1718	448	34	758
Insulator-pins for telegraphic purposes. Machine for manufacturing	C. Rogers	350,843	Oct. 12	1056	282, 283	37	200
Insulator. Telegraph	J. O'Brien	347,635	Aug. 17	1647	437	36	785
Insulator. Telegraph	J. Wilson	346,971	Aug. 10	675	179	36	598
Insulator. Telegraph	J. Wilson	346,972	Aug. 10	676	179	36	598
Insulators. Pin-holder for electric-wire	M. Hanks	355,165	Dec. 28	2197	579	37	1437
Interfering-pad	G. W. Fry	348,003	Aug. 24	2171	578	36	889
Interlocking system	E. J. Remillon	350,993	Oct. 19	1291	338, 339	37	249
Intestines. Machine for cleaning	J. Cunning	337,928	Mar. 16	1407	365	34	1192
Intestines. Machine for cleaning	J. Cunning	354,047	Dec. 7	575	156	37	1110
Intercheng-tool	J. H. Patterson	350,151	Oct. 5	77	32	37	17
Invalid-chair	C. E. Anderson	338,330	Mar. 23	1957	515	34	1302
Invalid-chair	C. Clarke	347,321	Aug. 17	1182	316	36	700
Iron: *See* Buggy-iron. Carriage-seat iron. Carriage-seat corner-iron. Chair-iron. Clip-iron. Curling-iron. Fluting and smoothing iron. Sad-iron. Smoothing-iron. Smoothing and polishing iron. Soldering-iron. Tailor's gas-iron.							
Iron and steel. Apparatus for the manufacture of	E. F. Falconnet	338,722	Mar. 30	2512	665	34	1405
Iron by means of fluorine. Dephosphorizing	J. Henderson	347,349	Aug. 17	1218	.....	36	706
Iron by means of oxides of iron. Dephosphorizing	J. Reese	349,744	Sept. 28	1668	.....	36	1380
Iron. Device for loading pig	E. Thomas	344,322	June 22	2076	531	35	1406
Iron heater. Flat	E. Dillon	346,740	Aug. 3	362	97	36	531
Iron. Machine for straightening bar	R. T. Barton	346,884	Aug. 10	550	149	36	575
Iron. Making sheet	R. G. Wood	348,258	Aug. 31	2544	683	36	965
Iron or steel. Machine for splitting bars and sheets of	C. M. Carnahan. (Reissue)	10,729	May 25	2524	674	35	998
Iron. Smoothing	G. G. Oldaker	351,935	Nov. 2	304	84, 85	37	513
Ironing-board	J. H. Cable	354,768	Dec. 21	1640	434	37	1320
Ironing-board	W. I. Clous	336,698	Feb. 23	2309	604	34	871
Ironing-board	T. J. Cross and J. Stout	341,797	May 11	1135	300	35	727
Ironing-board	L. M. Darrow	352,182	Nov. 9	685	183	37	591
Ironing-board	W. Feigel	345,676	July 20	1267	328	36	241
Ironing-board	F. G. Manley	343,045	June 1	384	98	35	1076
Ironing-board	J. Matthias	352,338	Nov. 9	886	238	37	629
Ironing-board	J. C. Near	354,566	Dec. 21	1335	354	37	1263
Ironing-board	G. W. Schenck	341,279	May 4	430	117	35	584
Ironing-board	J. H. Williams	338,126	Mar. 16	1684	438	34	1243
Ironing-board and plaiting-machine	C. R. Belanski and H. Pitts	344,805	July 6	4	1	36	3
Ironing-machine	J. D. Hill	345,785	July 20	1422	368	36	268
Ironing-machine	I. F. Jacques	341,484	May 11	713	192	35	644
Ironing-machine	C. A. Lieb and C. L. Hines	340,225	Apr. 20	1622	410	35	302
Ironing-machine	J. L. Mazoyer	352,702	Nov. 16	1363	368	37	728
Ironing-machine	A. Niles	342,221	May 18	1704	454	35	842
Ironing-machine	H. L. Richardson	339,213	Apr. 6	139	37	35	27
Ironing-machine	H. E. Smith	345,737	July 20	1352	352	36	256
Ironing-machine	H. E. Smith	345,996	July 20	1714	442	36	320
Ironing-machine	L. H. Watson	353,769	Dec. 7	159	44, 45	37	1036
Ironing-machine	C. Wolff	341,980	May 18	1383	369	35	781
Ironing-machine	F. A. Zschiesche	339,250	Apr. 6	199	50, 51	35	37
Ironing machine. Corset	D. Grotta	344,778	June 29	2-27	732	35	1551
Ironing machine. Corset	D. Grotta	344,779	June 29	2828	733	35	1551
Ironing-table	A. E. Adair	351,240	Oct. 19	1620	425	37	309
Ironing-table	M. J. Baker	336,077	Feb. 16	1406	373	34	705
Ironing-table	J. E. Bowman	347,287	Aug. 10	1123	301	36	679
Ironing-table	T. N. Johnson	337,686	Mar. 9	1081	280	34	1127
Ironing-table	A. P. Lacey	339,193	Apr. 6	106	30	35	32
Ironing-table	E. Ruse	339,115	Mar. 30	3080	815	34	1504
Ironing-table	C. G. Udell	340,641	Apr. 27	2216	581	35	416
Ironing-table	D. C. Woodward	354,821	Dec. 21	1706	451	37	1332
Ironing-table. Folding	D. C. Fletcher	337,389	Mar. 9	683	178	34	1058
Ironing-table. Skirt	R. Long	354,796	Dec. 21	1672	442	37	1326
Irrigation of land	C. B. Cox	334,645	Jan. 19	1631	435	34	315
Irrigation. System of	G. W. Jessup	346,920	Aug. 10	606	163	36	585

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Jack:							
See Boot and shoe jack. Jumping-jack.							
Boot or shoe jack. Lifting-jack.							
Boot or shoe finishing jack. Pegging-jack.							
Screw-jack.							
Carriage-jack. Shoe-maker's jack.							
Carriage and wagon jack. Smoke-jack.							
Vehicle-jack.							
Flooring-jack. Wagon-jack.							
Hand-jack. Window-jack.							
Hydraulic jack.							
Jack-carrier	C. H. Driver	345,290	July 13	964	244	36	179
Jacket for children	H. Maltby	353,796	Dec. 7	200	54	37	1044
Jacquard machine	J. Jackson	351,512	Oct. 26	2044	530	37	392
Jacquard machine	J. Verdol	346,877	Aug. 3	539	146 / 147	36	565
Jacquard mechanisms. Card-steadying pin for prisms of	W. Webb	339,238	Apr. 6	176	46	35	34
Jail or prison	C. C. Rittenhouse	345,924	July 20	1612	415 / 416	36	302
Japanning apparatus	F. Crane	350,869	Oct. 12	1090	291	37	206
Jar:							
See Air-tight jar. Milk-jar.							
Drill-jar. Rope-jar.							
Fruit-jar.							
Jar	G. W. Johnston	339,556	Apr. 6	656	158	35	118
Jar	W. Somerville	345,999	July 20	1718	443	36	321
Jar-clamp	H. Buchholz	339,063	Mar. 30	3032	801	34	1495
Jar-clamp	W. L. Imlay	345,142	July 6	477	121	36	87
Jar-clamp	E. H. Rice	353,590	Nov. 30	2626	701	37	982
Jar-cover	J. Doherty	347,095	Aug. 10	859	228	36	630
Jar-cover	W. F. McFarland	336,730	Feb. 23	2349	615	34	879
Jar-fastening	H. M. Guild	335,445	Feb. 2	498	129	34	530
Jar fastening. Fruit-	G. B. Henrie	335,754	Feb. 9	941	248	34	616
Jar fastening. Preserve-	H. M. Guild	335,444	Feb. 2	497	129	34	530
Jar-tops. Fastener for	R. Hemingray	342,602	May 25	2283	604	35	952
Jars. Adjustable bail and cover-holder for	M. Alston	334,922	Jan. 26	1989	530	34	390
Jars. Cover for	A. W. Brightwell	352,392	Nov. 9	954	255	37	644
Jars. Gasket for	E. R. Deverall	344,173	June 22	2007	514	35	1393
Jars, &c. Sealing	J. W. Wilder	351,823	Nov. 2	130	36	37	483
Jaw-trap	J. J. Skinner	351,809	Nov. 2	113	31	37	479
Jet apparatus	W. R. Park	352,980	Nov. 23	1734	465	37	806
Jewel. Rotary	H. and G. Gaenssslen	340,108	Apr. 20	1440	364	35	269
Jeweler's box	J. F. Dubber	335,746	Feb. 9	932	245	34	614
Jeweler's cabinet	T. W. Sweney	337,798	Mar. 9	1222	318	34	1151
Jeweler's stock	G. H. Knight	346,661	Aug. 3	268	73	36	513
Jewelry and ornamenting the same. Article of	E. A. Thiéry and C. F. Croselmire	333,697	Jan. 5	275	75	34	52
Jewelry. Article of	J. C. Cottle	353,482	Nov. 30	2463	658	37	951
Jewelry. Hinge-joint for	G. Becker	354,458	Dec. 14	1171	313	37	1228
Jig. Machinist's	J. Brady	334,340	Jan. 12	1209	326	34	232
Joiner's set	W. H. Dehné	344,033	June 22	1807	465	35	1357
Joining metallic sections	A. McKellar	354,988	Dec. 28	1940	512	37	1388
Joint:							
See Ball-joint. Locket-joint.							
Buggy-top joint. Packing-joint.							
Carriage-top joint. Pipe-joint.							
Coupling-joint. Rail-joint.							
Expansion-joint. Railway-joint.							
Frame-joint. Railway-rail joint.							
Insulating-joint. Wire joint.							
Joint for frames of pictures and other frames	J. Apoll	354,824	Dec. 21	1710	453	37	1333
Joints. Stop for expansion-	J. B. White	337,037	Mar. 2	210	55	34	964
Journal and bearing	C. H. Fisher	352,403	Nov. 9	966	259	37	646
Journal and bearing	F. B. Torrey	335,047	Jan. 26	2163	575	34	420
Journal-bearing	W. A. Frank and T. Wicks	352,685	Nov. 16	1339	361	37	723
Journal-bearing	G. M. Kernodle	350,749	Oct. 12	912	245	37	173
Journal-bearing	W. Lahey	351,606	Oct. 26	2188	565	37	419
Journal-bearing	J. F. Morell	351,279	Oct. 19	1670	438	37	318
Journal-bearing	M. Randolph	349,055	Sept. 14	716	183	36	1182
Journal-bearing	M. Randolph	349,056	Sept. 14	717	183	36	1182
Journal-bearing	M. Randolph	349,057	Sept. 14	719	183	36	1182
Journal-bearing	A. W. Spatzier	333,560	Jan. 5	81	23	34	18
Journal-bearing	F. F. Swain	341,392	May 4	592	163	35	612
Journal-bearing. Anti-friction	W. Kratzer	334,670	Jan. 19	1664	445	34	322
Journal-bearing for crank-connecting rods	L. H. Nash	334,034	Jan. 12	742	203	34	146
Journal-bearing. Lubricating	E. L. Mansfield	354,326	Dec. 14	999	265	37	1195
Journal-bearing. Self-lubricating	I. W. Doeg	352,680	Nov. 16	1333	359	37	722
Journal-box	J. B. Allfree	351,015	Oct. 19	1320	347	37	254
Journal-box	G. R. Meneely	345,798	July 20	1438	372	36	271
Journal-box	C. L. Morehouse	336,541	Feb. 16	1813	475	34	775
Journal-box	F. M. Roots	349,361	Sept. 21	1131	291	36	1270
Journal-box	R. W. Traylor	334,490	Jan. 19	1420	382	34	277
Journal-box. Anti-friction	W. S. Sharpneck	354,941	Dec. 28	1882	496	37	1378
Journal-box bearing. Anti-friction	A. M. Wellington	342,488	May 25	2116	559	35	922
Journal-boxes. Attachment for	A. B. Griswold and J. M. Bradbury.	349,937	Sept. 28	1922	497	36	1430
Journal-boxes. Composition of matter to be used for	F. J. Coburn and E. M. Dean	350,911	Oct. 19	1148	.....	37	223
Journal-boxes. Fastening soft-metal wearing-surfaces in	D. A. Woodbury	337,468	Mar. 9	820	207	34	1080
Journals. Bearing-brass for car-axle	M. E. Harrison	345,232	July 6	595	151	36	108
Jump-seat	G. H. Hutton	342,964	June 1	268	69	35	1055
Jump-seat	G. H., Jr., and M. B. Hutton	340,948	Apr. 27	2624	691	35	488

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Jump-seat iron	A. F. Shuler	334,905	Jan. 26	1966	523	34	386
Jumping-jack	J. R. and E. E. Hersh	353,416	Nov. 30	2367	631	37	933
Jumping-jack	J. A. Kienardt	336,923	Mar. 2	56	15	34	937
Jumping-jack	J. A. Kienardt	338,979	Mar. 30	2871	759	34	1470
Justifying-machine	R. L. Kimberly	342,364	May 25	1943	513 514	35	892
Keel-block. Liquid-bedded	F. C. Lang	341,582	May 11	856	227	35	672
Keg. Convertible	J. H. Scheel	338,443	Mar. 23	2121	555	34	1330
Kegs. Device for branding	H. Zimmermann	338,578	Mar. 23	2293	601	34	1360
Kettle	E. O. Eaton	347,334	Aug. 17	1195	320	36	702
Kettle. Candy	T. Burkhard	352,642	Nov. 16	1274	344	37	710
Kettle. Confectioner's	J. S. Huyler	342,016	May 18	1429	384	35	789
Kettle-cover	A. W. Frank	346,405	July 27	2284	586	36	437
Kettle for candy and other substances. Cooking	T. Burkhard	349,084	Sept. 14	754	192	36	1188
Kettle. Steam	H. Wernet	335,663	Feb. 9	805	215	34	592
Key: *See* Extension-key. Railway-track key. Telegraph-key. Telegraphic key. Watch-key. Watch-pendant key.							
Key	J. H. Barnes and J. H. Woolaston	353,113	Nov. 23	1931	518	37	844
Key	E. B. Slater	334,814	Jan. 26	1855	494	34	366
Key-board	S. Stewart	334,484	Jan. 19	1412	380	34	275
Key-board player	R. T. Smith	346,239	July 27	2055	528	36	394
Key-board player	R. T. Smith	347,134	Aug. 10	907	242 243	36	640
Key-fastener	C. W. Bradford	336,788	Feb. 23	2424	638	34	893
Key-fastener	W. C. Gere	347,170	Aug. 10	963	257	36	650
Key-fastener	D. T. Phillips	350,839	Oct. 12	1052	281	37	199
Key-fastener	A. E. Shader	352,957	Nov. 23	1701	457	37	800
Key-fastener	C. A. Singer	344,416	June 29	2346	603	35	1462
Key-fastener	J. E. Whidden	342,554	May 25	2212	588	35	939
Key-hole guard	W. W. Broga	336,789	Feb. 23	2425	638	34	894
Key-hole guard	C. Pior	341,388	May 4	588	161	35	612
Key-hole guard	K. Rumetsch	345,396	July 13	831	209	36	155
Key-hole guard	A. K. Spencer and C. A. Smith	352,015	Nov. 9	415	113	37	535
Key-ring	I. Besse	345,407	July 13	845	211	36	157
Key-ring	T. W. Henry	338,268	Mar. 23	1871	492	34	1287
Key-seat cutter	A. M. Benson	335,333	Feb. 2	346	90	34	503
Key-shaping machine. Spring	J. Murray and D. A. Brislin	345,717	July 20	1315	340 341	36	250
Keyways. Machine for cutting	J. L. Oefinger	340,348	Apr. 20	1802	462	35	336
Keying-clamp	R. S. Abernethy	338,458	Mar. 23	2139	559	34	1334
Kiln: *See* Bone-black kiln. Brick-kiln. Brick and tile kiln. Brick-drying kiln. Brick or other kiln. Charcoal-kiln. Hop-kiln. Limekiln. Tile-kiln. Tile and pottery kiln.							
Kiln	L. Simpson	349,755	Sept. 28	1681	434	36	1382
Kiln for and method of burning clay	J. Stubbs	338,206	Mar. 16	1787	467	34	1264
Kiln for bricks, lime, pottery, &c	W. H. Melcher	339,001	Mar. 30	2920	773	34	1477
Kiln for burning bricks, &c	W. Jones	336,720	Feb. 23	2336	612	34	876
Kiln for drying purposes	B. P. Harris and A. Stagg	349,091	Sept. 14	766	195	36	1191
Kiln for pottery, &c	S. W. Dixon	339,535	Apr. 6	622	151 152	35	113
King-bolt	G. W. Simmons	351,472	Oct. 26	1989	516	37	381
Kitchen-cabinet	E. H. Fowler	340,944	Apr. 27	2620	690	35	488
Kitchen-cabinet	C. W. Johnson	344,909	July 6	162	41	36	30
Kitchen-cabinet	W. N. and E. A. Fisher	338,836	Mar. 30	2677	704	34	1434
Kitchen-cabinet	L. May	334,260	Jan. 12	1103	295	34	212
Kitchen-cabinet	J. A. Mullen	335,034	Jan. 26	2144	570	34	417
Kitchen-cabinet	J. F. Randolph	334,894	Jan. 26	1950	519	34	383
Kitchen utensil	I. A. Teller	338,449	Mar. 23	2129	557	34	1338
Kite	E. J. Colby	354,098	Dec. 14	652	176	37	1134
Knapsacks. Means for carrying	A. Mendel	353,874	Dec. 7	317	82	37	1065
Kneading-machine	J. F. Hughes	353,065	Nov. 23	1865	504	37	830
Kneading machine. Dough	J. G. Tourangeau	342,147	May 18	1614	432	35	824
Knee-cutter	T. C. Belding	343 100	June 1	464	118	35	1091
Knife: *See* Chamfer-knife. Cheese-knife. Cutter-head knife. Hay-knife. Horseshoer's knife. Leather-splitting-machine knife. Mowing-machine knife. Nail-cutting-machine knife. Pocket-knife. Shoe-knife. Shoe-maker's knife. Table-knife. Undercutting-knife.							
Knife	W. B. Hatfield	336,314	Feb. 16	1775	464	34	768
Knife	A. E. Johnson	342,697	May 25	2418	640	35	978
Knife and fork. Combined	G. E. Marks	338,853	Mar. 30	2697	710	34	1439
Knife-blade attachment for slate-frames	J. Field	354,544	Dec. 21	1304	347	37	1258
Knife-bolster	G. Havell	336,107	Feb. 16	1453	383	34	714
Knife-cleaner	I. Lawson	333,761	Jan. 5	365	99	34	68
Knife cleaning and scouring apparatus	T. B. Osborne	350,838	Oct. 12	1048	281	37	198
Knife-grinder. Automatic	C. J. Le Roy	348,753	Sept. 7	293	78	36	1102
Knife handle. Tobacco	R. E. Poindexter	336,429	Feb. 16	1931	506	34	798
Knife-handles. Manufacture of	H. C. Hart	338,521	Mar. 23	2221	583	34	1349
Knife, pencil-sharpener, &c. Pocket	J. W. L. Hillman	346,043	July 20	1780	458	36	331
Knife-polishing machine	S. Byrne	351,738	Nov. 2	11	3, 4	37	461
Knife-sharpener	F. J. Reinhold	343,852	June 15	1561	395	35	1304
Knife-sharpener	E. Shaw and F. D. Walden	337,023	Mar. 2	196	52	34	961
Knife-sharpener. Emery	W. H. Parkin	339,683	Apr. 13	868	213	35	159
Knives. Machine for cleaning and polishing	H. A. H. Guhl	339,095	Mar. 30	3050	806	34	1499

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Knives. Rolls for forming table-	F. L. Whitty	346,138	July 27	1913	494	36	367
Knit fabric	T. S. Baron	345,021	July 6	322	81	36	59
Knit fabric	T. S. Baron. (Reissue)	10,755	Aug. 17	1812	483	36	815
Knit fabrics. Machine for uniting	W. Beattie	354,374	Dec. 14	1061	283, 284	37	1208
Knit fabrics. Machine for uniting	J. Clute	344,897	July 6	144	36, 37	36	26
Knit fabrics. Machine for uniting	J. Clute. (Reissue)	10,763	Sept. 21	1545	399	36	1353
Knit fabrics. Machine for uniting	J. Clute. (Reissue)	10,764	Sept. 21	1547	399, 400	36	1353
Knitted fabric	E. E. Sibley	348,698	Sept. 7	230	61	36	1089
Knitted fabric	W. and R. N. Wrightson	353,652	Nov. 30	2729	728	37	1000
Knitting-machine	J. Auredenn	355,047	Dec. 28	2026	533	37	1403
Knitting-machine	J. L. Branson	334,338	Jan. 12	1205	325, 326	34	232
Knitting-machine	W. Bremner	333,824	Jan. 5	448	122	34	84
Knitting-machine	J. Byfield	354,502	Dec. 14	1234	331	37	1238
Knitting-machine	F. A. Calley	338,478	Mar. 23	2163	555	34	1338
Knitting-machine	C. E. Drew	342,339	May 25	1899	502, 503	35	884
Knitting-machine	W. D. Huse	335,587	Feb. 9	698	185, 186	34	573
Knitting-machine	T. Langham	341,254	May 4	395	109	35	578
Knitting-machine	S Lowe and J. W. Lamb	349,352	Sept. 21	1103	282, 283, 284, 285, 286	36	1265
Knitting-machine	J. Smalley	334,681	Jan. 19	1681	449	34	325
Knitting-machine	J. H. Osborne	349,808	Sept. 28	1757	454	36	1396
Knitting-machine	A. Ward	346,182	July 27	1967	507	36	377
Knitting-machine	G. A. White	336,611	Feb. 23	2181	569, 570	34	847
Knitting-machine	F. Wilcomb	350,793	Oct. 12	975	261	37	185
Knitting-machine	W. and R. N. Wrightson	353,525	Nov. 30	2526	673, 674	37	963
Knitting machine. Circular-	J. Adams	353,244	Nov. 23	2112	566, 567	37	880
Knitting machine. Circular-	G. C. Converse	339,046	Mar. 30	2980	788	34	1488
Knitting machine. Circular-	G. C. Converse	351,624	Oct. 26	2210	572	37	423
Knitting machine. Circular-	G. H. Gilbert	351,590	Oct. 26	2164	559, 560	37	414
Knitting machine. Circular-	J. F. O'Neil	349,448	Sept. 21	1253	324, 325	36	1293
Knitting machine. Circular-	W. Pearson, W. R. Brown, and H. Price.	344,196	June 22*	2042	522	35	1399
Knitting machine. Circular-	W. H. Pepper	346,604	Aug. 3	195	52, 53	36	498
Knitting machine. Circular-	W. H. Pepper	347,505	Aug. 17	1440	382, 383	36	746
Knitting machine. Circular-	W. H. Pepper and A. T. L. Davis	350,466	Oct. 5	507	141, 142, 143, 144	37	97
Knitting-machine latch-guard attachment	G. W. Ents	334,421	Jan. 19	1321	358	34	259
Knitting-machine needle	J. C. Egly	342,739	May 25	2488	661	35	991
Knitting-machine needle	J. C. Egly	345,126	July 6	452	117	36	82
Knitting-machine needles. Machine for bending the ends of	J. H. Bullard	348,151	Aug. 24	2376	637, 638	36	928
Knitting machine. Straight-	F. Wilcomb	350,795	Oct. 12	977	262, 263, 264, 265	37	185
Knitting-machines. Burr for	W. C. Baufill	347,986	Aug. 24	2149	572	36	885
Knitting-machines. Counting apparatus and pattern-card for	P. P. Olsson	350,013	Sept. 28	2030	524	36	1449
Knitting-machines for shaping fabrics. Operating the needles and transfer-points in latch-needle	F. Wilcomb	350,791	Oct. 12	973	260	37	184
Knitting-machines. Landing and cast-off attachment for	R. W. Gormly	346,743	Aug. 3	365	98	36	532
Knitting machines. Movable cam for straight-	F. Wilcomb	350,794	Oct. 12	976	261	37	185
Knitting machines. Needle-cylinder for circular-	G. Davidson and W. W. Clay	352,399	Nov. 9	961	258	37	645
Knitting machines. Needle-cylinder for circular-	T. H. Worrall	348,088	Aug. 24	2293	615	36	913
Knitting-machines. Needle-operating cam for	F. Wilcomb	350,792	Oct. 12	974	261	37	185
Knitting-machines. Stop-motion for	E. H. Brown and F. Lasher	354,387	Dec. 14	1073	288	37	1210
Knitting-machines. Stop-motion for	J. Byfield	342,823	June 1	70	17, 18	35	1019
Knitting-machines. Take-up for	E. H. Godshalk	345,130	July 6	456	118	36	83
Knitting-machines. Tufting attachment for	G. A. Olson	342,126	May 18	1589	424, 425	35	820
Knitting-machines. Yarn-carrier for	J. Stewart	348,503	Aug. 31	2884	775, 776	36	1031
Knitting stockings, &c	W. E. Sheehan	337,706	Mar. 9	1110	286, 287	34	1131
Knob and escutcheon. Door-	O. H. Gilbert	335,349	Feb. 2	371	96	34	508
Knob attachment	W. I. Alvord	347,411	Aug. 17	1305	348	36	722
Knob attachment	W. I. Alvord	347,412	Aug. 17	1306	348	36	722
Knob attachment	W. I. Alvord	347,413	Aug. 17	1307	349	36	722
Knob attachment	J. Bardsley	350,714	Oct. 12	867	233	37	165
Knob attachment	W. R. Briggs	350,576	Oct. 12	671	183	37	129
Knob attachment	J. W. Day	349,483	Sept. 21	1299	337	36	1303
Knob attachment	F. A. Hollenbeck	348,494	Aug. 31	2870	772	36	1028
Knob attachment	H. H. Humphrey	339,102	Mar. 30	3064	811	34	1501
Knob attachment	B. F. Libby	339,440	Apr. 6	467	113	35	87
Knob attachment	A. B. Prouty	346,861	Aug. 3	511	140	36	560
Knob attachment	J. Schade	350,397	Oct. 5	388	112	37	78
Knob attachment	C. E. Steller	349,011	Sept. 14	654	169	36	1171

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Knob attachment	O. Stoddard	334,819	Jan. 26	1860	495	34	367
Knob attachment	G. Van Winkle	349,915	Sept. 28	1890	489	36	1424
Knob attachment	J. B. Wood	352,942	Nov. 23	1682	451	37	797
Knob. Bar	D. M. Ireland	343,815	June 15	1514	381	35	1295
Knob. Door	W. H. Comstock	334,937	Jan. 26	2004	534	34	393
Knob. Door	E. Thistle	337,093	Mar. 2	280	74	34	978
Knob. Door	R. G. Tippett and D. Madlem	346,566	Aug. 3	145	40	36	488
Knob. Door and bell	H. Berghauer	341,442	May 11	658	178	35	634
Knob-lock	A. Hitt	354,472	Dec. 14	1190	319	37	1231
Knob-spindles. Fastening for	C. E. Whittlesey	350,609	Oct. 12	719	195	37	138
Knobs to their spindles. Device for securing door-	C. Longbottom	335,824	Feb. 9	1040	275	34	634
Knockdown chair	J. R. Flanigan and W. E. Harrison	347,339	Aug. 17	1206	322	36	704
Knockdown or folding table	L. T. Strader, H. F. Gray, and I. J. Burgess.	349,185	Sept. 14	889	228	36	1214
Knockdown table	E. F. Beard	344,893	July 6	140	35	36	25
Knockdown table	E. Mets	335,140	Feb. 2	58	16	34	441
Label	G. C. Henning	334,437	Jan. 19	1339	363	34	263
Label	W. Rampe, Jr	334,981	Jan. 26	2066	551	34	403
Label. Cabinet	E. Gabriel	349,790	Sept. 28	1730	446	36	1392
Label. Cigar-box	C. B. Henschel	355,015	Dec. 28	1980	521	37	1395
Label. Shoe-box	S. Goodman	354,896	Dec. 28	1815	480	37	1365
Labels. Machine for drying varnished	C. Rabsskopff	335,771	Feb. 9	969	257, 258	34	621
Labels to packages. Machine for attaching	P. W. Wiley	335,166	Feb. 2	94	25, 26	34	457
Labeling-machine	F. X. Spitznagel	350,899	Oct. 12	1129	300, 301	37	213
Labeling packets. Machine for	J. Tickle and F. Leonardt	346,832	Aug. 3	470	128, 129, 130	36	552
Laboratory-burner	H. Allender and A. T. Henderson	350,796	Oct. 12	990	265	37	187
Lac. Product from	G. S. Wolff	345,203	July 6	554	.....	36	101
Lac. Treating	G. S. Wolff	345,202	July 6	553	.....	36	101
Lace and embroidery stand	M. C. Cohen	352,396	Nov. 9	957	256	37	644
Lace and other fabrics. Machine for clipping	J. Range	353,586	Nov. 30	2616	698, 699	37	980
Lace and ribbon holder. Revolving	F. D. Moore	350,147	Oct. 5	72	21	37	16
Lace, &c. Machine for clipping	J. Range	353,587	Nov. 30	2620	699, 700	37	981
Lace, &c. Machine for clipping	C. H. Willcox	353,615	Nov. 30	2658	711, 712, 713, 714, 715	37	988
Lace-machines, inserting them therein, and threading the carriages. Machine for removing bobbins from carriages of	R. Weiss	354,280	Dec. 14	937	247, 248	37	1183
Lace-pins, &c. Safety-fastening for	C. A. Cooper	353,052	Nov. 23	1850	500	37	827
Laces. Making embroidery	J. Krüsi	337,687	Mar. 9	1082	.....	34	1127
Lacing-bearing	E. R. Spencer	342,940	June 1	240	61	35	1049
Lacing-bearing	J. C. Wilson	343,146	June 1	537	136	35	1104
Lacing-bearing	J. C. Wilson	343,975	June 15	1720	440	35	1335
Lacing-cords. Fastening for	W. H. Blaney	338,470	Mar. 23	2154	563	34	1337
Lacing-fastener	L. W. Wood	353,524	Nov. 30	2525	673	37	963
Lacing-hook	J. Lowe	340,919	Apr. 27	2584	681	35	482
Lacing-hook	S. N. Smith	346,176	July 27	1959	505	36	375
Lacing-hook for shoes	G. H. Davis	344,636	June 29	2645	684	35	1518
Lacing hooks. Machine for making shoe-	J. E. Crisp	342,735	May 25	2479	659	35	989
Lacing-stud	S. Florsheim	345,494	July 13	969	245	36	180
Lacing. Wire	H. and H. C. Heard	352,541	Nov. 16	1133	306	37	685
Ladder	T. W. Hughes	352,922	Nov. 23	1652	444	37	792
Ladder	A. T. Hyde	338,528	Mar. 23	2228	585	34	1350
Ladder	C. H. Jackson	347,608	Aug. 17	1586	421	36	774
Ladder	J. McDonough and W. B. Cox	354,333	Dec. 14	1010	268	37	1197
Ladder	E. S. Seagrave	347,648	Aug. 17	1665	442	36	789
Ladder	L. C. Springer	349,370	Sept. 21	1144	295	36	1272
Ladder	L. K. Warner	337,640	Mar. 9	1030	264	34	1118
Ladder and adjustable platform. Combined step-	S. J. Palmer	337,988	Mar. 16	1498	389	34	1207
Ladder and ironing-board. Combined step-	H. D. Parke	335,714	Feb. 9	883	233	34	605
Ladder and truck therefor. Folding extension	J. E. Gillespie	345,427	July 13	879	219	36	163
Ladder. Carriage fire-	L. Dederick	339,373	Apr. 6	226	57	35	42
Ladder chair. Step-	F. E. Levanseler	353,315	Nov. 30	2220	594	37	906
Ladder chair. Step-	F. E. Levanseler	353,316	Nov. 30	2221	594	37	906
Ladder. Combination-	C. Koerner	353,868	Dec. 7	309	81	37	1063
Ladder. Extension-	M. Brochu and L. Ladrière	351,622	Oct. 26	2208	571	37	422
Ladder. Extension-	R. S. Isard	337,955	Mar. 16	1450	376	34	1200
Ladder. Extension-	J. Potter	354,612	Dec. 21	1415	375	37	1277
Ladder. Extension-	D. E. Rowland and W. T. Black	349,666	Sept. 21	1531	395	36	1350
Ladder. Extension-	J. Royds	333,784	Jan. 5	395	107	34	75
Ladder. Extension-	J. Schmidlapp	345,808	July 20	1454	376	36	274
Ladder. Extension-	E. F. Steck	348,594	Sept. 7	85	25	36	1063
Ladder. Extension-	C. G. Walls	353,722	Dec. 7	105	28	37	1025
Ladder. Extension-	J. C. Winsor	348,257	Aug. 31	2543	683	36	965
Ladder. Extension fire-	J. P. Craig and T. F. Strachan, Jr.	338,717	Mar. 30	2505	663	34	1403
Ladder. Extension fire-	D. D. Hayes	345,686	July 20	1278	331	36	243
Ladder. Extension step-	H. B. Swartz	349,286	Sept. 14	1018	260	36	1240
Ladder. Extension step-	T. L. Vandersloe	349,189	Sept. 14	895	230	36	1216
Ladder. Fire-	J. L. Poinsett	354,839	Dec. 21	1728	457	37	1337
Ladder. Fireman's	F. Stuempfle and H. S. Thomas	347,746	Aug. 17	1795	478	36	812
Ladder. Fireman's extension-	H. Cremar	342,685	May 25	2395	635	35	974
Ladder. Folding	D. P. Sharp	341,284	May 4	437	119	35	585
Ladder. Ornamental step-	A. Dormitzer	336,219	Feb. 16	1636	427	34	744
Ladder. Rope or wire cable	C. J. Heidmeyer	342,204	May 18	1681	448	35	837
Ladder. Sectional	F. W. Gates	336,227	Feb. 16	1645	430	34	745
Ladder. Sectional	J. T. Hartwell	342,900	June 1	187	48	35	1039

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Ladder-step	H. Ayres	335,051	Jan. 26	2169	576	34	421
Ladder. Step	A. E. Geissinger	346,437	July 27	2332	600	36	445
Ladder. Step	J. W. Hunter and C. F. Bassett	336,008	Feb. 9	1296	345	34	679
Ladder. Step	Q. Macuider	355,095	Dec. 28	2099	551	37	1417
Ladder. Step	P. H. Pursel and W. W. Kelchner	351,713	Oct. 26	2325	605	37	446
Ladder. Step	S. Wright	341,535	May 11	788	210	35	659
Ladder. Turn-table extension	L. E. Curtis	336,512	Feb. 16	2038	555	34	816
Ladder. Turn-table truck fire extension	W. F. Hyde	336,519	Feb. 16	2047	537	34	818
Ladders. Platform attachment for	F. J. Slack	352,716	Nov. 16	1381	373	37	732
Lamp	E. B. Bigelow	334,558	Jan. 19	1513	405	34	293
Lamp	E. L. Bryant	340,416	Apr. 20	1884	484	35	351
Lamp	J. O. Colby	338,830	Mar. 30	2670	702, 703	34	1433
Lamp	Z. Davis	354,048	Dec. 7	576	156	37	1110
Lamp	W. Duffield	340,704	Apr. 27	2299	605	35	429
Lamp	W. Duffield	342,826	June 1	75	18, 19	35	1040
Lamp	M. B. and C. G. Dyott	334,698	Jan. 19	1704	454, 455	34	329
Lamp	J. S. Ford	338,728	Mar. 30	2525	667	34	1407
Lamp	L. Henkle	348,969	Sept. 14	589	156	36	1161
Lamp	C. H. Higbee	333,520	Jan. 5	34	9, 10	34	9
Lamp	C. H. Higbee	334,018	Jan. 12	716	196	34	141
Lamp	J. Kirby, Jr.	354,910	Dec. 28	1834	484	37	1368
Lamp	G. W. McGill	348,405	Aug. 31	2742	726	36	1004
Lamp	E. J. McKown	352,252	Nov. 9	770	205	37	607
Lamp	F. Meyrose	355,194	Dec. 28	2236	590	37	1445
Lamp	D. H. Murphy	343,137	June 1	526	133	35	1101
Lamp	E. B. Requa	334,546	Jan. 19	1494	400	34	289
Lamp	E. B. Requa	342,133	May 18	1599	427	35	822
Lamp	F. Rhind	342,463	May 25	2080	549	35	916
Lamp	L. Sepulchre	336,264	Feb. 16	1703	444	34	754
Lamp	A. Stewart	346,829	Aug. 3	461	127	36	550
Lamp	H. Wellington	341,194	May 4	306	87, 88	35	561
Lamp	R. E. Williams and W. A. Traumell	340,965	Apr. 27	2649	698	35	494
Lamp	E. L. Winey	353,905	Dec. 7	369	98	37	1074
Lamp and chandelier. Candle	S. Clarke	352,296	Nov. 9	831	222, 223	37	618
Lamp and connections. Incandescent	J. T. Van Gestel	345,008	July 6	306	77	36	56
Lamp and lantern attachment	J. Swett and G. W. Brace	349,765	Sept. 28	1695	437	36	1385
Lamp. Arc	E. B. Cutten	350,975	Oct. 19	1239	329, 330	37	240
Lamp. Arc	N. McCarty	344,188	June 22	2028	519	35	1397
Lamp. Arc	O. A. Moses	343,188	June 8	604	150	35	1125
Lamp. Argand	E. L. Bryant	338,137	Mar. 16	1699	442	34	1246
Lamp. Automatic carbureting	J. Leede	336,572	Feb. 23	2126	557	34	838
Lamp. Automatic carbureting	J. Leede	336,574	Feb. 23	2128	558	34	838
Lamp-black. Apparatus for manufacturing	J. J. McTighe	346,168	July 27	1949	502	36	373
Lamp-black. Apparatus for manufacturing	J. Wilson	346,973	Aug. 10	676	180	36	598
Lamp. Bracket	A. C. O. Adler	334,631	Jan. 19	1613	429	34	312
Lamp-bracket	J. W. Barney	345,020	July 6	321	81	36	59
Lamp-bracket	H. E. Bemis	342,997	June 1	303	78	35	1002
Lamp-bracket	E. H. Smith	354,261	Dec. 14	910	240	37	1178
Lamp-bracket. Adjustable	J. R. Butler	335,503	Feb. 2	576	150	34	543
Lamp-brackets, &c. Clamp for	H. J. Meunier	353,956	Dec. 7	443	120	37	1087
Lamp-burner	E. Blackman	346,889	Aug. 10	557	150	36	576
Lamp-burner	E. Blackman	346,890	Aug. 10	558	150	36	576
Lamp-burner	J. A. Coultaus	336,297	Feb. 16	1758	459, 460	34	764
Lamp-burner	A. M. Craig	344,081	June 22	1881	483	35	1370
Lamp-burner	A. Geiss	353,674	Dec. 7	30	9	37	1012
Lamp-burner	E. J. Hale	351,374	Oct. 26	1809	475	37	349
Lamp-burner	C. H. Higbee	334,017	Jan. 12	714	196	34	141
Lamp-burner	W. A. Hull	345,233	July 6	596	154	36	108
Lamp-burner	G. Kelly	341,018	May 4	61	17	35	517
Lamp-burner	C. H. Maish	349,110	Sept. 14	794	201	36	1196
Lamp-burner	T. C. Phillips	347,126	Aug. 10	896	239	36	638
Lamp-burner	E. B. Requa	343,545	June 8	1133	286	35	1219
Lamp-burner	H. E. Shaffer	347,132	Aug. 10	905	241	36	640
Lamp-burner	S. W. Spooner	347,973	Aug. 24	2135	569	36	862
Lamp-burner	C. W. Stiff and J. Watrous	354,267	Dec. 14	918	243	37	1180
Lamp-burner	C. E. Tucker	343,972	June 15	1717	439	35	1335
Lamp-burner	T. B. Willson	337,102	Mar. 2	291	77	34	980
Lamp-burner. Argand	M. J. Dooley	334,417	Jan. 19	1311	355	34	257
Lamp-burner holder	G. S. White	346,968	Aug. 10	669	178	36	597
Lamp-burners. Flame regulator and extinguisher for	C. W. Stiff and J. Watrous	354,268	Dec. 14	920	243	37	1180
Lamp. Candle	W. Damerel	335,020	Jan. 26	2120	565	34	413
Lamp. Car	W. H. Briggs	353,661	Dec. 7	11	3	37	1009
Lamp. Car	M. Hicks	352,243	Nov. 9	761	203	37	605
Lamp. Car	W. Westlake	354,455	Dec. 14	1166	312	37	1227
Lamp-case	E. S. Piper	347,639	Aug. 17	1651	438	36	786
Lamp. Center-draft	Z. Davis	342,584	May 25	2249	598	35	947
Lamp-chimney	J. T. Barrow	351,825	Nov. 2	132	36	37	483
Lamp-chimney cleaner	J. H. Nolan	345,169	July 6	510	131	36	93
Lamp-chimney cleaner	A. S. Reisor	336,746	Feb. 23	2367	619	34	882
Lamp-chimney cleaner	W. J. Webb	347,671	Aug. 17	1695	452	36	794
Lamp-chimney cleaner	A. White	341,296	May 4	467	126	35	590
Lamp-chimney fastening	J. S. Foster	350,125	Oct. 5	37	10	37	10
Lamp-chimneys. Heating attachment for	P. Sargent	351,658	Oct. 26	2261	585	37	433
Lamp-chimneys. Spring-holder for	L. Pfingst	347,375	Aug. 17	1258	333	36	713
Lamp. Coal-oil	C. H. Higbee	333,521	Jan. 5	35	10	34	9
Lamp-collar	W. B. Palmer	334,043	Jan. 12	759	208	34	149
Lamp-coupling	W. H. Briggs	343,159	June 8	561	141	35	1117
Lamp-coupling	W. H. Briggs	345,615	July 13	1160	297	36	215
Lamp. Electric	H. R. Boissier	354,530	Dec. 21	1281	342	37	1253

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Lamp. Electric	J. R. Dales and W. H. Markland	344,252	June 22	2113	540	35	1412
Lamp. Electric	T. A. Edison	351,855	Nov. 2	184	50	37	492
Lamp. Electric	A. T. Gifford	351,973	Nov. 2	355	97, 98	37	524
Lamp. Electric	E. and F. W. Heymann	348,971	Sept. 14	591	157	36	1161
Lamp. Electric	E. and F. W. Heymann	348,972	Sept. 14	593	157	36	1162
Lamp. Electric	E. and F. W. Heymann	348,973	Sept. 14	595	157	36	1162
Lamp. Electric	W. S. Hill	351,601	Oct. 26	2183	564	37	418
Lamp. Electric	C. D. Jenney	354,639	Dec. 21	1453	385, 386	37	1284
Lamp. Electric	W. G. Levison	335,368	Feb. 2	397	102	34	513
Lamp. Electric	J. Lyman and M. Wheeler	352,625	Nov. 16	1255	339	37	797
Lamp. Electric	D. B. Macdonald and H. W. Woodman.	339,908	Apr. 13	1164	290	35	214
Lamp. Electric	G. A. Mayo	338,352	Mar. 23	1988	523	34	1307
Lamp. Electric	F. G. Waterhouse	334,317	Jan. 12	1172	314	34	225
Lamp. Electric	L. G. Woolley	340,182	Apr. 20	1556	393	35	290
Lamp. Electric-arc	J. Brady	355,129	Dec. 28	2143	564	37	1427
Lamp. Electric-arc	L. G. Bronson	348,542	Sept. 7	3	1	36	1049
Lamp. Electric-arc	E. B. Cutten	346,430	July 27	2320	597, 598	36	443
Lamp. Electric-arc	J. R. Dales and E. L. Adams	334,353	Jan. 12	1229	330	34	235
Lamp. Electric-arc	C. Doriot	344,642	June 29	2650	685, 686	35	1519
Lamp. Electric-arc	J. M. A. Gérard-Lescuyer	336,635	Feb. 23	2216	578	34	853
Lamp. Electric-arc	V. V. Golitzinsky and P. O. Rymascheffski.	343,811	June 15	1509	380	35	1294
Lamp. Electric-arc	R. F. Jones	355,172	Dec. 28	2207	582, 583	37	1439
Lamp. Electric-arc	O. F. Jönsson	343,242	June 8	682	169	35	1139
Lamp. Electric-arc	F. Klostermann	335,459	Feb. 2	515	135	34	534
Lamp. Electric-arc	G. Pfannkuche	348,927	Sept. 7	529	139, 140	36	1144
Lamp. Electric-arc	O. Romanze. (Reissue)	10,738	June 22	2229	574	35	1434
Lamp. Electric-arc	N. Tesla	335,786	Feb. 9	994	263	34	625
Lamp. Electric-arc	N. Tesla	335,787	Feb. 9	995	263, 264	34	626
Lamp. Electric-arc	J. Tregoning	336,176	Feb. 16	1562	411	34	731
Lamp. Electric-arc	C. J. Van Depoele	336,452	Feb. 16	1965	515	34	808
Lamp. Electric-arc	R. and H. Walther	338,122	Mar. 16	1681	436, 437	34	1242
Lamp. Electric-arc	A. G. Waterhouse	336,184	Feb. 16	1575	414	34	734
Lamp. Electric-arc	A. G. Waterhouse	336,503	Feb. 16	2022	531	34	814
Lamp. Electric-arc	A. G. Waterhouse	345,937	July 20	1629	420	36	305
Lamp. Electric-arc	E. Weston	334,144	Jan. 12	901	247, 248	34	175
Lamp. Electric-arc	J. J. Wood	337,289	Mar. 2	547	144	34	1027
Lamp. Electric incandescent	C. E. Buell	344,343	June 29	2241	577	35	1442
Lamp. Extension	D. W. Parker	336,738	Feb. 23	2357	617	34	880
Lamp-extension device	H. Lang and C. A. Graeter	334,243	Jan. 12	1066	283	34	206
Lamp-extinguisher	J. Philippi	340,457	Apr. 20	1938	498	35	360
Lamp-extinguisher	G. Rayner	343,851	June 15	1560	395	35	1304
Lamp-fixture. Extension	J. A. Evarts	335,997	Feb. 9	1283	340	34	677
Lamp-fixture. Extension	D. W. Parker	339,205	Apr. 6	129	35	35	25
Lamp for electric lighting systems. Night	R. N. Dyer	348,155	Aug. 24	2384	640	36	930
Lamp for electric lighting systems. Night	J. W. Howell	348,125	Aug. 24	2339	628	36	921
Lamp for locomotive head-lights. Electric-arc	G. C. Pyle	346,561	Aug. 3	138	38, 39	36	487
Lamp for magic laterns	T. H. McAllister	339,451	Apr. 6	487	118, 119	35	90
Lamp. Forced-draft	R. Hitchcock	345,900	July 20	1580	408	36	297
Lamp. Fountain	J. S. Ostrander	336,015	Feb. 9	1305	347	34	680
Lamp. Gas	J. W. Baker	334,328	Jan. 12	1190	320	34	229
Lamp. Gas	W. De St. Laurent	350,419	Oct. 5	418	120	37	82
Lamp. Gas	H. G. O'Neill	344,195	June 22	2039	521, 522	35	1399
Lamp. Gas	B. E. Panzig	352,777	Nov. 16	1451	391	37	745
Lamp. Gas	G. E. Slaughter	343,344	June 8	848	214	35	1168
Lamp. Gas	F. H. Wenham	353,650	Nov. 30	2727	737	37	999
Lamp-hanger	C. A. Kinney	336,326	Feb. 16	1789	468	34	771
Lamp-hanger. Adjustable	C. O. Yale	354,962	Dec. 28	1906	503	37	1382
Lamp hanger. Electric	C. C. Haskins	348,845	Sept. 7	407	110	36	1123
Lamp. Hanging	A. P. Buxton	336,035	Feb. 9	1332	353	34	685
Lamp. Head-light	E. Boesch	349,082	Sept. 14	759	191	36	1188
Lamp holder. Electric	F. Schaefer	339,217	Apr. 6	143	38	35	28
Lamp-holder for car and other lamps	F. A. Taber	349,186	Sept. 14	891	229	36	1215
Lamp holder. Incandescent	E. Weston	340,400	Apr. 20	1866	479	35	347
Lamp holder. Incandescent	E. Weston	348,647	Sept. 7	156	43	36	1076
Lamp. Incandescent	A. S. Hickley	354,788	Dec. 21	1663	440	37	1324
Lamp. Incandescent	W. P. Kookogey	351,860	Nov. 2	203	57	37	496
Lamp. Incandescent	E. Weston	340,396	Apr. 20	1862	478	35	347
Lamp. Incandescent electric	C. R. Arnold	339,253	Apr. 6	201	51	35	38
Lamp. Incandescent electric	L. J. Crossley and J. J. Hicks	341,997	May 18	1402	374	35	784
Lamp. Incandescent electric	T. A. Edison	341,644	May 11	936	248	35	688
Lamp. Incandescing electric	T. A. Edison	341,839	May 11	1193	319	35	739
Lamp. Incandescent electric	T. A. Edison	351,856	Nov. 2	185	51	37	493
Lamp. Incandescent electric	T. A. Edison	353,783	Dec. 7	179	49	37	1040
Lamp. Incandescent electric	J. M. A. Gérard-Lescuyer	336,637	Feb. 23	2221	579	34	853
Lamp. Incandescent electric	W. Main	336,729	Feb. 23	2347	614	34	879
Lamp. Incandescent electric	A. L. Reinmann	353,158	Nov. 23	2002	536	37	858
Lamp. Incandescent electric	F. Schaefer	352,006	Nov. 2	403	109	37	533
Lamp. Incandescent electric	F. Schaefer	352,007	Nov. 2	404	110	37	534
Lamp. Incandescing electric	L. Stieringer	341,778	May 11	1113	295	35	723
Lamp. Incandescent electric	E. Thomson	335,158	Feb. 2	82	22	34	455
Lamp. Incandescent electric	E. Thomson	335,160	Feb. 2	88	23, 24	34	456
Lamp. Incandescent electric	C. J. Van Depoele	353,333	Nov. 30	2242	600	37	910

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lamp. Miner's	H. J. Richards	335,041	Jan. 26	2155	573	34	419
Lamp. Miner's safety	A. J. Becker	353,438	Nov. 30	2399	640	37	940
Lamp. Oil	H. Frasch	340,711	Apr. 27	2304	608	35	431
Lamp. Oil	J. Roots	349,262	Sept. 14	993	253	36	1235
Lamp post. Electric	H. M. Doubleday and J. Lyman	350,046	Sept. 28	2064	533	36	1457
Lamp protector. Electric-arc	G. Jeffery	349,999	Sept. 28	2010	519	36	1446
Lamp. Railway signal	W. H. Hunt	354,142	Dec. 14	725	194, 195	37	1146
Lamp. Regenerative gas	C. M. Lungren	347,622	Aug. 17	1607	426	36	778
Lamp. Regenerative gas	C. M. Lungren	350,438	Oct. 5	459	129, 130	37	88
Lamp. Regenerative gas	H. E. Scotchmer and J. Young	343,142	June 1	531	135	35	1103
Lamp regulator. Arc	J. A. Jenney	334,023	Jan. 12	728	198, 199	34	144
Lamp-reservoir	W. P. Butler	337,302	Mar. 2	569	150	34	1031
Lamp. Retort gas	G. H. Gregory	343,708	June 15	1373	342	35	1269
Lamp. Rotary	C. H. Loper	346,758	Aug. 3	379	105	36	535
Lamp. Self-regulating	V. Di Marzo	339,911	Apr. 13	1168	291	35	215
Lamp-shade	H. S. Myers	348,232	Aug. 31	2512	675	36	958
Lamp shade and bowl	F. S. Shirley and A. Steffin	345,182	July 6	526	135	36	96
Lamp shade. Electric	P. H. Klein, Jr	337,336	Mar. 2	611	160	34	1039
Lamp-shade holder	H. Hohenstein	342,012	May 18	1422	380	35	788
Lamp-shade holder	F. A. Stearns	339,708	Apr. 13	903	222	35	165
Lamp-shade ornament	G. L. Cooper	353,480	Nov. 30	2461	657	37	951
Lamp-shade ornament	J. D. Griswold	344,959	July 6	220	56	36	40
Lamp-shade ornament	W. A. Hull	345,234	July 6	598	152	36	108
Lamp-shade ornament	W. A. Hull	350,058	Sept. 28	2092	541	36	1462
Lamp-shade ornament	W. A. Hull	351,700	Oct. 26	2313	601	37	443
Lamp-shade support	S. S. Woodward	334,502	Jan. 19	1434	385	34	279
Lamp-shade support	S. S. Woodward	347,456	Aug. 17	1376	366	36	734
Lamp-shades, &c. Forming-block for making	P. F. Mahoney and J. B. Louvet	334,126	Jan. 12	877	240	34	170
Lamp-shades. Manufacture of	P. Brady	352,641	Nov. 16	1274	343	37	710
Lamp. Spring-balance	E. H. Wheeler	343,093	June 1	454	115, 116	35	1089
Lamp. Stand	N. Jenkins	349,501	Sept. 21	1326	344	36	1308
Lamp. Street	W. P. Butler	338,658	Mar. 23	2404	633	34	1380
Lamp. Street	J. Eagan	347,478	Aug. 17	1405	374	36	740
Lamp. Street	A. F. B. Hennig	339,884	Apr. 13	1136	282	35	209
Lamp-support	H. T. Keith	348,746	Sept. 7	287	77	36	1101
Lamp support. Adjustable bracket	E. L. Smith	342,650	May 25	2346	619	35	964
Lamp support. Electric	G. J. Hammerstein	344,652	June 29	2664	691	35	1522
Lamp. Suspension	W. R. Noé	348,291	Aug. 31	2587	695, 696	36	974
Lamp. Switch	T. B. Osborne	335,951	Feb. 9	1221	325	34	666
Lamp switch. Electric	F. Schaefer	339,218	Apr. 6	144	38	35	28
Lamp trimming and extinguishing apparatus	F. H. Marker	349,599	Sept. 21	1452	374	36	1333
Lamps and other articles. Suspension device for	E. N. Griswold	350,429	Oct. 5	440	126	37	86
Lamps and other articles. Suspension device for	J. D. Griswold	350,673	Oct. 12	813	221	37	155
Lamps and other articles. Suspension device for	C. H. Lyman	354,514	Dec. 14	1253	335	37	1242
Lamps. Automatic cut-out for electric	E. Thomson and E. W. Rice, Jr	338,208	Mar. 16	1790	467	34	1264
Lamps. Carbon for incandescent	C. J. Van Depoele	337,899	Mar. 16	1367	354	34	1185
Lamps. Carbon-holder for arc	S. H. Stupakoff	340,065	Apr. 13	1379	347	35	252
Lamps. Carbon-holder for arc	D. Williamson	347,218	Aug. 10	1027	274	36	662
Lamps. Carbon-holder for electric-arc	P. O. Keilholtz	349,978	Sept. 14	603	159	36	1164
Lamps. Circuit-controlling key for incandescent electric	A. G. Brown	346,020	July 20	1751	451	36	327
Lamps. Clutch for electric	C. B. Noble	346,217	July 27	2018	521	36	387
Lamps. Cut-out apparatus for electric	E. Thomson	350,955	Oct. 19	1201	320	37	233
Lamps. Cut-out for electric	L. G. Woolley	350,519	Oct. 12	589	163	37	114
Lamps. Cut-out for electric-arc	W. C. Walter	354,843	Dec. 21	1736	460	37	1339
Lamps. Cut-out for incandescent	H. Lemp and M. J. Wightman	352,621	Nov. 16	1248	337	37	706
Lamps. Cut-out instrument for incandescent	F. P. Little and W. H. McDonald	340,448	Apr. 20	1926	495	35	358
Lamps. Friction-pulley for	A. Taplin	335,654	Feb. 9	795	211	34	590
Lamps. Fusible cut-out for incandescent electric	C. G. Perkins	348,049	Aug. 24	2227	596	36	900
Lamps. Hanger for extension	G. E. Sovereign	349,909	Sept. 28	1884	487	36	1423
Lamps. Heating attachment for	S. H. Dibble	337,135	Mar. 2	340	88	34	988
Lamps. Holder for incandescent	E. Thomson and E. W. Rice, Jr	344,692	June 29	2710	704	35	1530
Lamps. Holder for incandescent electric	L. Heinze	343,313	June 8	785	196	35	1158
Lamps. Holder for incandescent electric	L. G. Woolley	341,620	May 11	905	241	35	682
Lamps. Machine for making carbons for electric	A. Pfannkuche	345,539	July 13	1058	269	36	196
Lamps. Manufacture of incandescent electric	O. A. Moses	335,831	Feb. 9	1048	277	34	635
Lamps. Regulator for electric-arc	H. Henneberg and R. O. Lorenz	353,305	Nov. 30	2206	590, 591	37	904
Lamps. Reversible switch for incandescent	R. R. Moffatt	333,657	Jan. 5	208	57	34	40
Lamps. Safety-valve attachment for	E. W. Ingle	341,483	May 11	712	191	35	644
Lamps. Screen-holder for	T. C. Booth and H. Embury	351,157	Oct. 19	1511	395	37	289
Lamps. Shade-ring for hanging	C. A. Kinney	341,061	May 11	964	255	35	693
Lamps. Socket for incandescent	E. Thomson	345,335	July 13	743	188	36	140
Lamps. Street-support for electric	J. J. Renehan	347,830	Aug. 24	1925	511	36	845
Lamps, &c. Suspending device for	C. H. Lyman	350,495	Oct. 12	557	155	37	109
Lamps. Suspending device for electric	P. Krautz	340,512	Apr. 20	2026	519	35	377
Lamps, &c. Suspension device for	E. Blackman	340,969	Apr. 27	2653	699	35	495
Lamps, &c. Suspension device for	R. L. Brewer	335,107	Feb. 2	8	3	34	445
Lamps. Suspension device for	J. D. Griswold	346,098	July 27	1847	477	36	354
Lamps. Suspension device for	N. Jenkins	347,613	Aug. 17	1592	422	36	776
Lamps. Suspension device for	R. B. Perkins	342,132	May 18	1597	425, 427	35	821
Lamps. Switch and holder for incandescent	M. J. Wightman	336,191	Feb. 16	1585	416	34	736
Lamps. Switch-socket for incandescent	M. J. Wightman and H. Lemp	348,875	Sept. 7	451	120	36	1131
Lamps. Testing incandescent electric	E. Weston	334,147	Jan. 12	908	249	34	177
Lamps. Thermostatic cut-out for incandescent	H. Lemp and M. J. Wightman	352,622	Nov. 16	1249	338	37	706
Lance. Bomb	E. Pierce	345,803	July 20	1447	375	36	273
Lance. Bomb	A. Schneider	333,552	Jan. 5	72	21	34	16
Land-anchor	C. C. Pratt	354,342	Dec. 14	1026	273	37	1201

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Land-channeling roller	R. H. Banks	334,213	Jan. 12	1025	273	34	198
Land mark for indicating boundaries or divisions	H. C. Daniels	343,365	June 8	885	223	35	1175
Land-roller	G. L. Calkins	334,744	Jan. 26	1767	471	34	348
Land-roller	J. F. Donovan	346,370	July 27	2095	539	36	401
Land-roller	S. J. Fisher	340,437	Apr. 20	1907	490	35	355
Land-roller	J. Hafner	337,577	Mar. 9	954	244	34	1104
Land-roller	C. Helm and J. Nickenich	337,264	Mar. 2	510	133, 134	34	1020
Land-roller	J. Horey and C. Marsh	353,679	Dec. 7	41	11	37	1014
Land-roller	E. W. Knowles	335,077	Jan. 26	2204	586	34	427
Land-roller	J. Mott	344,591	June 29	2583	668	35	1506
Land-roller	F. H. Norton	353,267	Nov. 23	2149	575	37	887
Land-roller	W. B. Parsons	352,710	Nov. 16	1376	372	37	730
Land-roller and clod-crusher. Combined	F. Twick	339,601	Apr. 6	740	182	35	130
Land-roller and seed-sower	G. R Thomson and J. B. Johnson	342,053	May 18	1481	396, 397	35	799
Land-roller and seeder. Combined	A. Corbin, Jr.	350,914	Oct. 19	1150	306	37	224
Land-roller and stalk-cutter	R Horton	348,284	Aug. 31	2579	693	36	972
Lantern	C. Bergener	354,090	Dec. 14	636	173	37	1131
Lantern	G. C. Dressel	354,629	Dec. 21	1440	382	37	1281
Lantern	L. E. Johnson	338,077	Mar. 16	1609	419	34	1228
Lantern	F. Kuntz	343,461	June 8	1027	256	35	1200
Lantern	C. E. Meier	343,048	June 1	387	98	35	1077
Lantern	F. Meyrose	353,573	Nov. 30	2596	693	37	977
Lantern	B. Scarles	336,596	Feb. 23	2157	564	34	843
Lantern	E. F. Steck	349,618	Sept. 21	1476	381	36	1338
Lantern	R. B. Wood	355,240	Dec. 28	2309	608	37	1460
Lantern and flag-holder. Signal-	W. H. Briggs and G. M. Clark	340,090	Apr. 20	1420	359	35	265
Lantern attachment	E. H. Hadley	339,167	Apr. 6	68	20	35	15
Lantern. Dark-	W. Benner	339,846	Apr. 13	1085	270	35	199
Lantern for use on railways and steam and sailing vessels. Automatic signal-	F. Watson	349,828	Sept. 28	1785	461	36	1403
Lantern-frame	F. Kaczerowski	354,151	Dec. 14	746	200	37	1149
Lantern-frames. Manufacture of tubular parts of	L. F. Betts	340,274	Apr. 20	1692	431, 432	35	314
Lantern-globe	C. J. Higgins	349,219	Sept. 14	932	239	36	1223
Lantern-globe-support	F. Dietz	346,095	July 27	1845	476	36	354
Lantern-globe support	F. Dietz	354,970	Dec. 28	1915	506	37	1384
Lantern-globes, &c. Manufacture of	J. F. Miller	337,692	Mar. 9	1091	282	34	1128
Lantern-holder	E. C. Geneux	344,649	June 29	2660	690	35	1521
Lantern. Magic	C. Gray and H. Kemp	346,994	Aug. 10	698	185	36	602
Lantern. Magic	F. E. Ives	338,074	Mar. 16	1606	418	34	1227
Lantern. Signal-	C. H. Angle	350,029	Sept. 28	2049	528	36	1453
Lantern. Signal-	W. W. Clark	352,040	Nov. 2	449	122	37	543
Lantern. Signal-	F. P. Copper and A. Bair	345,575	July 13	1109	284	36	205
Lantern. Signal-	N. M. Crawford	346,897	Aug. 10	574	153, 154	36	579
Lantern. Signal-	G. C. Dressel	348,623	Sept. 7	126	35	36	1070
Lantern. Signal-	R. D. Morgan and C. B. Mann	341,762	May 11	1094	290	35	719
Lantern. Signal-	G. Wells	338,574	Mar. 23	2288	600	34	1359
Lantern-tube	J. W. Orphy	335,235	Feb. 2	216	56	34	478
Lantern. Tubular	A. L. Baron and W. T. Rufer	345,100	July 6	418	107	36	76
Lantern. Tubular	J. H. Stone	349,768	Sept. 28	1692	437	36	1384
Lantern. Tubular	W. C. Winfield	353,343	Nov. 30	2254	603	37	912
Lanterns. Device for supporting	F. Chvala	339,148	Apr. 6	45	15	35	12
Lanterns. Making side tubes for	J. W. Orphy	335,234	Feb. 2	215	55, 56	34	478
Lanterns. Reflector and attachment for	L. F. Betts	343,792	June 15	1485	373	35	1290
Lap-robe and splatter-dasher	J. J. Williamson	346,006	July 20	1729	445, 446	36	323
Laryngoscope	J. Boekel	343,696	June 15	1354	336	35	1265
Laryngoscope. Electric	H. B. Bayles	341,873	May 18	1247	334	35	756
Lash-loop fastening	E. N. Parker	351,522	Oct. 26	2058	534	37	396
Last	R. L. Campbell	337,131	Mar. 2	336	87	34	988
Last	R. S. Ellison	346,273	July 27	2098	540	36	402
Last	H. L. Scofield	352,893	Nov. 16	1609	433	37	775
Last	G. M. Wells	344,229	June 22	2065	533	35	1407
Last and support for the same	E. C. Wright	340,690	Apr. 27	2281	601	35	426
Last-block fastening	E. S. Hay	341,478	May 11	708	190	35	643
Last-supporting jack	H. Stockman	340,062	Apr. 13	1374	345, 346	35	251
Last-supporting jack	H. Stockman	340,063	Apr. 13	1376	346	35	252
Lasting apparatus. Shank-	F. B. Beyerle	343,360	June 8	874	220	35	1173
Lasting-machine	F. Chase	340,860	Apr. 27	2506	660	35	468
Lasting-machine	W. C. Cross	344,725	June 29	2751	713	35	1537
Lasting-machine	F. Dombrowski and J. Woltmann	337,752	Mar. 9	1164	302, 303, 529	34	1141
Lasting-machine	J. H. Laskey	353,145	Nov. 23	1981	530, 531	37	854
Lasting. Machine for preparing vamps for	M. Brock	352,851	Nov. 16	1550	418, 419	37	763
Lasting-tool	W. C. Cross	333,605	Jan. 5	143	39	34	29
Latch	W. R. Briggs	348,656	Sept. 7	172	46, 47	36	1078
Latch	C. W. Bullard	352,515	Nov. 16	1102	298	37	680
Latch	W. W. Dey	352,679	Nov. 16	1332	359	37	721
Latch	F. Keil	340,323	Apr. 20	1764	451	35	328
Latch	J. H. Grant, H. C. Goodspeed, and T. M. Foote	353,025	Nov. 23	1798	483	37	818
Latch	D. M. Murray	348,925	Sept. 7	527	139	36	1144
Latch	D. H. Sherman	340,628	Apr. 27	2190	576	35	412
Latch	W. H. Taylor	343,348	June 8	857	216	35	1170
Latch and lock. Combined	W. H. Acker	349,195	Sept. 14	902	232	36	1217
Latch and lock. Combined	J. C. Craig	338,141	Mar. 16	1704	443, 444	34	1247

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Latch and lock. Combined	G. A. Davies	343,693	June 15	1611	410	35	1315
Latch and lock. Combined	F. T. Davis	349,571	Sept. 21	1418	367	36	1326
Latch and lock. Combined	S. F. Estell	335,064	Jan. 26	2186	581	34	424
Latch and lock. Combined	E. R. Ferry	347,100	Aug. 10	867	229	36	632
Latch and lock. Combined	J. B. Hutson	343,376	June 8	904	227	35	1179
Latch and lock. Combined	A. A. Kellogg	343,459	June 8	1026	255	35	1200
Latch and lock. Combined	O. L. Meisler	334,887	Jan. 26	1942	517	34	381
Latch and lock. Combined	F. N. Perkins	353,374	Nov. 30	2300	614	37	921
Latch and lock. Combined	G. H. Van Winkle	339,245	Apr. 6	190	49	35	36
Latch. Coach-	W. Schollhorn	346,318	July 27	2165	556	36	414
Latch. Cupboard-	F. W. Mix and A. Arens	333,656	Jan. 5	207	56	34	40
Latch. Door-	T. C. H. Bayrhoffer	336,374	Feb. 16	1856	486	34	784
Latch. Door-	J. K. Clark	344,722	June 29	2748	712	35	1536
Latch. Door-	J. A. Hollenberger	336,810	Feb. 23	2453	643	34	898
Latch. Door-	E. S. Winchester	345,016	July 13	315	79	36	58
Latch for doors, windows, &c	C. R. Blathwayt	335,175	Feb. 2	128	32	34	463
Latch for scuttles, &c. Spring-	I. N. Rogers	333,674	Jan. 5	236	64	34	46
Latch. Gate-	J. Duls	344,952	July 6	212	54	36	39
Latch. Gate-	H. Harrington	336,714	Feb. 23	2324	609	34	874
Latch. Gate-	G. B. Hovland	348,909	Sept. 7	503	133	36	1140
Latch. Gate-	A. E. Jester	349,350	Sept. 21	1096	280	36	1364
Latch. Gate-	L. S. Stoll	339,594	Apr. 6	732	180	35	128
Latch. Gate-	C. P. Weaver	349,469	Sept. 21	1282	333	36	1299
Latch. Gravity-	U. D. Mihills	350,264	Oct. 5	223	65	37	47
Latch. Knob-	E. Knight	340,048	Apr. 13	1361	341	35	249
Latch. Knob-	M. C. Niles	352,562	Nov. 16	1164	313, 314	37	691
Latch. Night-	J. H. Barnes and J. H. Woolaston	337,115	Mar. 2	310	81	34	983
Latch. Night-	J. H. Barnes and J. H. Woolaston	346,704	Aug. 3	319	88	36	523
Latch. Night-	W. R. Briggs	348,657	Sept. 7	173	47	36	1678
Latch-operating device	O. H. Gilbert	335,914	Feb. 9	1177	313	34	658
Latch-operating device	O. H. Gilbert	345,297	July 13	694	175	36	131
Latch. Reversible	F. J. Biggs	346,349	July 27	2200	564	36	421
Latch. Reversible	J. Hill	341,805	May 11	1145	304	35	729
Latch. Reversible	C. H. Montgomery	350,691	Oct. 12	839	226	37	159
Latch. Reversible	W. E. Sparks	334,815	Jan. 26	1856	494	34	366
Latch. Sliding-door	J. T. Gordon and J. H. Hamilton	336,638	Feb. 23	2221	579	34	854
Latch. Sliding-door	J. T. Gordon and J. H. Hamilton	345,048	July 6	352	89	36	64
Lath. Sheathing-	W. M. Dwight	338,220	Mar. 16	1809	472	34	1267
Lath strip	C. P. Jacobs	350,488	Oct. 12	548	152	37	108
Lathing	H. H. Fulton	336,517	Feb. 16	2045	537	34	817
Lathing	C. E. Merrifield	334,603	Jan. 19	1569	419	34	305
Lathing	L. S. Scott	340,253	Apr. 20	1666	423	35	309
Lathing and foundation therefor. Metallic	J. W. Kensett	352,826	Nov. 16	1518	409	37	757
Lathing. Metallic	L. W. Newton	344,592	June 29	2584	669	35	1506
Lathing. Metallic	B. Scarles	344,408	June 29	2334	601	35	1460
Lathing. Metallic	B. Scarles	346,317	July 27	2163	555	36	414
Lathing. Metallic	B. Scarles	349,059	Sept. 14	721	184	36	1183
Lathing. Metallic	B. Scarles	351,205	Oct. 19	1577	413	37	302
Lathing-sheets. Machine for slitting metallic	E. Tunstead and J. W. Moore	352,636	Nov. 16	1268	342	37	709
Lathing to iron frames of buildings. Fastening wire	R. T. Brown. (Reissue)	10,684	Feb. 9	1395	369	34	697
Lathe	A. Gordon	340,207	Apr. 20	1593	403	35	297
Lathe	W. W. Hubbard	344,580	June 29	2565	664	35	1503
Lathe	J. Judson	346,161	July 27	1944	501	36	372
Lathe attachment	W. Middleditch	335,609	Feb. 9	733	195	34	579
Lathe. Automatic	F. M. Stevens	337,530	Mar. 9	897	229	34	1093
Lathe. Automatic	F. M. Stevens	344,926	July 6	181	46	36	33
Lathe. Car-wheel and axle	K. Rasmussen	353,814	Dec. 7	229	61, 62	37	1048
Lathe-center	W. H. Fairless	333,619	Jan. 5	159	43	34	32
Lathe for irregular forms	W. H. Hawley	347,036	Aug. 10	765	203, 204	36	614
Lathe for the manufacture of artificial limbs	J. E. Hanger	339,879	Apr. 13	1128	281	35	207
Lathe for turning crank-axles. Attachment for	W. Beers	342,895	June 1	168	43	35	1036
Lathe for turning irregular forms	O. Kromer	336,813	Feb. 23	2457	644, 645	34	899
Lathe for turning journals of car-axles	H. J. Small	349,908	Sept. 28	1883	487	36	1423
Lathe for turning lasts and other articles	S. J. De Lue	339,274	Apr. 6	230	57	35	42
Lathe for turning shafting	W. J. Muncaster	334,538	Jan. 19	1481	397, 398	34	287
Lathe for turning spherical surfaces	N. Hunt	338,749	Mar. 30	2556	675	34	1412
Lathe for turning spirals	V. Merklen. (Reissue)	10,763	Sept. 21	1559	400	36	1354
Lathe for turning spirals	G. Wood	352,901	Nov. 16	1618	435	37	777
Lathe-head	F. H. Richards	354,737	Dec. 21	1592	421, 422	37	1310
Lathe. Metal-turning	J. R. Back	341,207	May 4	322	91	35	564
Lathe. Metal-turning	A. M. Powell	351,711	Oct. 26	2323	604	37	445
Lathe-rest	P. O'Neil	338,291	Mar. 23	1900	500	34	1292
Lathe-tool	C. A. Eklund and J. F. Westin	337,673	Mar. 9	1068	275	34	1125
Lathe. Tubular cutter-	R. G. Burleigh	342,822	June 1	67	16, 17	35	1018
Lathe. Turning-	S. W. Goodwin	353,302	Nov. 30	2202	589	37	903
Lathe. Turning-	W. A. Rogers	354,740	Dec. 21	1600	424	37	1312
Lathe. Watch-maker's	J. Hunter	354,601	Dec. 21	1391	368	37	1273
Lathe. Wood-turning	C. W. Wilder	345,466	July 13	930	234, 235	36	173
Lathes. Beading attachment for	N. A. Dickinson	343,443	June 8	999	249	35	1195
Lathes. Driving-dog for turning-	K. Rasmussen	353,815	Dec. 7	231	62	37	1049
Lathes. Polishing attachment for	C. A. Artman	348,146	Aug. 24	2306	634	36	926
Lathes. Steady-rest for	J. Seibert	346,324	July 27	2173	557	36	416
Lathes. Tool for turrets of turret-	G. S. Adams	352,795	Nov. 16	1481	399, 400	37	751
Lathes. Work-support for	E. Zimmermann	340,535	Apr. 20	2054	528	35	382
Laundering-machine	R. H. Cornett	351,626	Oct. 26	2218	573	37	424
Laundering purposes. Apparatus for use in	I. Holzmark	343,636	June 15	1265	318, 319	35	1250

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Laundry dressing	E. A. A. Hovey and E. C. Phillips	349,648	Sept. 21	1507	.....	36	1345
Laundry-drier	O. M. Shannon	336,758	Feb. 23	2383	624	34	885
Laundry fork or washer	A. B. Lawrence	336,122	Feb. 16	1470	387	34	717
Lawn-cleaner	W. H. Mack	336,728	Feb. 23	2346	614	34	578
Lawn-edge trimmer	T. and W. H. Coldwell	340,420	Apr. 20	1888	485	35	352
Lawn-sprinkler	J. Lawson	347,359	Aug. 17	1234	329	36	708
Lawn-tennis-net pole	E. G. Booth	353,050	Nov. 23	1848	499	37	826
Lawn-tennis net support	J. H. Lee	337,591	Mar. 9	972	249	34	1107
Lead and crayon holder	G. R. Sandell	340,925	Apr. 27	2592	683	35	483
Lead. Apparatus for cooling white	D. Ravekes	335,773	Feb. 9	975	258	34	622
Lead cooler. White	F. Eckstein, Jr	340,772	Apr. 27	2390	630	35	447
Lead-coroding pot	P. H. Decker	347,997	Aug. 24	2162	575	36	887
Lead. Manufacturing white	W. E. Harris	352,316	Nov. 9	860	.....	37	624
Lead or crayon holder	J. Appleby	338,332	Mar. 23	1959	516	34	1302
Lead or crayon holder	C. W. Boman	338,820	Mar. 30	2652	699	34	1430
Lead or crayon holder	F. J. W. Fischer	336,044	Feb. 9	1348	357	34	688
Lead or crayon holder	J. Pusey	338,611	Mar. 23	2337	611	34	1368
Lead pipe	E. Haas	347,594	Aug. 17	1569	416	36	771
Lead-press	W. A. Shaw	338,561	Mar. 23	2273	596	34	1357
Lead-press. Hydraulic	J. Robertson	346,563	Aug. 3	142	39	36	488
Lead-presses. Die for	J. Hooper	347,607	Aug. 17	1585	421	36	774
Leaf-retaining clasp	L. A. Subers	340,638	Apr. 27	2206	{580 581}	35	415
Leaf-turner	A. Richards, Sr	344,861	July 6	94	24	36	17
Lease-comb	T. C. Entwistle	344,093	June 22	1896	486	35	1373
Leather and other material. Apparatus for clamping and stretching	J. M. Keene	345,699	July 20	1293	335	36	246
Leather articles. Manufacture of	H. B. Hooker	352,752	Nov. 16	1421	384	37	740
Leather. Composition for preserving	E. P. Coffee	346,581	Aug. 3	166	.....	36	492
Leather-cutting die	H. Loeser	346,929	Aug. 10	620	166	36	588
Leather-dressing machine	J. T. Freeman	340,713	Apr. 27	2311	{608 609}	35	431
Leather-finishing machine	A. M. Bowers	339,134	Apr. 6	22	7	35	6
Leather-finishing machine	A. M. Bowers	354,178	Dec. 14	782	206	37	1156
Leather loop-fastenings. Manufacture of	E. Felsberg	355,068	Dec. 28	2055	540	37	1409
Leather. Machine for cutting	G. W. Gross	346,651	Aug. 3	256	70	36	510
Leather-matching machine	C. S. Fifield	342,193	May 18	1667	445	35	834
Leather or leather-cloth. Manufacture of artificial	W. V. Wilson and J. Storey	352,726	Nov. 16	1393	.....	37	734
Leather-rolling apparatus	G. Middlemas	333,773	Jan. 5	379	103	34	72
Leather-rolling machine	C. S. Ames	342,946	June 1	247	63	35	1051
Leather-rolling machine	T. W. McKee	352,955	Nov. 23	1697	456	37	799
Leather-skiving machine	J. D. Humphrey	334,119	Jan. 12	870	238	34	169
Leather-skiving machine	E. A. Latham	350,753	Oct. 12	917	{246 247}	37	174
Leather splitting and skiving machine	H. G. Foss	343,238	June 8	675	168	35	1138
Leather-splitting machine	A. E. Dodge	337,820	Mar. 16	1264	{327 328}	34	1166
Leather-splitting machine	A. F. Stowe	346,389	July 27	2262	579	36	432
Leather-splitting machine	A. F. Stowe	353,235	Nov. 23	2102	563	37	878
Leather-splitting machine	G. L. Tyler	345,007	July 6	305	76, 77	36	56
Leather-splitting machine	A. G. Webster	347,402	Aug. 17	1294	345	36	720
Leather-splitting machine knife	C. E. Roberts	344,404	June 29	2327	600	35	1459
Leather-splitting machine. Scrap	J. A. Josselyn	339,990	Apr. 13	1282	320	35	235
Leather-splitting machines. Knife for	G. L. Tyler	342,983	June 1	288	75	35	1059
Leather-stretching machine	A. C. Krueger	335,595	Feb. 9	715	190	34	576
Leather-stuffing	J. A. J. Shultz	337,287	Mar. 2	545	.....	34	1027
Leather thongs for the manufacture of fly-nets. Treating	J. W. Ringrose	343,202	June 8	618	154	35	1128
Leather. Uniting pieces of	P. J. Fitzgerald	352,404	Nov. 9	968	259	37	647
Leather water-proof. Making	J. A. Dietz	334,518	Jan. 19	1457	.....	34	283
Leather while being scalloped. Apparatus for holding	A. Schmiedl	352,359	Nov. 9	912	244	37	635
Leather-working machines. Frame for	J. T. Freeman	340,712	Apr. 27	2311	608	35	431
Leather-working machines. Roll for	J. W. Vaughn	344,069	June 22	1863	478	35	1367
Leg. Artificial	D. W. Bartlett	344,154	June 22	1977	506	35	1387
Leg. Artificial	R. C. Dunham	336,904	Mar. 2	32	8	34	933
Leg. Artificial	C. A. Frees	335,748	Feb. 9	934	246	34	615
Legs. Cord attachment for artificial	G. Moore	353,369	Nov. 30	2294	612	37	949
Leggin. Swimming	J. Lundgren	349,256	Sept. 14	986	251	36	1233
Lemon-drill	W. F. Moulton	344,672	June 29	2686	697	35	1526
Lemon holder and squeezer	E. G. Day	335,343	Feb. 2	363	94	34	506
Lemon-squeezer	S. S. Badger	334,212	Jan. 12	1024	272	34	198
Lemon-squeezer	T. Curley	336,298	Feb. 16	1759	460	34	764
Lemon-squeezer	R. Onderdonk	354,022	Dec. 7	541	147	37	1405
Lemon-squeezer	J. J. Sturla	336,672	Feb. 23	2278	595	34	865
Lemon-squeezer	G. R. Wilson, Jr	340,025	Apr. 13	1329	332	35	243
Lemonade. Device for beating and mixing egg	W. F. Towns	347,398	Aug. 17	1288	343	36	718
Lens. Signal	G. A. Macbeth	351,609	Oct. 26	2192	506	37	419
Lens-tester	G. Johnston	337,333	Mar. 2	607	159	34	1038
Lenses. Apparatus for measuring focal lengths of	A. Wagner	342,149	May 18	1615	433	35	825
Letter and index holder	W. H. Davis	337,671	Mar. 9	1065	275	34	1124
Letter-box	A. S. Cook	350,041	Sept. 28	2059	532	36	1456
Letter-box	J. McLane	344,489	June 29	2442	628	35	1479
Letter-box and collecting-pouch	G. Jovine	336,052	Feb. 9	1359	{359 360}	34	690
Letter-box and door-bell. Combined	J. B. Broome	350,410	Oct. 5	402	115	37	80
Letter-box connection	J. G. Cutler	336,038	Feb. 9	1335	354	34	686
Letter boxes. Indicator for drop	M. R. Jones	353,139	Nov. 23	1973	527	37	852
Letter-boxes. Metallic time-card for	B. M. Reed	354,439	Dec. 14	1143	305	37	1222
Letter-clip and calendar. Combined	M. H. Kerner	339,429	Apr. 6	451	110	35	84
Letter-copying machine	J. F. Lash	354,794	Dec. 21	1670	442	37	1326
Letter for signs. Transferable	N. S. Stowell	339,232	Apr. 6	164	43	35	32
Letter-opener	G. C. Holt	337,680	Mar. 9	1074	277	34	1126
Letter-press	A. Veilleux and W. Benington	347,536	Aug. 17	1485	394	36	755

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Letter-sheet and envelope. Combined	T. O. L. Schrader	346,620	Aug. 3	217	59	36	502
Letters, blanks, and other papers. Device for holding and filing	A. L. Colton	339,859	Apr. 13	1100	274	35	202
Letters to composition surfaces. Attaching composition	J. H. La Bau	334,786	Jan. 26	1818	484	34	359
Levees, dams, &c. Protection frame-work for	J. Kernaghan	352,544	Nov. 16	1137	307	37	686
Level. Ditching	E. Reichenbach	341,690	May 11	1010	267	35	703
Level for boring-bits. Spirit	W. E. Gwyer	341,378	May 4	571	158	35	608
Level for boring-bits. Spirit	W. E. Gwyer	341,379	May 4	571	158	35	608
Level. Grading	C. Willgauss	334,149	Jan. 12	910	249	34	177
Level. Plumb	M. S. Weller	340,841	Apr. 27	2482	654	35	464
Level, plumb, and angle-gage	W. R. St. Clair	352,276	Nov. 9	806	216	37	614
Level. Spirit	G. Blythe	339,369	Apr. 6	368	89	35	68
Level. Spirit	G. Cook	353,846	Dec. 7	275	73	37	1057
Level. Spirit	S. Reid and J. C. Thayer	334,052	Jan. 12	772	211	34	151
Level. Spirit	L. A. Sanford	337,621	Mar. 9	1005	258	34	1114
Level. Spirit	E. E. Webb	354,076	Dec. 7	613	168, 169	37	1118
Level. Telescopic hand	W. Gurley	353,406	Nov. 30	2354	628	37	931
Leveling-instrument	C. G. Smith	338,791	Mar. 30	2613	688	34	1422
Lever and fulcrum	N. White	336,189	Feb. 16	1581	415	34	735
Lever-button	E. B. Crocker	352,452	Nov. 9	1026	277	37	658
Levers. Lock for reverse and throttle	C. May	348,681	Sept. 7	208	55	36	1085
Leverage. Device for gaining	P. Harrod	334,771	Jan. 26	1802	479	34	356
Library-record system. Sunday-school	D. W. Nevin	354,651	Dec. 21	1469	390	37	1287
Lids, covers, &c. Fastener for	L. G. Kregel	343,245	June 8	687	170	35	1140
Life-boat	D. P. Dobbins	352,525	Nov. 16	1114	302	37	682
Life-boat	C. R. Herrick and D. W. Billings	349,499	Sept. 21	1322	343	36	1307
Life-boat	A. L. Shears	348,424	Aug. 31	2771	744	36	1010
Life-boat. Expansible	J. Fischer	348,158	Aug. 24	2390	641	36	930
Life-preserver	J. S. Badia	335,173	Feb. 2	118	30, 31	34	462
Life-preserver	W. C. Macdonald	335,599	Feb. 9	720	192	34	576
Life-preserver	W. C. McDonald	346,599	Aug. 3	190	50	36	497
Life-preserver	W. McCrory	354,645	Dec. 21	1463	388	37	1286
Life-preserver for vehicles	J. S. Goldsmith	347,269	Aug. 10	1093	292, 293	36	674
Life-preserving corset	A. A. Fearn	345,960	July 20	1662	430	36	311
Life-preserving float	F. Vaughan	346,332	July 27	2182	560	36	417
Life-raft	F. W. Brewster	354,386	Dec. 14	1071	287	37	1210
Life-raft	C. J. Hendry	343,628	June 1	352	91	35	1071
Life-saving apparatus. Tripod for	C. H. McLellan	335,083	Jan. 26	2215	588	34	430
Life-saving car	S. S. Bradford	343,158	June 8	560	141	35	1117
Lift or hoist	J. M. de Aguirre y Lizaola	337,049	Mar. 2	223	59, 60	34	966
Lift or hoist	C. G. Major	338,536	Mar. 23	2236	587, 588	34	1351
Lifter: *See* Bung-lifter. Fruit-lifter. Pan and stove-cover lifter. Pie-lifter. Pie-plate lifter. Plate-lifter. Pot-lifter. Sash-lifter. Track-lifter. Transom-lifter. Wagon-body lifter.							
Lifting device	V. Harbort	352,818	Nov. 16	1510	406	37	755
Lifting device	J. M. McNabb	353,366	Nov. 30	2290	611	37	919
Lifting-jack	J. Baker	348,817	Sept. 7	371	100	36	1116
Lifting-jack	F. A. Brandenburg	342,323	May 25	1877	497	35	881
Lifting-jack	T. L. Chapman	336,793	Feb. 23	2429	639	34	894
Lifting-jack	J. W. Churchill	347,570	Aug. 17	1533	408	36	764
Lifting-jack	S. P. Davis	337,484	Mar. 9	840	213	34	1084
Lifting-jack	J. W. Donohoe	349,698	Sept. 28	1581	410	36	1366
Lifting-jack	W. Dwiggins	345,626	July 13	1183	304	36	219
Lifting-jack	J. W. Hawkins	343,312	June 8	784	196	35	1157
Lifting-jack	A. and S. H. Hughes	353,223	Nov. 23	2068	558	37	875
Lifting-jack	R. Jones	355,173	Dec. 28	2209	583	37	1440
Lifting-jack	G. F. Kaler	352,650	Nov. 16	1286	346	37	713
Lifting-jack	M. H. Levy	344,841	July 6	64	15	36	12
Lifting-jack	T. Maxon	333,878	Jan. 5	521	142	34	97
Lifting-jack	M. C. Meeker	350,597	Oct. 12	701	191	37	134
Lifting-jack	W. F. Morell	350,071	Sept. 28	2109	545, 546	36	1465
Lifting-jack	E. Nordyke	333,968	Jan. 5	643	177	34	121
Lifting-jack	A. Souders	348,480	Aug. 31	2852	768	36	1025
Lifting-jack	A. L. Stanford	346,783	Aug. 3	408	113	36	540
Lifting-jack	A. A. Strom	344,793	June 29	2850	738	36	1556
Lifting-jack	C. A. Sulzman	341,962	May 18	1358	363	35	777
Lifting-jack	H. Walther	335,859	Feb. 9	1087	287	34	644
Lifting-jack	J. Weathers	334,627	Jan. 19	1606	428	34	311
Lifting-jack	W. P. Williams	341,086	May 4	151	45	35	533
Lifting-jack	A. N. Woodard	348,086	Aug. 24	2291	614	36	912
Light: *See* Arc light. Electric light. Electric-arc light. Gas-light. Head-light. Hydrocarbon incandescent light. Night-light. Railway signal-light. Sidewalk-light. Vault-light.							
Light-deflector	C. Kaiser and J. B. Adt	347,113	Aug. 10	881	233	36	635
Light-regulator	R. A. Bacon	337,548	Mar. 9	920	236	34	1098
Lighting device	A. K. Standish	347,529	Aug. 17	1471	390	36	752
Lightning-arrester	J. Horen	339,417	Apr. 6	438	107	35	82
Lightning-rod coupling	E. A. Foy	344,096	June 22	1900	487	35	1374
Lightning-rods. Ball ornament for	A. J. Munson	343,332	June 8	827	207	35	1163
Limekiln	I. F. Garner and W. B. Hill	338,056	Mar. 16	1586	413	34	1223

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Limekiln	C. D. Page	342,629	May 25	2323	613	35	960
Limekiln	E. V. Wingard	346,835	Aug. 3	475	131	36	553
Limekiln	A. Weber	355,043	Dec. 28	2020	531 532	37	1402
Line and trace carrier	J. S. Beesley	353,618	Nov. 30	2670	715	37	900
Line. Driving-	R. H. Mullen	340,517	Apr. 20	2033	522	35	378
Line-holder	H. B. Whiting	338,212	Mar. 16	1796	468	34	1265
Liniment	A. W. Lantz	354,425	Dec. 14	1121	.....	37	1219
Liniment	J. W. Lauer	344,051	June 22	1833	.....	35	1361
Liniment	O. W. Storer	352,378	Nov. 9	808	.....	37	614
Link	W. Mild	340,949	Sept. 28	1941	502	36	1433
Link	J. Scott, Jr	340,158	Apr. 20	1512	382	35	283
Link-grinding machine	B. E. Parks	339,010	Mar. 30	2931	776	34	1480
Lint-machine	J. W. Johnson	349,845	Sept. 28	1808	467	36	1408
Lip-protector	A. F. Hammer-Purgstall	343,176	June 8	579	145	35	1120
Liquid-can	J. Graves	335,069	Jan. 26	2196	583	34	426
Liquid-containing vessel	W. C. Wilson	341,366	May 4	553	153	35	604
Liquid-cooler	E. B. A. Zwoyer	338,906	Mar. 30	2779	732	34	1452
Liquid-elevating apparatus	S. D. Mott	352,833	Nov. 16	1526	411 412	37	758
Liquid-emptier	J. Gasca	343,764	June 15	1456	384	35	1284
Liquid-forcing device	T. Jacobs	349,651	Sept. 21	1511	391	36	1346
Liquid-holder	C. S. Pinkham. (Reissue)	10,732	June 8	1153	291	35	1223
Liquid-level indicator and controller. Automatic electric	J. J. Ghegan	347,589	Aug. 17	1558	414	36	769
Liquid-level indicator. Automatic electric	J. J. Ghegan	352,647	Nov. 16	1284	345	37	712
Liquid-motor	D. W. Webster	339,240	Apr. 6	179	47	35	34
Liquid-pressure generator	H. J. Small and J. McNaughton	347,897	Aug. 24	2017	534 535	36	861
Liquid-separator. Centrifugal	C. A. Backstrom	355,049	Dec. 28	2030	533 534	37	1404
Liquid-separator. Centrifugal	C. A. Backstrom	355,050	Dec. 28	2031	534	37	1404
Liquid-separator. Centrifugal	C. A. Backstrom	355,246	Dec. 28	2316	610	37	1461
Liquid-separator. Centrifugal	C. A. Backstrom	355,247	Dec. 28	2318	611	37	1461
Liquid-separator. Centrifugal	J. Evans	347,702	Aug. 17	1736	463	36	801
Liquid-separator. Centrifugal	C. W. A. Koelkebeck	349,106	Sept. 14	789	200	36	1195
Liquid to air or vapor or gas. Apparatus for exposing large surfaces of	A. A. Denton	339,387	Apr. 6	386	96	35	72
Liquids. Apparatus for transferring	J. T. Kenworthy, D. Sexton, and A. Thompson.	352,695	Nov. 16	1353	365	37	725
Liquids. Apparatus for vaporizing	E. B. Potter	350,445	Oct. 5	471	133	37	91
Liquids. Apparatus for whipping and churning	R. Morton	343,834	June 15	1533	387 388	35	1299
Liquids. Centrifugal machine for separating	C. R. Mellor	334,713	Jan. 19	1725	459 460	34	333
Liquids from casks. Drawing	G. W. Rothrock	350,157	Oct. 5	84	24	37	18
Liquids from solids. Apparatus for separating	P. H. A. Gaillet and L. H. S. H. Huet	349,990	Sept. 28	1997	516	36	1444
Liquids in vacuo. Producing currents of	J. Young	352,287	Nov. 9	820	219 220	37	616
Liquids in vacuo. Treating fermented, fermentable, and distilled	C. W. Ramsay	347,441	Aug. 17	1357	361	36	730
Liquids. Method of packing	E. J. Salisbury	342,540	May 25	2196	581	35	936
Liquors and purifying water and oil. Apparatus for purifying and aging	S. G. Cabell	354,853	Dec. 21	1743	462	37	1340
Lithographer's arm-rest	J. H. Siebold	344,874	July 6	114	28	36	21
Lithographic machines. Inking apparatus for	C. A. Stillman	338,370	Mar. 23	2020	531	34	1312
Lithographic stone. Artificial	J. Wezel	333,801	Jan. 5	418	.....	34	79
Lithographic stones. Machine for surfacing	C. N. Morris	336,582	Feb. 23	2135	560	34	840
Lithographic stones. Machine for surfacing	C. N. Morris	336,583	Feb. 23	2138	560	34	840
Lixiviation and similar compounds. Separating products of	F. M. Endlich and N. H. Muhlenberg.	350,670	Oct. 12	810	.....	37	155
Loading and unloading apparatus	D. C. Boyce	342,424	May 25	2031	536	35	906
Lock:							
See Alarm-lock.							
Bag-lock.							
Bicycle-lock.							
Bolt-lock.							
Car-lock.							
Car-door lock.							
Car-window lock.							
Combination-lock.							
Door-lock.							
Door or safe lock.							
Electro-magnetic permutation-lock.							
Electro-magnetic time-lock.							
End-gate lock.							
Fire-arm lock.							
Fire-arm safety-lock.							
Gun-lock.							
Hame-lock.							
Hasp-lock.							
Hook-lock.							
Indicator-lock.							
Knob-lock.							
Mail-bag lock.							
Mortise-lock.							
Nut-lock.							
Oar-lock.							
Padlock.							
Permutation-lock.							
Pocket-book lock.							
Rosette-lock.							
Row-lock.							
Safe-lock.							
Sash-lock.							
Seal-lock.							
Seat-lock.							
Springless lock.							
Switch-lock.							
Switch and signal lock.							
Till-lock.							
Time-lock.							
Trunk-lock.							
Turret-lock.							
Vehicle-seat lock.							
Wagon-seat lock.							
Whip-socket lock.							
Lock	J. R. and S. K. Ames	354,526	Dec. 21	1277	341	37	1253
Lock	L. L. Bates	347,554	Aug. 17	1511	401	36	759
Lock	P. Brown	335,990	Feb. 9	1370	336	34	674
Lock	P. Cool	345,119	July 6	444	115	36	81
Lock	J. M. Edgar	344,176	June 22	2010	515	35	1393
Lock	J. M. Edgar	352,085	Nov. 2	515	137 138	37	555
Lock	D. F. Haasz	339,644	Apr. 13	811	199	35	149

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Lock	E. Hambujer	350,738	Oct. 12	899	241	37	171
Lock	S. Landgraf	342,611	May 25	2296	607	35	935
Lock	C. J. Letzing	341,025	May 4	68	19	35	518
Lock	S. Shaw	335,965	Feb. 9	1238	329	34	669
Lock	W. D. Spencer	335,648	Feb. 9	789	209	34	589
Lock	H. Tollner	345,337	July 13	748	188	36	141
Lock	C. R. Uhlmann	347,664	Aug. 17	1688	449, 450	36	793
Lock	C. R. Uhlmann	350,573	Oct. 12	666	182	37	128
Lock	G. B. Underwood	349,017	Sept. 14	662	170	36	1172
Lock	A. Wellard	343,290	June 8	754	187, 188	35	1152
Lock and hasp. Combined	A. R. Duryee	347,695	Aug. 17	1724	460	36	800
Lock and key	E. J. Colby	354,097	Dec. 14	651	176	37	1134
Lock and latch	W. I. Alvord	347,414	Aug. 17	1308	349	36	722
Lock and latch. Combined	S. J. and J. W. Hicks	351,107	Oct. 19	1443	378	37	276
Lock and latch. Combined	T. Kirwan	353,492	Nov. 30	2475	661	37	954
Lock and seal for trunks	A. N. Towne	348,358	Aug. 31	2669	719	36	991
Lock-escutcheon	D. H. Sherman	347,445	Aug. 17	1361	362	36	731
Lock for boxes, trunks, &c	S. Landgraf	350,371	Oct. 5	359	103	37	73
Lock for slides or covers	J. W. Meaker	344,126	June 22	1942	496	35	1381
Lock-gate	R. E. Peary	339,458	Apr. 6	495	120, 121	35	92
Locks. Locking and releasing mechanism for	W. C. Fisher	347,029	Aug. 10	755	201	36	612
Locks. Metal hub for	F. W. Hellman	337,494	Mar. 9	850	215	34	1085
Locking a series of drawers or doors. Device for	J. W. Hall	341,746	May 11	1074	286	35	616
Locking and unlocking a number of paper-files arranged within a cabinet. Device for simultaneously	G. H. Richter	345,861	July 20	1526	395	36	285
Locking-bolt	G. Coulon	352,398	Nov. 9	960	257	37	645
Locking device for baling-press doors	F. S. Clark and J. A. Bachman	336,293	Feb. 16	1752	458	34	763
Locket-joint	J. T. Inman	354,144	Dec. 14	727	195	37	1146
Locomotive	R. Abt	339,831	Apr. 13	1061	263, 264	35	194
Locomotive	H. K. Adams	353,395	Nov. 30	2334	623, 624	37	927
Locomotive	W. Anderson	352,601	Nov. 16	1218	330	37	701
Locomotive	R. C. Wright	349,676	Sept. 21	1543	398	36	1352
Locomotive and car brake	J. Tribe	343,680	June 15	1324	331, 332	35	1261
Locomotive ash-pan	J. F. Hussey	346,049	July 20	1786	460	36	332
Locomotive ash-pan	J. B. McCune	341,930	May 18	1320	353	35	770
Locomotive ash-pan	A. S. Miller	354,165	Dec. 14	759	204	37	1151
Locomotive ash-pan	E. F. Vaughn	344,608	June 29	2605	675	35	1510
Locomotive-boiler	W. Dawson	348,831	Sept. 7	388	105	36	1120
Locomotive-boiler	H. C. Goulding	353,303	Nov. 30	2204	590	37	903
Locomotive-boiler	T. Poore	343,378	June 8	735	183	35	1148
Locomotive-boiler	J. E. Wootten	348,942	Sept. 7	548	145	36	1147
Locomotive-boiler	J. E. Wootten	352,315	Nov. 9	725	194	37	599
Locomotive-boiler	J. E. Wootten	354,370	Dec. 14	1057	282	37	1207
Locomotive-boilers. Device for washing out	W. D. Robb	343,921	June 15	1644	421	35	1322
Locomotive-brake	M. A. Dees	342,585	May 25	2251	598	35	947
Locomotive-brake	B. Dunham	346,371	July 27	2096	539	36	402
Locomotive-brake	E. D. Eames	346,364	July 27	2222	570	36	425
Locomotive-brake	G. H. Poor	346,441	July 27	2339	601, 602	36	446
Locomotive-brake	H. A. Wahlert	347,017	Aug. 10	741	197	36	609
Locomotive-brake	H. A. Wahlert	347,407	Aug. 17	1300	346	36	721
Locomotive. Duplex	B. C. Pole	335,479	Feb. 2	539	141, 142	34	538
Locomotive. Electric	C. J. Van Depoele	353,335	Nov. 30	2244	601	37	910
Locomotive. Electrically-actuated	F. L. Pope	339,073	Mar. 30	3015	797	34	1493
Locomotive-engine. Compound	W. B. and J. A. Johnson	351,921	Nov. 2	280	77, 78	37	508
Locomotive-engines. Blast-pipe for	H. and W. Adams	341,865	May 18	1237	331	35	755
Locomotive exhaust-nozzle	H. M. Smith	339,226	Apr. 6	155	41	35	30
Locomotive exhaust-nozzles. Quieter for	E. Thayer	352,720	Nov. 16	1386	375	37	733
Locomotive-furnace	J. R. Alexander	352,217	Nov. 9	728	195	37	599
Locomotive-furnace	J. B. Barnes	354,007	Dec. 7	517	140, 141	37	1100
Locomotive-furnace	T. A. Buckland	334,689	Jan. 19	1691	452	34	326
Locomotive-furnace	T. A. Buckland	347,683	Aug. 17	1710	456	36	797
Locomotive grate-bar	T. W. Heintzelman	347,601	Aug. 17	1578	419	36	773
Locomotive head-light with signal attachment	I. A. and C. I. Williams. (Reissue)	10,751	July 27	2370	607, 608	36	451
Locomotive smoke-consumer	C. E. Davis	340,985	May 4	22	6	35	509
Locomotive smoke-stacks. Attachment for	C. Turner	340,259	Apr. 20	1674	425	35	311
Locomotive spring	J. R. Fish	355,069	Dec. 28	2055	540	37	1469
Locomotive-spring	R. H. Illingworth and D. C. Smiley, Jr.	350,629	Oct. 12	753	206	37	144
Locomotive-spring	R. H. Illingworth and D. C. Smiley, Jr.	350,630	Oct. 12	754	206	37	144
Locomotive-tenders. Safety attachment for	C. W. Dikeman	348,454	Aug. 31	2815	756	36	1018
Locomotive track-clearer	J. A. Cypert	335,509	Feb. 2	582	152	34	544
Locomotive traction-increaser	L. G. Richardson	352,005	Nov. 2	402	109	37	533
Locomotive traction-increaser	H. F. Shaw	353,714	Dec. 7	92	25	37	1023
Locomotive-whistle alarm	C. Hults	338,413	Mar. 23	2076	544	34	1322
Locomotives. Air-compressor and attachment for	T. P. Sweeney	352,102	Nov. 2	542	144	37	560
Locomotives. Automatic attachment for	N. F. Chase	343,362	June 8	875	229, 221	35	1173
Locomotives, &c. Grate-bar for	I. W. Swallow. (Reissue)	10,700	Mar. 16	1835	482	34	1274
Locomotives. Magnetic friction device for	M. S. Shaler	333,554	Jan. 5	74	21	34	16
Locomotives. Motor attachment for	E. J. Strong	339,596	Apr. 6	735	180	35	129
Locomotives with hot water. Feeding	A. Lencauchez	340,222	Apr. 20	1616	409, 410	35	301
Log-dressing machine	W. Wicke	347,854	Aug. 24	1953	518	36	851

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Log-handling mechanism	W. J. Perkins	342,536	May 25	2190	580	35	935
Log-roller	L. G. Orme	354,171	Dec. 14	770	206	37	1154
Log skidding and loading machine	H. N. Hewlett	340,312	Apr. 20	1747	445	35	325
Log-turner	H. T. Basim	334,330	Jan. 12	1193	320	34	229
Log-turner	W. W. Coyle	339,864	Apr. 13	1106	276	35	203
Log-turner	W. Ingalls	338 669	Mar. 23	2424	639	34	1383
Log-turner	A. Rodgers	337,705	Mar. 9	1108	286	34	1131
Log-turner	R. W. Shelbourne	341,951	May 18	1345	360	35	774
Logging-motor	W. M. Victor	335,258	Feb. 2	246	65	34	484
Loom	R. Brownridge and P. Bond	353,201	Nov. 23	2063	551	37	870
Loom	J. W. Emsley	349,933	Sept. 28	1914	496	36	1428
Loom	R. Mair	340,589	Apr. 27	2138	552, 553	35	404
Loom	C. Thompson	343,284	June 8	743	184, 185	35	1150
Loom	W. Weaver	342,408	May 25	2005	529	35	902
Loom for cross-weaving	G. Oldham and W. Dixon	352,258	Nov. 9	781	209	37	609
Loom for weaving chenille or fur pile fabrics	W. Adam	336,197	Feb. 16	1595	418, 419	34	738
Loom for weaving chenille or fur pile fabrics	H. Skinner	354,256	Dec. 14	896	236, 237, 238	37	1176
Loom for weaving figured double pile fabrics	T. I. Shuttleworth	354,358	Dec. 14	1044	279	37	1204
Loom for weaving pile fabrics	T. Harrison	353,937	Dec. 7	410	110, 111	37	1082
Loom for weaving terry fabrics	C. Strobel	346,073	July 20	1817	469	36	339
Loom for weaving tufted fabrics	G. Crompton and H. Wyman	343,013	June 1	324	83	35	1065
Loom for weaving tufted fabrics	G. Crompton and H. Wyman	343,110	June 1	475	121, 122, 123	35	1093
Loom for weaving tufted fabrics	G. Crompton and H. Wyman	343,111	June 1	484	123	35	1094
Loom for weaving tufted fabrics	G. Crompton and H. Wyman	343,112	June 1	487	123, 124	35	1094
Loom for weaving tufted fabrics	G. Crompton and H. Wyman	343,113	June 1	490	124	35	1095
Loom-harness. Mechanism for depressing	G. F. Hutchins	346,408	July 27	2289	588	36	437
Loom-heddle. Wire	F. Taylor	347,138	Aug. 10	918	245	36	642
Loom. Lappet-	G. H. Hodges	343,316	June 8	790	197, 198	35	1159
Loom let-off mechanism	J. and J. Nightingale	348,335	Aug. 31	2641	712, 713	36	985
Loom let-off mechanism	R. E. Waterhouse	334,063	Jan. 12	788	216	34	155
Loom let-off mechanism	L. Wilmott	345,468	July 13	935	235	36	173
Loom let-off mechanism	W. Z. Woodstock	344,336	June 22	2227	573	35	1433
Loom let-off motion	H. L. Esten and A. Greaves	345,627	July 13	1184	304	36	219
Loom. Needle-	L. Woodbury	344,470	June 29	2414	621, 622	35	1474
Loom-picker	J. W. Barlow	339,836	Apr. 13	1072	267	35	197
Loom-picker	A. A. Blakeney and J. S. Compton	340,546	Apr. 27	2077	536	35	393
Loom picker-check	J. H. Crowley	346,400	July 27	2276	583, 584	36	435
Loom picker-staff check	N. Bonneau	345,361	July 13	779	196	36	146
Loom picker-staff check	B. F. Carter	349,979	Sept. 28	1984	512	36	1441
Loom picker-staff check	S. W. Holt	347,801	Aug. 24	1875	500	36	836
Loom picking mechanism	N. Abare	352,905	Nov. 23	1633	439	37	789
Loom shedding mechanism	J. E. and E. Atwood and E. E. Bradley.	346,574	Aug. 3	156	42, 43	36	490
Loom shedding mechanism	J. T. Cree	341,133	May 4	226	67	35	546
Loom shedding mechanism	J. Hinchliffe	349,794	Sept. 28	1735	448	36	1393
Loom shedding mechanism	H. Wyman	336,683	Feb. 23	2292	599	34	868
Loom-shuttle	J. A. Bergan	350,341	Oct. 5	324	92	37	66
Loom-shuttle	R. Cavenaugh	342,065	May 18	1508	403	35	804
Loom-shuttle	A. Claus	344,625	June 29	2630	680	35	1516
Loom-shuttle	M. F. Field	343,577	June 15	1191	299	35	1236
Loom-shuttle	M. F. Field	343,578	June 15	1192	299	35	1236
Loom-shuttle	M. F. Field	343,579	June 15	1193	300	35	1237
Loom-shuttle	L. Goddu	344,369	June 29	2284	587	35	1451
Loom-shuttle	L. Goddu	353,405	Nov. 30	2353	627	37	930
Loom-shuttle	P. F. McGee and M. McMahon	353,872	Dec. 7	314	82	37	1064
Loom-shuttle	C. G. Petzold	349,284	Sept. 14	1016	260	36	1239
Loom-shuttle	J. C. Sergeson	334,616	Jan. 19	1590	424	34	308
Loom-shuttle	R. Shand	339,941	Apr. 13	1207	301	35	221
Loom-shuttle	W. H. Spencer	340,463	Apr. 20	1951	501	35	362
Loom-shuttle	T. Sutcliffe and J. Marshall	350,953	Oct. 19	1198	319	37	233
Loom-shuttle	A. B. Taylor and J. P. Tirrell	336,599	Feb. 23	2162	565	34	844
Loom-shuttle	A. B. Taylor and J. P. Tirrell	349,013	Sept. 14	657	169	36	1171
Loom-shuttle	J. P. Tirrell	351,225	Oct. 19	1600	420	37	306
Loom shuttle-binder	C. H. Knapp	344,450	June 29	2387	615	35	1469
Loom shuttle-box-operating mechanism	W. Lorey and J. Braun	352,419	Nov. 9	984	265	37	650
Loom shuttle-box-operating mechanism	W. Shaw	352,783	Nov. 16	1460	394	37	747
Loom shuttle-motion	T. A. Weber	339,239	Apr. 6	177	46	35	34
Loom shuttle-motion	C. Widmer	345,011	July 6	311	78	36	57
Loom-shuttle spindle	F. J. Freese	343,518	June 8	1095	275	35	1213
Loom-shuttles. Tension-regulating device for	E. F. Hazard and F. W. Greenhalgh.	346,912	Aug. 10	598	160	36	583
Loom stop-motion	J. Megson	348,761	Sept. 7	306	81, 82	36	1104
Loom stop-motions. Filling-fork for	J. A. Platt	348,339	Aug. 31	2650	714	36	987
Loom. Swivel-	J. Wadsworth	338,891	Mar. 30	2759	727	34	1448
Loom take-up and let-off mechanism	M. C. Williams	351,736	Oct. 26	2348	611	37	449
Loom warp-beam	T. Burns, A. Akeroyd, and J. Fowler.	353,538	Nov. 30	2546	679	37	967
Looms. Cloth-beam for	H. Underwood and S. Schweizer	342,148	May 18	1615	432	35	825
Looms for weaving broad silk. Take-up and let-off mechanism for	J. Nightingale, Jr	351,934	Nov. 2	302	83, 84	37	513
Looms for weaving double pile fabrics. Lay or going part of power-	J. F. and G. Priestley	352,425	Nov. 9	994	268	37	652

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Pages.
Looms for weaving double-pile fabrics. Let-off mechanism for	C. Pearson	343,648	June 15	1280	322	35	1253
Looms for weaving wire. Filling-carrier for	L. W. Newton	345,167	July 6	508	130	36	92
Looms for weaving wire, &c. Take-up and let-off mechanism for	F. K. Wright and W. F. Hitchcock	343,557	June 8	1149	290	35	1222
Looms. Lease-rod for	R. C. Irish	342,603	May 25	2284	604	35	952
Looms. Let-off motion for	R. Brown	350,475	Oct. 12	531	148	37	106
Looms. Locking device for the harness-jacks of	G. F. Hutchins	346,407	July 27	2287	587, 588	36	437
Looms. Operating picker-staffs in power	D. M. Collins	333,729	Jan. 5	321	88	34	60
Looms. Positive shuttle-motion for	C. B. Rumsey	340,523	Apr. 20	2038	524	35	379
Looms. Shuttle-binder for	Z. Raby	344,008	June 22	1764	454	35	1350
Looms. Shuttle-box-operating mechanism for	E. Honegger	350,307	Oct. 5	274	78, 79	37	56
Looms. Shuttle for tape	L. W. Fifield	351,259	Oct. 19	1644	432	37	314
Looms. Shuttle-guard for	C. Hahlo, C. E. Liebreich, and T. Hanson	341,571	May 11	839	223	35	669
Looms. Shuttle-operating mechanism for	C. H. Bachelder	345,946	July 20	1643	423	36	308
Looms. Shuttle-operating mechanism for	C. Schilling	340,823	Apr. 27	2460	647	35	460
Looms. Sliding tug-strap holder for power	T. Kendray	351,779	Nov. 2	68	18	37	471
Looms. Stop-motion for	B. F. Meyer and M. Kohler	352,340	Nov. 9	889	239	37	630
Looms. Take-up mechanism for	W. Hathaway	353,026	Nov. 23	1799	483	37	819
Looms. Take-up motion for	G. W. Rhodes	345,544	July 13	1065	271, 272	36	197
Looms. Tension-regulating rolls for wire	J. W. White	348,081	Aug. 24	2286	612, 613	36	911
Looms, &c. Thread-guide for	J. Dalton	347,028	Aug. 10	754	201	36	612
Looms. Variable take-up motion for	G. F. Hutchins	340,216	Apr. 20	1606	407	35	300
Looms. Warp stop-motion for	J. J. Switzer	348,174	Aug. 24	2417	648	36	935
Looms. Weft stop-motion for	O. A. Sawyer	343,732	June 15	1416	353	35	1276
Loop for articles of apparel	F. M. Shepard	349,610	Sept. 21	1467	379	36	1336
Looping-in switch	E. T. Gilliland	336,563	Feb. 23	2116	555	34	836
Lounge	D. T. Holland and W. J. Dohan	350,589	Oct. 12	691	187	37	132
Lounge. Invalid	J. T. Gilbert	349,089	Sept. 14	760	194	36	1189
Louver and blind	G. Hayes	345,691	July 20	1284	333	36	244
Louver and blind	G. Hayes	345,693	July 20	1286	333	36	244
Louver and blind	G. Hayes	345,694	July 20	1287	334	36	245
Louver and blind slat	G. Hayes	335,354	Feb. 2	377	98	34	509
Low pressure engine	A. V. Sanford	346,502	Aug. 3	67	17	36	473
Low-water alarm. Fire-bucket	C. J. Hexamer	335,223	Feb. 2	199	52	34	476
Low-water safety attachment	J. S. Griffith	341,905	May 18	1291	345	35	764
Lozenge-machine	N. A. Clacher	338,483	Mar. 23	2174	568	34	1340
Lubricant	E. S. Marshall and R. W. Savage	339,200	Apr. 6	122	.....	35	24
Lubricant from the cactus-plant. Obtaining a	E. S. Marshall and R. W. Savage	341,156	May 4	255	.....	35	551
Lubricating compound	R. J. Chard	344,079	June 22	1879	.....	35	1370
Lubricating compound	C. Fink	335,443	Feb. 2	497	.....	34	530
Lubricating compound	D. L. McKenzie	351,195	Oct. 19	1566	.....	37	300
Lubricating compound	C. E. Thompson	335,546	Feb. 2	633	.....	34	554
Lubricating device	J. Lauhoff	333,868	Jan. 5	508	139	34	94
Lubricating device. Crank-pin	J. H. Emery	344,364	June 29	2276	585	35	1449
Lubricating mechanism for journal-boxes	J. Walker	342,486	May 25	2113	558	35	922
Lubricating purposes. Grease-feeder for	C. A. Thompson	340,256	Apr. 20	1670	424	35	310
Lubricating steam-engines	N. F. Burnham	336,838	Feb. 23	2491	655	34	905
Lubricator: *See* Axle-lubricator. Drop-feed lubricator. Car-wheel lubricator. Engine-cylinder lubricator. Commutator-lubricator. Sight-feeding lubricator. Cylinder-lubricator. Steam-engine lubricator.							
Lubricator	H. Allton	352,026	Nov. 2	429	116, 117	37	538
Lubricator	R. Ames	339,251	Apr. 6	200	51	35	37
Lubricator	P. A. Bennett	347,284	Aug. 10	1115	299	36	678
Lubricator	W. H. Bingham	346,981	Aug. 10	684	182	36	600
Lubricator	F. Bold	351,421	Oct. 26	1908	496	37	366
Lubricator	J. Brooks and W. A. Sweetser	344,811	July 6	10	3	36	4
Lubricator	W. W. Cole	348,451	Aug. 31	2811	755	36	1018
Lubricator	T. Davis and H. H. McDonough	351,967	Nov. 2	344	95	37	522
Lubricator	J. Ellis	347,335	Aug. 17	1496	320	36	703
Lubricator	J. Ellis	347,336	Aug. 17	1198	320	36	703
Lubricator	W. M. Evans and J. G. Cordner	353,671	Dec. 7	23	7	37	1011
Lubricator	R. Fleming	355,155	Dec. 28	2180	575	37	1434
Lubricator	R. P. Gerlach	337,392	Mar. 9	686	179	34	1059
Lubricator	P. Häckler	337,396	Mar. 9	692	180	34	1060
Lubricator	T. Holland	342,358	May 25	1936	511	35	890
Lubricator	L. Kaczander and R. Ruddy	337,500	Mar. 9	859	217	34	1087
Lubricator	F. W. Krantz	342,753	May 25	2503	666	35	994
Lubricator	M. Lindner	338,087	Mar. 16	1625	423	34	1231
Lubricator	W. Loeffler	354,156	Dec. 14	749	201	37	1150
Lubricator	S. M. Main	336,578	Feb. 23	2132	559	34	839
Lubricator	J. Powell. (Reissue)	10,728	May 18	1863	493	35	870
Lubricator	J. Powell	335,146	Feb. 2	65	18	34	452
Lubricator	J. Powell	348,170	Aug. 24	2407	645	36	934
Lubricator	R. Ruddy	334,679	Jan. 19	1676	448	34	324
Lubricator	P. L. Schmitt. (Reissue)	10,780	Nov. 2	558	148	37	562
Lubricator	P. L. Schmitt	354,353	Dec. 14	1038	277	37	1203
Lubricator	W. T. Smith	340,385	Apr. 20	1851	475	35	345
Lubricator	A. Warth	345,558	July 13	1085	277, 278	36	201
Lubricator	O. Williams	334,323	Jan. 12	1184	318	34	228
Lubricator for loose pulleys, &c	E. A. Byrne and E. Kosiol	342,425	May 25	2034	537	35	907
Lumber. Asbestus	E. A. Hayes	339,769	Apr. 13	986	243, 244	35	180
Lumber. Compound	J. Maris	339,199	Apr. 6	120	33	35	24
Lumber-cutting machine	H. S. Smith	342,939	June 1	234	60, 61	35	1048

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lumber. Device for binding together	J. T. Barber	338,334	Mar. 23	1962	516	34	1303
Lumber-drier	W. E. Cole	340,660	Apr. 27	2238	587	35	420
Lumber-drier	J. J. Curran	336,511	Feb. 16	2035	534	34	816
Lumber-drier	G. H. Derby	334,940	Jan. 26	2007	535	34	393
Lumber-drier	P. B. Raymond	338,440	Mar. 23	2118	554	34	1329
Lumber-drier	G. W. Sharer	347,367	Aug. 17	1275	339, 340	36	716
Lumber-stacker	W. T. Smith	348,591	Sept. 7	80	23, 24	36	1062
Lunch-box. Folding	W. W. Flint	335,119	Feb. 2	27	8, 9	34	445
Machine-table gage	C. M. Letz	336,814	Feb. 23	2459	645	34	899
Machinery. Device for supporting	J. D. Huntington	346,106	July 27	1857	480	36	356
Machinery. Reversing mechanism for	J. S. Masterman	341,491	May 11	720	194	35	646
Machinery. Stand and treadle mechanism for	F. H. Richards	335,626	Feb. 9	759	202	34	583
Magazine-boilers. Coal-filling and gas-controlling device for	J. E. Thomas	341,360	May 4	545	150	35	603
Magazine-holder	W. J. Lee	338,758	Mar. 30	2568	678	34	1415
Magnet. Electro-	E. B. Cutten	343,227	June 8	656	163	35	1134
Magnet. Electro-	M. G. Farmer	351,256	Oct. 19	1639	430	37	313
Magnet. Electro-	E. Thomson	350,957	Oct. 19	1205	320	37	234
Magnets. Armature for electro-	C. A. Gaiser	338,260	Mar. 23	1860	489	34	1285
Magnets. Armature for electro-	C. A. Gaiser	338,261	Mar. 23	1861	489	34	1285
Magnets. Armature for electro-	O. C. Woolson	341,981	May 18	1384	369, 370	35	781
Magnets. Automatic compensator for	E. Thomson	350,956	Oct. 19	1202	320	37	233
Magnets. Device for controlling the movements of the armatures of electro-	C. L. Clarke	343,008	June 1	315	81, 82	35	1064
Magnetic separator	C. O. Bartlett	349,422	Sept. 21	1214	315	36	1286
Magnetic separator	G. A. Gilbert	348,121	Aug. 24	2334	626	36	920
Magnetic separator	G. Schaeffer	339,017	Mar. 30	2944	779	34	1482
Magneto-calls. Short-circuiting device for	G. A. Mason	339,672	Apr. 13	853	209	35	157
Magneto-electric and electro-magnetic machine	R. Eickemeyer	342,504	May 25	2150	568, 569, 570	35	927
Magneto-electric and electro-magnetic machine	R. Eickemeyer	351,902	Nov. 2	243	69	37	503
Magneto-electric and electro-magnetic machine	R. Eickemeyer	351,903	Nov. 2	245	69	37	503
Magneto-electric machine	F. E. Fisher	336,000	Feb. 9	1286	341	34	677
Magneto or dynamo electric machine	R. Thury	333,902	Jan. 5	546	148, 149	34	102
Mail-bag	L. W. Freeman	344,775	June 29	2819	730	35	1549
Mail-bag	H. F. Gaines	354,546	Dec. 21	1306	347	37	1258
Mail-bag	J. C. Gunn	348,965	Sept. 14	582	154	36	1160
Mail-bag	W. Hawn	353,407	Nov. 30	2358	628	37	931
Mail-bag	G. W. Smith	353,645	Nov. 30	2720	726	37	998
Mail-bag catcher	E. Allen and W. H. Harrod	334,921	Jan. 26	1988	529	34	390
Mail-bag fastener and label-holder. Combined	M. V. B. Ethridge	345,675	July 20	1266	328	36	241
Mail-bag fastening	M. V. B. Ethridge	346,149	July 27	1924	497	36	369
Mail-bag fastening	W. W. Sylvester	349,067	Sept. 14	729	186	36	1184
Mail-bag lock	H. F. Gaines	353,300	Nov. 30	2200	589	37	902
Mail-bag lock	J. H. McCormick	351,063	Oct. 19	1384	363	37	265
Mail bag or pouch	P. Campbell	335,424	Feb. 2	471	121, 122	34	526
Mail-bags. Combined fastener and label for	R. H. Barnitz	348,374	Aug. 31	2702	725	36	996
Mail-bags. Device for attaching and detaching wood labels to	J. C. McKenzie	344,488	June 29	2442	628	35	1479
Mail-box and indicator. Electric	H. F. Staus	337,796	Mar. 9	1219	317	34	1151
Mail-carrier	J. M. Clifton	346,357	July 27	2210	567	36	423
Mail-crane attachment	C. P. and C. M. C. Williams	341,618	May 11	903	240	35	682
Mail-pouch	L. B. Lathrop	348,678	Sept. 7	203	53, 54	36	1084
Mail. Vehicle for delivering	H. B. Sortor	336,764	Feb. 23	2391	626, 627	34	888
Mailing-tube	J. P. Buckingham	347,416	Aug. 17	1310	350	36	722
Mainspring-barrels. Manufacture of	G. E. Hart	338,963	Mar. 30	2847	751	34	1466
Mainspring-winder	O. C. Dow	335,023	Jan. 26	2125	566	34	414
Mainspring-winder	C. Gullberg	342,745	May 25	2493	663	35	992
Mainsprings. Manufacture of	P. H. Meerlender	352,767	Nov. 16	1441	388	37	743
Mainsprings. Winding-stop for	C. Morlet	349,896	Sept. 28	1868	483	36	1420
Malleting-machine	F. M. Leavitt and A. O. Kittredge	343,540	June 8	1124	283, 284	35	1218
Malt. Apparatus for the manufacture of	C. Fey	345,128	July 6	453	117	36	83
Malt-drier	W. H. Bailey	346,344	July 27	2194	562, 563	36	420
Malt-drier	C. Brada	355,128	Dec. 28	2141	563, 564	37	1426
Malt-drier	P. Lauth	341,256	May 4	396	109, 110	35	578
Malt-drying apparatus	J. W. Free and J. O. Brown	351,432	Oct. 26	1923	501	37	368
Malt liquors. Service apparatus for	J. P. Gruber	348,668	Sept. 7	186	50	36	1081
Malt. Machinery for making	J. O. Brown and J. W. Free	351,491	Oct. 26	2013	523	37	386
Malting and drying apparatus	J. F. Baldwin	350,472	Oct. 12	527	147	37	105
Malting apparatus	C. Völckner	340,642	Apr. 27	2217	582	35	416
Man-hole cover	R. Munroe	339,998	Apr. 13	1293	323	35	237
Manacle	N. Davis	349,696	Sept. 28	1579	409	36	1365
Mandrel. Expanding	H. Cottrell	340,291	Apr. 20	1720	438	35	319
Mandrel for springs	P. N. French	349,427	Sept. 21	1221	317	36	1287
Mandrel. Saw-	E. M. Byrkit	335,336	Feb. 2	351	91	34	504
Manger	W. Burrows	336,209	Feb. 16	1623	423	34	742
Mangle and wringer. Combined	T. Collier	346,427	July 27	2315	596	36	442
Mantel	J. Graves	350,928	Oct. 19	1166	310	37	226
Manure-carrying machine	C. Stubbs	351,410	Oct. 26	1896	494	37	363
Manure-distributer	W. C. McTyeire	340,591	Apr. 27	2140	553, 554	35	404
Manure-pouch	J. Bellerjeau	342,171	May 18	1645	444	35	830
Manure-pouch	T. M. McDonough	337,181	Mar. 2	404	105	34	1000
Manure-spreader	D. B. Merrell	341,493	May 11	724	195	35	647

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Map	F. M. Taylor	348,068	Aug. 24	2269	607	36	908
Map and window-shade case	J. M. Sauder	338,879	Mar. 30	2736	720	34	1445
Map-case	S. E. Nutting	343,060	June 1	405	103	35	1080
Map, chart, and book case. Combined	D. D. Van Wie	337,095	Mar. 2	283	75	34	979
Marble. Composition for use in the manufacture of artificial	C. Straub	353,896	Dec. 7	355	.....	37	1072
Marble or stone. Composite for	J. F. McCormic	339,569	Apr. 6	676	.....	35	122
Marble-sawing machine	J. F. Coyne	334,217	Jan. 12	1028	274	34	199
Marbles. Device for projecting	F. H. Voigt	336,535	Feb. 16	2070	544	34	822
Marine way	J. E. Staples	334,094	Jan. 12	836	228, 229	34	163
Marker. Ground	J. V. B. Rapp	345,730	July 20	1339	348	36	254
Marker. Land	A. T. Stewart	337,092	Mar. 2	279	74	34	978
Marker. Universal	E. J. Hildreth and T. R. Miller	335,357	Feb. 2	382	99	34	510
Marking and furrowing machine	J. Flomerfelt	345,042	July 6	346	87	36	63
Marking and stamping apparatus	G. Hey and E. Laass	341,360	May 4	572	158	35	609
Marking-gage	F. A. Humphrey	349,102	Sept. 14	784	199	36	1194
Marking-gage	C. E. Zimmermann	349,330	Sept. 21	1067	274	36	1258
Mash in distilleries, &c. Cooling	W. E. Keyes	354,709	Dec. 21	1551	411	37	1303
Masher. Vegetable	N. Johnson	352,132	Nov. 9	604	160	37	578
Masher. Vegetable	W. J. Johnson	338,600	Mar. 23	2324	609	34	1365
Mashing. Apparatus for preparing grain for	H. Fox	341,801	May 11	1141	303	35	728
Mason's hawk	R. R. Coursen	348,268	Aug. 31	2559	688	36	968
Mast-arm	J. S. Adams	354,759	Dec. 21	1627	430, 431	37	1317
Mast head and foot gear. Combined	J. H. Rushton	352,713	Nov. 16	1378	373	37	731
Mast or tower	J. S. Adams	354,758	Dec. 21	1626	430	37	1316
Mat: *See* Disinfecting-mat. Picture-mat. Door-mat. Water-closet mat. Oil-press mat.							
Mat	F. Greenland	333,942	Jan. 5	610	166	34	114
Mat	F. Greenland	343,308	June 8	779	195	35	1157
Mat, stair, or step tread or pad	A. Spadone	334,994	Jan. 26	2060	556	34	406
Match	F. W. Farnham	335,065	Jan. 26	2189	581	34	425
Match	C. T. Mackley	348,679	Sept. 7	205	54	36	1084
Match and cigarette box	S. N. Randolph	353,327	Nov. 30	2215	599	37	909
Match-box	B. May	345,914	July 20	1600	412	36	301
Match-box and cigar-cutter. Combined	P. Abbott	337,807	Mar. 16	1245	323	34	1163
Match-box and cigar-holder. Combined	J. Smith	337,889	Mar. 16	1340	347	34	1180
Match-boxes. Machine for making	C. J. Donnelly	351,627	Oct. 26	2219	574	37	424
Match-dipping apparatus	C. Martin	349,111	Sept. 14	795	201	36	1196
Match-holder	E. Putnam and J. Kirschbaum	348,688	Sept. 7	217	57	36	1086
Match-machine	P. Beer	335,416	Feb. 2	461	119	34	523
Match-machine	T. A. Cook and F. Labelle	345,485	July 13	955	241, 242	36	177
Match-machine	B. T. Steber	352,162	Nov. 9	653	172	37	586
Match making and dipping machine	C. Martin	349,113	Sept. 14	798	202, 203	36	1196
Match-making machine	L. Kittinger	341,809	May 11	1150	305, 306, 307	35	730
Match-making machine	G. E. Norris and W. E. Hagen	336,424	Feb. 16	1925	504, 505	34	797
Match. Pyrotechnic	C. Weibach	340,747	Apr. 27	2362	622	35	441
Match-safe and cigar-cutter combined. Pocket	J. N. Williams	345,005	July 20	1728	445	36	323
Match-tray	C. Martin	349,112	Sept. 14	797	202	36	1196
Matches. Apparatus for manufacturing	J. D. Mantion, W. C. Macdonald, and J. J. Riley.	346,597	Aug. 3	187	50	36	496
Matches. Apparatus for the manufacture of	G. A. Sweetser	342,398	May 25	1988	525, 526	35	899
Matches. Machine for making	W. E. Doolittle	351,750	Nov. 2	29	8, 9	37	464
Matches. Machine for making	G. E. Norris and W. E. Hagan	337,074	Mar. 2	253	67, 68	34	973
Matches. Machine for making	G. E. Norris and W. E. Hagan	352,997	Nov. 23	1758	471, 472	37	811
Matches. Making	G. Flewwelling and G. J. Harris	335,516	Feb. 2	593	154	34	546
Matches. Manufacture of	W. E. Doolittle	337,821	Mar. 16	1266	328	34	1166
Matches. Manufacture of	W. E. Doolittle	347,265	Aug. 10	1087	291	36	673
Matches. Method of making	L. Kittinger	341,810	May 11	1157	308, 309	35	732
Matrix	D. J. Riker	336,824	Feb. 23	2471	649	34	902
Matting-strands. Machine for stapling	F. Greenland	333,943	Jan. 5	611	166	34	114
Mattress	L. P. Nelson	341,387	May 4	587	161	35	611
Mattress. Leak-stopping	J. H. L. Tuck	353,718	Dec. 7	97	26	37	1024
Mattress. Metallic-spring	W. Hewitt	335,924	Feb. 9	1187	316	34	660
Mattresses. Frame for woven	J. F. Sloan	336,444	Feb. 16	1954	512	34	801
Mattresses. Frame for woven-wire	W. S. Seymour	351,073	Oct. 19	1395	366	37	267
Mattresses. Machine for manufacturing wire	O. Reinnan	347,829	Aug. 24	1924	510, 511	36	845
Maul and fence-post driver	H. H. Smith	335,544	Feb. 2	631	166	34	553
Measure. Automatic grain	S. E. Croshaw	355,064	Dec. 28	2048	538	37	1407
Measure. Automatic grain	W. Looney	348,287	Aug. 31	2582	694	36	973
Measure case. Tape	W. Keuffel	338,602	Mar. 23	2326	609	34	1366
Measure for drafting garments	J. D. McCann	334,477	Jan. 19	1368	370	34	268
Measure. Liquid	J. S. Cole	350,810	Oct. 12	1006	269	37	190
Measure. Shoe-maker's	A. S. Adler	337,039	Mar. 2	212	56	34	964
Measure. Shot and powder	W. N. Beardsley and L. Keller	353,115	Nov. 23	1933	518	37	845
Measure. Tailor's	A. Schad	343,859	June 15	1569	398	35	1306
Measure. Tape	J. Fountain	353,851	Dec. 7	281	74	37	1058
Measure. Tape	A. H. Hyde	338,527	Mar. 23	2223	585	34	1350
Measure. Tape	E. H. Wheeler	348,805	Sept. 7	358	97	36	1114
Measures. Attachment for	O. F. Lagerquist	343,908	June 15	1630	415	35	1318
Measures. Attachment for tape	E. Herline, Jr	338,410	Mar. 23	2073	543	34	1322
Measures. Dial for speed	H. Läuchli	333,641	Jan. 5	188	50, 51	34	37

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Measuring and continuously registering physical power. Apparatus for	A. G. Meeze	336,336	Feb. 16	1803	472	34	774
Measuring and continuously registering physical power. Apparatus for	A. G. Meeze	336,337	Feb. 16	1806	472, 473, 474	34	774
Measuring and packaging seeds. Machine for	J. C. Brown	354,094	Dec. 14	644	175	37	1133
Measuring and registering grain. Automatic apparatus for	E. Witt	345,353	July 13	768	193	36	144
Measuring and transferring liquids. Vessel for	L. H. Smith	341,066	May 4	126	38	35	528
Measuring and winding cloth. Machine for	E. J. Benedict	341,722	May 11	1045	277	35	710
Measuring apparatus and sack-holder. Grain-	R. C. Livingston	335,940	Feb. 9	1208	321	34	664
Measuring apparatus for oils and similar fluids. Store-service	J. P. Gruber	348,669	Sept. 7	189	50	36	1081
Measuring-can	A. D. Lewis and C. S. Irish	348,564	Sept. 7	42	12	36	1055
Measuring car-wheels. Device for	J. J. Cole	354,595	Dec. 21	1385	367	37	1272
Measuring circles and ovals. Device for	L. Courlander	353,520	Nov. 16	1107	300	37	681
Measuring device. Grain-	W. J. Ricards	350,503	Oct. 12	570	157	37	111
Measuring device. Tailor's outline	J. S. Hand	341,572	May 11	859	223	35	669
Measuring electric currents. Apparatus for	P. Cardew	342,777	June 1	5	2	35	1008
Measuring electric currents. Apparatus for	J. L. Huber	338,597	Mar. 23	2330	608	34	1365
Measuring electrical currents. Apparatus for	J. L. Huber	338,596	Mar. 23	2319	607	34	1364
Measuring fluids under pressure. Device for	H. Hammerschmidt	350,826	Oct. 12	1029	275	37	195
Measuring lengths, grades, and directions of lines. Instrument for	L. R. Hollingsworth	349,590	Sept. 21	1441	371	36	1331
Measuring liquids and discharging the same into bottles. Apparatus for	J. D. Westgate	340,646	Apr. 27	2221	583	35	417
Measuring piece goods	F. P., J., and P. Desbruères	343,303	June 8	773	193	35	1155
Measuring powders. Instrument for	J. J. Stephens	343,776	June 15	1469	368	35	1286
Measuring rope. Reel for	F. A. Winter	353,107	Nov. 23	1925	516	37	843
Measuring-tank	W. Neil	349,734	Sept. 28	1653	427	36	1377
Measuring the distance and height of objects. Instrument for	W. Farquharson	353,127	Nov. 23	1948	522	37	848
Measuring-vessel	L. D. Miller	350,313	Oct. 5	283	81	37	57
Measuring-vessels. Alarm attachment for	A. Daggett	341,641	May 11	933	247	35	687
Measuring-wheel	J. L. McCaleb	344,536	June 29	2517	649	35	1492
Meat and vegetable cutter	E. P. Hand	342,353	May 25	1927	509	35	888
Meat and vegetable slicing machine	J. W. Anderson	337,545	Mar. 9	915	234, 235	34	1097
Meat-block	E. Gardner	333,512	Jan. 5	24	7	34	7
Meat-chopping machine	P. E. Shirk	339,222	Apr. 6	148	40	35	29
Meat-clamp	W., Sr., and W. L. Parks, Jr	348,869	Sept. 7	316	84	36	1106
Meat-cutter	P. Deissler	353,483	Nov. 30	2464	658	37	952
Meat-cutter	A. J. Eddy	347,477	Aug. 17	1404	374	36	739
Meat-cutter	H. J. Landolt	352,414	Nov. 9	978	263	37	649
Meat-cutter	C. F. Leopold	348,132	Aug. 24	2346	630	36	923
Meat-cutter	T. Lyons	334,123	Jan. 12	874	239	34	170
Meat-cutter	O. D. Woodruff	352,023	Nov. 2	424	115	37	537
Meat-cutter	C. Zies	335,730	Feb. 9	907	239	34	610
Meat-cutting machine	J. G. Baker	339,833	Apr. 13	1067	265	35	196
Meat-cutting machine	J. G. Baker	339,834	Apr. 13	1068	266	35	196
Meat-cutting machine	A. J. Hellings and J. Everett	343,314	June 8	786	197	35	1158
Meat-cutting machine	C. F. Leopold	340,794	Apr. 27	2421	638	35	453
Meat-cutting machine	F. Lindner	334,789	Jan. 26	1821	485, 486	34	359
Meat-cutting machine	C. Schiller	339,479	Apr. 6	529	128, 129	35	98
Meat. Device for salting	C. L. Sterling	341,357	May 4	540	149	35	602
Meat-hook	J. Finnegan and J. H. Alexander	342,194	May 18	1668	445	35	834
Meat-hook	J. Koeberle	340,050	Apr. 13	1364	342	35	249
Meat-hook	J. W. Leggitt	336,123	Feb. 16	1470	368	34	717
Meat-hook	B. A. Stevens	336,671	Feb. 23	2277	595	34	865
Meat-mincing and sausage-stuffing machine. Combined	T. Williams, Jr	347,408	Aug. 17	1301	347	36	721
Meat. Preservation of	C. Marchand	349,852	Sept. 28	1817	.....	36	1410
Meat-slicing machine	R. B. Pumphrey	337,790	Mar. 9	1211	315	34	1149
Meat-suspending hook	J. Cairns	351,739	Nov. 2	12	4	37	461
Meat-tenderer	H. Borchers and E. M. Chamness	354,679	Dec. 21	1511	400	37	1294
Meat-tenderer	J. D. Foster	338,258	Mar. 23	1859	488	34	1285
Meat-tenderer	T. E. Sharp	347,651	Aug. 17	1668	443	36	790
Meat-tenderer	D. E. Van Horn	336,455	Feb. 16	1970	516	34	804
Mechanical detector	G. H. Gaskins	348,120	Aug. 24	2333	626	36	920
Mechanical motor	L. P. Jordan and C. B. Stough	335,396	Feb. 2	434	112	34	519
Mechanical movement	J. E. and J. W. Adams	341,438	May 11	653	177	35	633
Mechanical movement	O. and C. W. Arnold	342,060	May 18	1498	400	35	802
Mechanical movement	W. C. Bramwell	334,341	Jan. 12	1211	327	34	233
Mechanical movement	E. Clement	350,479	Oct. 12	536	149, 150	37	106
Mechanical movement	J. Conway	342,734	May 25	2478	658	35	989
Mechanical movement	G. Crompton and H. Wyman	336,623	Feb. 23	2201	574, 575	34	850
Mechanical movement	G. Crompton and H. Wyman	336,624	Feb. 23	2203	575	34	850
Mechanical movement	G. Crompton and H. Wyman	336,625	Feb. 23	2204	575	34	851
Mechanical movement	G. Crompton and H. Wyman	336,626	Feb. 23	2205	576	34	851
Mechanical movement	G. Crompton and H. Wyman	336,627	Feb. 23	2206	576	34	851
Mechanical movement	G. Crompton and H. Wyman	339,047	Mar. 30	2982	789	34	1488
Mechanical movement	G. Crompton and H. Wyman	339,048	Mar. 30	2983	789	34	1488
Mechanical movement	G. Crompton and H. Wyman	339,630	Apr. 13	772	191	35	143
Mechanical movement	G. Crompton and H. Wyman. (Reissue.)	10,735	June 8	1158	292	35	1224
Mechanical movement	S. Devisme	344,357	June 29	2265	582	35	1447
Mechanical movement	A. Fahrney	337,826	Mar. 16	1269	329	34	1167
Mechanical movement	J. Frist	334,699	Jan. 19	1705	453	34	329
Mechanical movement	C. Hammelmann	339,547	Apr. 6	643	156	35	116

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Mechanical movement	U. Haskin	347,294	Aug. 10	1131	303	36	681
Mechanical movement	J. A. Horton	341,912	May 1	1300	347, 348	35	766
Mechanical movement	B. Huber and W. K. Hodgman	348,162	Aug. 2	2395	642, 643	36	932
Mechanical movement	O. Hufeland	339,987	Apr. 1	1275	318	35	234
Mechanical movement	F. Jackson	337,956	Mar. 1	1452	376	34	1200
Mechanical movement	A. D. Jeffrey	339,893	Apr. 1	1145	285	35	211
Mechanical movement	T. A. Macaulay	340,227	Apr. 2	1624	411	35	302
Mechanical movement	C. B. Maxson	339,912	Apr. 1	1169	291	35	215
Mechanical movement	G. F. McIndoe	338,541	Mar. 2	2244	589	34	1352
Mechanical movement	L. W. Morse	343,672	June 1	1314	329	35	1258
Mechanical movement	F. M. Nixon	335,531	Feb. 5	615	161	34	550
Mechanical movement	F. Reed	334,806	Jan 2	1847	492	34	364
Mechanical movement	A. A. Rheutan	349,901	Sept. 2	1875	484	36	1421
Mechanical movement	F. H. Richards	338,302	Mar. 2	1918	505	34	1295
Mechanical movement	F. H. Richards	340,156	Apr. 2	1509	381, 382	35	282
Mechanical movement	F. H. Richards	340,247	Apr. 2	1658	421	35	308
Mechanical movement	F. H. Richards	340,248	Apr. 2	1659	421, 422	35	308
Mechanical movement	F. H. Richards	343,857	June 1	1567	397	35	1305
Mechanical movement	F. H. Richards	353,760	Dec. 7	149	41, 42	37	1034
Mechanical movement	C. Schirrmeister	345,077	July 6	387	98	36	71
Mechanical movement	J. S. Swan	354,074	Dec. 7	612	168	37	1118
Mechanical movement	G. Walsh and J. Boothroyd	351,228	Oct. 19	1603	421	37	306
Mechanical movement	W. Weaver	342,409	May 2	2008	530	35	902
Mechanical movement for converting motion	A. Kaiser	334,173	Jan. 12	1952	258	34	184
Mechanical movement for operating gate-bars, switches, signals, and the like.	M. B. Mills	348,856	Sept. 7	422	114	36	1125
Medical compound	S. W. Fleming	347,759	Aug. 17	1811	.....	36	815
Medical compound	R. G. Gish	333,746	Jan. 5	348	.....	34	65
Medical compound	E. Sonstadt	345,867	July 20	1534	.....	36	287
Medical operating-couch	F. W. Uhde	346,246	July 27	2064	530	36	396
Medical remedy. Rubefacient	F. H. Wyeth	350,405	Oct. 5	395	.....	37	79
Medicated benzoic sulphinide compound	C. Fahlberg	343,803	June 15	1500	.....	35	1293
Medicated lozenge	A. W. Holway	349,591	Sept. 21	1442	.....	36	1331
Medicating bed-quilts. Composition for	C. M. Kimball	348,748	Sept. 7	289	.....	36	1101
Medicating water. Apparatus for	C. C. Harker	349,884	Sept. 28	1857	479	36	1418
Medicinal aerated water	J. V. Riggs	348,344	Aug. 31	2653	.....	36	988
Medicinal tablets, &c. Machine for making	C. L. Jensen	354,319	Dec. 14	989	263	37	1193
Medicinal tea	P. Homero	333,632	Jan. 5	176	.....	34	35
(Medicine.) Asthma remedy	J. Girdwood	333,513	Jan. 5	24	.....	34	8
Medicine-case	F. C. Zanetti	341,621	May 11	906	241	35	682
Medicine-cases. Safety device for	C. B. O'Melveny	344,055	June 2	1839	472	35	1362
Medicine-chest	T. J. Hutton	350,251	Oct. 5	209	60	37	44
(Medicine.) Dyspepsia remedy	B. Farley	343,660	June 15	1294	.....	35	1255
Medicine-holder	F. H. Wyeth	350,406	Oct. 5	397	114	37	79
(Medicine.) Kidney diseases. Remedy for	N. C. and A. T. McCutcheon	348,854	Sept. 7	418	.....	36	1125
Medicine. Manufacturing a confection to contain	G. C. Huttemeyer	352,466	Nov. 9	1045	281	37	661
(Medicine.) Pile remedy	J. W. Godson	348,278	Aug. 31	2570	.....	36	963
(Medicine.) Remedy for dropsy	P. E. Campbell	345,671	July 20	1262	.....	36	240
(Medicine.) Remedy for kidney diseases	F. E. Chadwick	350,867	Oct. 12	1089	.....	37	206
(Medicine.) Skin diseases. Remedy for	W. B. Ferguson	338,725	Mar. 30	2517	.....	34	1406
Medico-electrical apparatus	J. R. Hard	348,465	Aug. 31	2828	760, 761	36	1021
Menthol cone. Protected	D. Dick	344,949	July 6	208	54	36	39
Menthol. Obtaining	A. M. Todd. (Reissue)	10,705	Mar. 30	3092	818	34	1506
Merchandise. Device for displaying	H. H. Proctor	341,856	May 11	1216	326	35	743
Merchandise-receptacle	L. Whitehead	338,810	Mar. 30	2639	695	34	1427
Mercurial regulator for dampers, &c	R. J. Flinn	354,120	Dec. 14	686	185	37	1140
Mercurial regulator for dampers, &c	R. J. Flinn	354,121	Dec. 14	690	185	37	1140
Mercurial regulator. Pressure and vacuum	P. J. Flinn	354,119	Dec. 14	685	184	37	1139
Merry-go-round	D. Jennings	345,787	July 20	1424	369	36	269
Metal. Apparatus for clarifying molten	A. C. Hogen	336,236	Feb. 16	1670	434	34	749
Metal. Apparatus for compressing cast	E. B. Meatyard	347,003	Aug. 10	711	188	36	604
Metal. Apparatus for compressing fluid	E. B. Meatyard	347,004	Aug. 10	713	188, 189, 190	36	605
Metal bar or plate. Compound	C. B. Headly	344,831	July 6	39	.....	36	9
Metal bars. Machine for coiling	J. J. Anderson	350,612	Oct. 12	723	196	37	139
Metal bars. Machine for drawing	L. D. York	335,496	Feb. 2	565	148	34	542
Metal bars. Machine for swaging	J. Berry	337,397	Mar. 2	561	148	34	1029
Metal bars or pipes. Machine for straightening	P. Medart	352,652	Nov. 16	1290	348	37	713
Metal bars or pipes. Machine for straightening	P. Medart	352,705	Nov. 16	1368	369, 370	37	728
Metal bars or pipes. Machine for straightening	P. Medart	352,706	Nov. 16	1371	370, 371	37	729
Metal bending and straightening machine	W. J. Muncaster	334,455	Jan. 19	1364	369, 370	34	267
Metal-bending apparatus	E. Noble, Jr., and G. F. Branham	345,444	July 13	900	224, 225, 226	36	167
Metal-bending machine	J. C. Chapman	350,115	Oct. 5	25	7	37	8
Metal-bending machine	G. A. Ohl	338,100	Mar. 16	1652	429, 430	34	1237
Metal can, &c	A. Warner	337,539	Mar. 9	909	232	34	1095
Metal. Compressing fluid	F. Billings and W. R. Hinsdale	333,591	Jan. 5	128	35	34	26
Metal-cutting machine	J. D. McDougal	354,334	Dec. 14	1012	268, 269	37	1198
Metal. Device for drawing	R. White	353,188	Nov. 23	2046	546	37	866
Metal. Drawing	G. C. Reese	342,040	May 18	1465	393	35	796
Metal fabric	I. Kinney	343,958	June 15	1697	435	35	1331
Metal. Fagoting	F. B. Felt	352,947	Nov. 23	1687	453	37	798

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Metal-feeding roll	W. Lang	345,386	July 13	811	204, 205	36	151
Metal-flanging device	W. Kent	341,020	May 4	63	17	35	517
Metal for welding. Heating	J. B. Root	346,611	Aug. 3	205	56	36	500
Metal forging, cutting, or punching machine	R. A. Hardcastle	354,411	Dec. 14	1104	296	37	1215
Metal-founding machine	H. Tabor	347,447	Aug. 17	1365	363	36	731
Metal. Granulating molten	D. J. Riker	336,590	Feb. 23	2152	.....	34	842
Metal-grinding machine. Automatic	G. M. Griswold	344,777	June 29	2821	731, 732	35	1550
Metal into tubular forms. Drawing disks of	S. T. Wellman	348,079	Aug. 24	2283	611	36	911
Metal loop and catch	H. W. Cooley	347,471	Aug. 17	1397	372	36	738
Metal package or can	G. W. Knapp	339,063	Mar. 30	3005	794	34	1491
Metal pipes. Mechanism for making	E. M. Thompson	349,015	Sept. 14	659	170	36	1172
Metal plates. Machine for bending	J. H. Ferguson	338,944	Mar. 30	2822	745	34	1462
Metal plates of precious metals. Manufacturing compound	A. J. Lustig	352,475	Nov. 9	1053	283	37	663
Metal-polishing composition	Z. Jacobs and W. Horne	339,426	Apr. 6	449	.....	35	83
Metal rods. Drawing	B. C. Tilghman	345,816	July 20	1464	378	36	275
Metal rods. Machine for rounding and polishing	J. M. Perry and A. Gordon	346,943	Aug. 10	637	171	36	591
Metal rods or wire. Apparatus for reducing	J. Reese	338,362	Mar. 23	2005	528	34	1310
Metal-rolling dies. Making	G. F. Simonds	352,367	Nov. 9	918	246, 247	37	636
Metal-shearing machine	C. A. Bertsch	351,619	Oct. 26	2205	570	37	421
Metal shears	J. L. Osgood	346,170	July 27	1950	503	36	374
Metal. Soldering tubes of plated	A. J. Lustig	352,477	Nov. 9	1055	284	37	663
Metal strips. Apparatus for bending	W. Billings	352,909	Nov. 23	1637	440	37	790
Metal strips. Machine for coiling	C. C. Finneran	333,509	Jan. 5	20	6	34	6
Metal surfaces. Dressing and hardening	G. W. Miltimore	347,948	Aug. 24	2094	557, 558, 559	36	876
Metal. Transferring a precipitated or reduced	T. and J. Millot	345,442	July 13	898	.....	36	167
Metal tubes. Machine for polishing the interior of	S. W. Adams	335,266	Feb. 2	255	67, 68	34	486
Metal tubes. Manufacture of	A. Latch	334,531	Jan. 19	1470	394	34	286
Metal wheels. Making	J. R. Little	334,253	Jan. 12	1093	292	34	210
Metal wheels. Mechanism for manufacturing	J. R. Little	334,250	Jan. 12	1084	287, 288	34	209
Metal wheels. Mechanism for manufacturing	J. R. Little	334,251	Jan. 12	1088	289, 290, 291	34	210
Metal wheels. Mechanism for the manufacture of	J. R. Little	334,254	Jan. 12	1095	293	34	211
Metal wheels. Mechanism for the manufacture of	J. R. Little	337,172	Mar. 2	391	101	34	998
Metal-working machines. Tension mechanism for spindles of	J. Hartness	339,882	Apr. 13	1134	282	35	209
Metals. Apparatus for filtering and separating	J. P. Wetherill	334,207	Jan. 12	1015	270, 271	34	196
Metals. Apparatus for utilizing the expansive and contractive power of	F. E. Hainley	348,841	Sept. 7	402	109	36	1122
Metals. Filtering and separating	J. P. Wetherill	334,208	Jan. 12	1017	271	34	197
Metals from their matrices. Machine for eliminating	W. L. Card	347,868	Aug. 24	1974	523, 524	36	854
Metals. Preparation for cleaning and polishing	H. A. Arndt	352,438	Nov. 9	1009	.....	37	655
Metals. Preparing molds for the electro-deposition of	L. H. Rogers	340,460	Apr. 20	1941	499	35	361
Metals. Treating	E. Samuel	336,439	Feb. 16	1943	509	34	800
Metallic balls. Machine for making hollow	A. Bisbee	338,656	Mar. 23	2401	632	34	1379
Metallic plates. Tool for interlocking the edges of	E. Small	355,108	Dec. 28	2112	555, 556	37	1420
Metallic-shank machine	C. T. Stetson	352,495	Nov. 9	1074	289, 290	37	668
Metallic spring	W. Buckley	345,767	July 20	1400	363	36	264
Metallic strips. Machine for barbing	C. Rogers	340,619	Apr. 27	2180	574	35	410
Metallic wheel	J. R. Little	334,249	Jan. 12	1083	287	34	209
Metallic wheel	J. R. Little	334,252	Jan. 12	1092	291	34	210
Metallurgical furnace	W. Acheson	338,907	Mar. 30	2781	732	34	1452
Meter: *See* Ampère-meter. Electric meter. Electric-current meter. Electrical meter. Gas-meter. Grain-meter. Oscillating meter. Piston water-meter. Proportional meter. Volt-ampère meter. Water-meter.							
Methyl-blue from rosaniline. Manufacture of soluble	A. Kern	333,861	Jan. 5	497	.....	34	93
Metronome. Pocket	G. Lehr	342,446	May 25	2057	542	35	911
Mica sheets. Manufacture of compound	H. S. Lucas	335,598	Feb. 9	719	192	34	576
Micro-audiphone	F. M. Blodgett	333,724	Jan. 5	317	87	34	60
Micro-audiphone	F. M. Blodgett	345,625	July 6	337	82	36	60
Micrometer-gage	P. Clifford and J. Coupal	335,110	Feb. 2	13	4	34	443
Micrometer-gage	W. and A. W. Cross	342,245	May 18	1737	461	35	847
Micrometer-gage	G. B. Grant	334,770	Jan. 26	1801	479	34	356
Microphone	T. Wallace and O. A. En Holm	353,337	Nov. 30	2247	601	37	911
Microphone or apparatus for transmitting sounds by means of jets. Jet	C. A. Bell	336,082	Feb. 16	1417	375	34	707
Microphone-transmitter	W. R. Cole	352,806	Nov. 16	1496	404	37	553
Microscope	B. F. Allen	352,639	Nov. 16	1271	342, 343	37	710
Microscope	C. Fasoldt	334,009	Jan. 12	703	193	34	140
Microscopes. Glass slide for	C. W. Palmer	336,257	Feb. 16	1696	442	34	753
Microscopist's turn-table	E. H. Griffith	354,130	Dec. 14	709	190	37	1143
Microscopist's turn-table	C. Klippert	334,530	Jan. 19	1469	394	34	285
Middlings-purifier	O. L. Anderson	351,562	Oct. 26	2113	547	37	406
Middlings-purifier	H. J. Brinkman	351,307	Oct. 19	1711	449, 450	37	325
Middlings-purifier	E. T. Butler	337,370	Mar. 9	653	173	34	1054
Middlings-purifier	H. P. Chapman	345,954	July 20	1655	427	36	310

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Middlings-purifier	J. P. Deubel	352,810	Nov. 16	1500	404	37	753
Middlings-purifier	W. H. Likins	348,754	Sept. 7	295	79	36	1102
Middlings-purifier	U. H. Odell	350,385	Oct. 5	374	108	37	75
Middlings-purifier	R. A. Rew	345,177	July 6	519	133	36	95
Middlings-purifier	W. M. Shook	346,326	July 27	2174	558	36	416
Middlings-purifier	C. N. Smith	337,207	Mar. 2	432	113	34	1006
Middlings-purifier	C. H. Vickery	344,021	June 22	1787	460	35	1353
Middlings-purifiers. Eccentric for operating screens of	J. T. Walter	347,848	Aug. 24	1946	517	36	850
Middlings-purifiers. Feeding device for	G. F. Sherwood and C. A. Smith	339,023	Mar. 30	2951	781	34	1483
Middlings-purifiers. Feeding device for	C. A. Smith	339,029	Mar. 30	2961	783, 784	34	1484
Middlings-purifiers. Feeding mechanism for	C. A. Smith	339,028	Mar. 30	2959	782, 783	34	1484
Milk and cream can	G. W. Albaugh and W. H. Gibbs	340,409	Apr. 29	1877	482	35	350
Milk-can	C. L. Hall	347,174	Aug. 17	967	258	36	651
Milk-can	J. F. McMillin	352,831	Nov. 16	1524	411	37	758
Milk-can handle	T. F. Feeny	354,630	Dec. 21	1440	382	37	1282
Milk-cans. Lock-fastening for bottom hoops of	J. O'Neill	353,641	Nov. 30	2715	725	37	997
Milk-cans. Locking device for	E. Whitson	339,829	Apr. 13	1059	263	35	194
Milk-cooler	J. H. Bramkamp	347,085	Aug. 10	847	225	36	628
Milk-cooler	W. R. Fowler	334,767	Jan. 26	1798	478	34	355
Milk-cooler	W. R. Fowler	345,776	July 20	1411	366	36	267
Milk jar	E. Y. Judd	353,069	Nov. 23	1870	505	37	831
Milk or cream vats. Apparatus for regulating the temperature of	S. S. Jamison	348,016	Aug. 24	2188	582	36	893
Milk-pans. Ventilating-cover for	J. Davies	337,816	Mar. 16	1259	326	34	1165
Milk. Preserving	R. Ellin	349,574	Sept. 28	1423	368	36	1327
Milk-strainer	C. A. Dodge	347,581	Aug. 17	1548	412	36	767
Milk. Vacuum-evaporator for	R. Ellin	347,584	Aug. 17	1552	413	36	768
Milker. Cow-	A. A. Durand	335,182	Feb. 6	135	34, 35	34	465
Milker. Cow-	R. D. Roth	335,042	Jan. 23	2156	574	34	419
Milking-machine	J. H. Kirby	335,287	Feb. 6	284	75	34	491
Milking-machine	J. E. Nyrop	338,098	Mar. 12	1650	429	34	1236
Milking machine. Cow-	I. Beyer and A. E. Rohde	347,558	Aug. 17	1515	402, 403	36	760
Mill:							
See Attrition-mill.							
Band-saw mill.							
Bark-mill.							
Cane-mill.							
Chasing-mill.							
Clay-tempering mill.							
Coffee-mill.							
Coffee and spice mill.							
Crushing and grinding mill.							
Curd-mill.							
Fanning-mill.							
Grinding-mill.							
Hulling-mill.							
Pug-mill.							
Pulverizing-mill.							
Roller-mill.							
Roller grinding-mill.							
Rolling-mill.							
Saw-mill.							
Windmill.							
Mill-roll	H. Hungerford	346,817	Aug. 3	445	122, 123	36	547
Mills. Shifting device for	N. T. De Golyer	343,442	June 1	997	248, 249	35	1194
Mills. Tappet for stamp	C. A. Thies	347,661	Aug. 17	1684	448	36	792
Milling-machine	V. H. Ernst	341,437	May 1	641	175, 176, 177	35	621
Milling-machine	C. H. Phillips	343,846	June 12	1553	393, 394	35	1303
Milling machine. Key-seat-	J. S. Waterman	347,539	Aug. 17	1489	395	36	755
Milling-machines. Universal head for	F. Holz and G. A. Mueller	333,631	Jan. 3	172	47, 48	34	34
Milling-tool	C. Holly	346,103	July 2	1853	478	36	356
Millstone-bush	D. A. Bellows	335,418	Feb. 4	464	119	34	524
Millstone-dress	D. T. Atkins	346,015	July 20	1746	449	36	326
Millstone-dress	H. E. and C. W. Sylvester	336,533	Feb. 16	2068	543	34	822
Millstone or burr. Artificial	E. I. Heller	344,902	July 6	151	38	36	28
Mincing-machine	J. H. Shaw	337,631	Mar. 9	1018	262	34	1116
Mincing-machine	J. H. Shaw. (Reissue)	10,717	Apr. 23	2659	700	35	496
Mine-doors. Operating	P. F. Snyder	347,135	Aug. 10	913	243	36	641
Mine-ventilator	H. Davies	338,495	Mar. 23	2189	572, 573	34	1343
Miner's can	J. H. Enich	344,956	July 6	216	55	36	40
Miner's combination-box	J. H. Kirby	342,365	May 25	1946	514	35	892
Mines. Shaft and elevator for	J. R. Braidwood and S. Oswalt	337,734	Mar. 9	1143	296, 297	34	1137
Mines. Shutter or door for	G. W. Nation	350,599	Oct. 12	703	191	37	135
Mining and amalgamating gold. Apparatus for	C. Zimmerman	351,728	Oct. 26	2350	611, 612	37	449
Mining and other machines. Cutter for	B. A. Legg	340,792	Apr. 27	2418	637	35	453
Mining-cages, &c. Safety-stop for	J. W. Terman	341,522	May 11	764	205	35	655
Mining coal, &c. Boring-machine for	R. Stanley	345,551	July 13	1077	275	36	199
Mining-drill	W. H. Jenkins	335,599	Feb. 9	710	189	34	574
Mining-drill	T. H. Walton	333,798	Jan. 5	415	112	34	78
Mining-machine	B. A. Legg	342,614	May 25	2299	608, 609	35	955
Mining-machine	B. A. Legg	347,813	Aug. 24	1893	505	36	839
Mining-machine	J. Lucas	333,960	Jan. 5	632	173, 174	34	119
Mining-machine	S. McCarter	349,731	Sept. 28	1650	426	36	1376
Mining-machine	A. K. Rarig and J. Derthick	346,172	July 27	1954	504	36	374
Mining-machine	H. J. Richards	342,635	May 25	2330	615, 616	35	961
Mining-machine	S. H. Tacy	346,328	July 27	2177	559	36	417
Mining-machine	G. D. Whitcomb	335,328	Feb. 2	337	88, 89	34	502
Mining-machine	W. A. Wright	351,349	Oct. 19	1764	464	37	335

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Mining machine. Coal	F. L. Clerc	334,642	Jan. 19	1626	433	34	315
Mining machine. Coal	G. Ednie	355,153	Dec. 28	2177	574	37	1433
Mining machine. Coal	W. S. Gordon	345,500	July 13	979	248	36	181
Mining machine. Coal	T. Hudson, E. Rowe, and C. Heslop	345,696	July 20	1290	334	36	245
Mining machine. Coal	V. and S. C. Lechner	340,791	Apr. 27	2415	636 637	35	452
Mining machine. Coal	S. B. Stine and J. V. Smith	343,346	June 8	852	215	35	1169
Mining machine. Coal	J. Walton	355,284	Dec. 28	2368	622	37	1471
Mining machine. Coal	W. A. Wright	344,610	June 29	2608	676	35	1511
Mining wedge or tool for breaking up coal, &c.	C. Burnett	351,850	Nov. 2	178	48, 49	37	491
Mineral waters for transportation. Preparing	L. H. Barkdull	344,708	June 29	2727	.....	35	1533
Mirror and brush. Hand	W. Booth	351,958	Nov. 2	329	91	37	519
Mirror-backs from plastic material and the product thereof. Manufacturing	H. E. Miller	345,982	July 20	1693	437	36	317
Mirror-frame	G. Jones and H. W. Trognitz	351,515	Oct. 26	2048	531	37	393
Mirror. Hat	L. H. Ernest	342,291	May 18	1234	481	35	861
Mirror. Hat	S. J. Thiers	341,184	May 4	296	84	35	559
Mirror. Window	S. A. Phillips	345,074	July 6	385	97	36	70
Mirrors. Amalgam-table for the manufacture of	F. Schmitz	341,948	May 18	1341	359	35	774
Mirrors. Pivotal supports for	J. Penney	344,854	July 6	79	20	36	15
Mirrors. Support for shaving	F. W. Levering	340,968	Apr. 27	2652	699	35	494
Mirrors, transoms, &c. Pivotal support for	O. P. Breithut	341,636	May 11	927	246	35	686
Miter-box	W. L. Booyer	335,738	Feb. 9	922	242	34	613
Miter-box	C. W. Hinze	345,590	July 13	1130	288	36	209
Miter-box	L. H. Olmsted	339,455	Apr. 6	491	120	35	91
Miter-box	A. H. Soukup	346,240	July 27	2059	528	36	394
Miter-box	C. A. Williams	352,846	Nov. 16	1545	417	37	763
Miter-frame clamp	G. R. Hammond	334,435	Jan. 19	1337	362	34	262
Mitering-machine	J. G. Leffingwell	334,247	Jan. 12	1076	285	34	208
Mitten	G. P. Ross	346,070	July 20	1813	468	36	338
Mitten and knitting the same	J. Collins	353,020	Nov. 23	1792	481	37	817
Mitten. Reversible	G. P. Ross	334,900	Jan. 26	1961	521	34	384
Mixer: *See* Oil-mixer.							
Mixing and agitating machine	A. C. McEwen	342,116	May 18	1579	421	35	818
Mixing and kneading machine	C. Osterwalder	346,413	July 27	2297	591 592	36	439
Mixing-machine	O. R. Chase	343,565	June 15	1168	294	35	1234
Mixing, sifting, and cleaning machine	J. and J. A. Baker	343,789	June 15	1482	372	35	1289
Mold: *See* Brick-mold. Glass-mold. Bullet-mold. Glass-blower's mold. Butter-mold. Glass-maker's mold. Candy-whistle mold. Ingot-mold. Carbonizing-mold. Sad-iron mold. Casting-mold. Soap-mold. Cigar-mold. Type-casting mold.							
Mold	J. B. Odell	333,661	Jan. 5	213	58	34	41
Mold and white film on fermentable and fermented liquids. Prevention of the formation of	J. P. A. Vollmar	351,299	Oct. 19	1701	.....	37	323
Mold for walling wells, &c. Concrete	E. L. Ransome	349,058	Sept. 14	719	183 184	36	1182
Molds. Apparatus for forming	J. Kinzer	347,940	Aug. 24	2085	553 554	36	874
Molds. Device for forming beads in sand	C. B. Isbester	344,657	June 29	2668	692	35	1523
Molds. Flask-weight for	A. Smith	342,882	June 1	153	39	35	1034
Molds. Material for making	R. G. Hanford, Jr	354,316	Dec. 14	986	262	37	1193
Molded articles. Composition of matter for making	S. M. Allen	337,472	Mar. 9	825	.....	34	1081
Molder's facing	J. J. Riddle	335,628	Feb. 9	761	.....	34	583
Molder's flask	H. Tabor	347,448	Aug. 17	1366	363	36	732
Molder's pattern-plate	J. R. Davies	334,753	Jan. 26	1782	474	34	352
Molding	J. and L. Schram	352,360	Nov. 9	913	245	37	635
Molding. Cloth-covered	J. Maxwell	337,008	Mar. 2	176	46	34	957
Molding flower-pots. Machine for	H. Ammenheuser	334,406	Jan. 19	1299	351 352	34	255
Molding-machine	S. C. Burris	353,285	Nov. 30	2175	582 583	37	898
Molding-machine	R. Savage	349,815	Sept. 28	1765	456 457	36	1398
Molding machine. Rope	W. A. Parmelee	346,679	Aug. 3	988	79	36	517
Molding machine. Sand	W. W. Drummond	354,108	Dec. 14	670	180	37	1137
Molding machine. Sand	M. R. Moore	346,379	July 27	2241	574	36	429
Molding machine. Sand	M. R. Moore	346,380	July 27	2243	575	36	429
Molding machine. Sand	M. R. Moore	346,381	July 27	2244	575	36	430
Molding machine. Sand	M. R. Moore	346,382	July 27	2248	575	36	430
Molding-machine. Sand	A. Rice	340,362	Apr. 20	1823	467	35	340
Molding machine. Sand	A. Rice	353,712	Dec. 7	88	23, 24	37	1022
Molding machine. Sand	S. P. M. Tasker	353,832	Dec. 7	252	67	37	1052
Molding machine. Variety	S. J. Shimer	353,510	Nov. 30	2504	668	37	959
Molding machine. Wood	W. J. Smith	347,970	Aug. 24	2131	568	36	881
Molding-machines. Cutter for	H. C. Tunis	337,353	Mar. 2	630	166	34	1042
Molding-machines. Side-spring for	C. Reafstahl	354,229	Dec. 14	853	226	37	1169
Molding ornamental work in papier-maché and other material. Apparatus for	J. Cardona	340,555	Apr. 27	2087	538 539	35	395
Molding-polisher	S. I. Phelps	337,515	Mar. 9	879	223	34	1090
Molding press. Pulley-pattern	J. C. Wheeler and M. Cokely	342,239	May 18	1728	459	35	846
Moldings. Machine for buffing	W. and J. Schmitt	353,972	Dec. 7	470	128	37	1092
Moldings. Machine for making picture	S. A. Perry	341,049	May 4	104	30, 31	35	524
Moldings. Making ornamental corner	F. Mankey	342,025	May 18	1444	387	35	792
Moldings. Manufacturing ornamental	F. Mankey	347,361	Aug. 17	1236	329	36	708
Mole and gopher trap	F. Stanke	339,707	Apr. 13	902	222	35	165
Mole-trap	L. H. Olmsted	346,218	July 27	2020	521	36	387
Mole-trap	J. Reeder	353,502	Nov. 30	2496	666	37	957
Money-changer	C. B. Hopkins	339,986	Apr. 13	1271	317 318	35	233

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Money-packages. Safety-case for	E. J. Brooks	354,459	Dec. 14	1172	313, 314	37	1228
Monument	J. H. Brubaker	335,991	Feb. 9	1271	337	34	674
Monument	T. Hinston	337,769	Mar. 9	1185	209	34	1145
Monument	A. H. Miller	352,422	Nov. 9	988	266	37	657
Mop	T. Moored	344,454	June 29	2391	616	35	1470
Mop	E. F. Wilson	335,005	Jan. 26	2100	559	34	410
Mop. Dish-washing	G. W. Mason	333,650	Jan. 5	199	55	34	39
Mop-holder	G. W. Fuller	350,240	Oct. 5	198	56	37	41
Mop-holder	J. McWilliams	335,295	Feb. 2	295	78	34	493
Mop-holder	C. Suess	354,949	Dec. 28	1892	499	37	1379
Mop washing and wringing machine	E. W. Allen	348,609	Sept. 7	108	31	36	1067
Mop-wringer	H. Flesher	337,676	Mar. 9	1071	276	34	1125
Mop-wringer	A. A. Frasier	339,755	Apr. 13	968	239	35	176
Mop-wringer	J. W. Gleason	347,590	Aug. 17	1559	414	36	770
Mop-wringer	D. Lynch	337,374	Mar. 2	528	139	34	1024
Mop-wringer	C. Miller	348,033	Aug. 24	2210	590	36	897
Mop-wringer	L. Sargent and C. Chase	339,216	Apr. 6	142	38	35	27
Mopping and scrubbing device	T. Williams	343,938	June 15	1665	427	35	1326
Mordant	C. N. Waite	341,294	May 4	464	.....	35	589
Mordanting	B. Finkelstein	352,236	Nov. 9	751	.....	37	604
Mortar or composition for coating walls	M. Turley	348,644	Sept. 7	153	.....	36	1075
Mortise-lock	F. J. Biggs	353,196	Nov. 23	2057	549	37	869
Mortises. Machine for marking or laying out	J. M. Maynard	348,028	Aug. 24	2205	588	36	895
Mortising and boring machine	H. A. Axtell	343,217	June 8	643	160	35	1132
Mortising, boring, molding, rosette-cutting, &c	R. T. White	345,010	July 6	308	77, 78	36	56
Mortising-machine	A. J. Heise	338,967	Mar. 30	2851	752	36	1466
Mortising-machine	I. W. Johnson	345,637	July 13	1198	310	36	222
Mortising-machine	M. Rothschild	344,868	July 6	105	26	36	19
Mosquito-canopy	R. Mitchell	338,428	Mar. 23	2100	550	34	1327
Mosquito-canopy for bedsteads	N. Petersen	341,274	May 4	422	115	35	583
Mosquito-screen attachment for hammocks	P. N. Nelmes	348,685	Sept. 7	214	56	36	1086
Motion. Apparatus for converting	J. F. Loomis and B. E. Wing	352,878	Nov. 16	1589	429	37	771
Motion by helical surfaces. Mechanism for converting	G. Weickum	346,335	July 27	2184	560	36	418
Motion. Device for converting	W. P. Allen	351,560	Oct. 26	2109	547	37	405
Motion. Device for converting	E. Brüncker	346,397	July 27	2271	582	36	434
Motion. Device for converting	W. J. Cassaday	346,107	Aug. 24	2317	621	36	917
Motion. Device for converting	P. Deissler	342,586	May 25	2253	598	35	948
Motion. Device for converting	J. M. Flint	337,568	Mar. 9	945	241	34	1102
Motion. Device for converting	J. E. Gillespie	349,429	Sept. 21	1224	317	36	1288
Motion. Device for converting	W. L. Kling	337,962	Mar. 16	1458	378	34	1201
Motion. Device for converting	J. N. Powell	335,147	Feb. 2	67	18	34	453
Motion. Device for converting	G. W. Richardson	338,789	Mar. 30	2602	685	36	1420
Motion. Device for converting	S. L. Shiflenberger	334,989	Jan. 26	2074	554	34	405
Motion. Device for converting	S. C. Shepard	351,534	Oct. 26	2077	538	37	399
Motion. Device for converting	W. H. Wood	349,775	Sept. 28	1713	441	36	1388
Motion. Device for converting reciprocating into rotary	W. G. Adams	336,978	Mar. 2	126	34	34	948
Motion. Device for converting reciprocating into rotary	R. B. Holt and I. N. Walton	335,702	Feb. 9	866	228, 229	34	602
Motion. Device for converting reciprocating into rotary	A. C. and C. Monger	337,973	Mar. 16	1475	383	34	1204
Motion. Device for converting reciprocating into rotary	G. N. Tibbles	346,961	Aug. 10	659	176	36	595
Motion. Device for converting reciprocating into rotary grip and slip	W. T. Kosinski	334,392	Jan. 12	1271	343	34	243
Motion. Device for imparting and arresting	W. J. Snider	354,663	Dec. 21	1489	395	37	1290
Motion. Device for transmitting	G. R. Mitchell	341,596	May 11	869	231, 232	35	675
Motion. Machinery for transmitting and arresting	W. Lewis	352,623	Nov. 16	1251	338	37	706
Motion. Mechanism for converting	J. J. Collins	347,230	Aug. 10	1041	278	36	664
Motion. Power for converting	Z. R. Ferguson	340,664	Apr. 27	2243	589, 590	35	420
Motion-transmitter. Differential	C. F. W. Bödecker	352,512	Nov. 16	1098	296, 297	37	680
Motive power. Applying	D. L. Masters and J. B. Corey	340,229	Apr. 20	1626	412	35	303
Motive power. Employing steam for producing	M. P. W. Boulton	345,026	July 6	328	823	36	60
Motive-power engine	P. W. Willans	338,378	Mar. 23	2031	533	34	1314
Motor: *See* Car-motor. Mechanical motor. Churn-motor. Petroleum and gas motor. Electric motor. Pump-motor. Electro-dynamic motor. Rotary motor. Spring-motor. Electro-magnetic motor. Steam-motor. Vacuum-motor. Fluid-pressure motor. Vessel-motor. Hydraulic motor. Water-motor. Liquid-motor. Weight-motor. Logging-motor.							
Motor	E. B. Benham	341,828	May 11	1181	316	35	736
Motor	B. Elmore	347,479	Aug. 17	1407	375	36	749
Motor	E. B. Evans	354,829	Dec. 21	1718	455	37	1335
Motor	A. J. and M. I. Flowers	349,638	Sept. 21	1499	388	36	1343
Motor	I. S. Goldman	347,705	Aug. 17	1741	464	36	802
Motor	J. M. Hall	342,087	May 18	1545	413	35	811
Motor	G. Haydn	338,408	Mar. 23	2072	543	34	1321
Motor	G. W. Houston and E. F. Mulkey	349,276	Sept. 14	1008	257	36	1238
Motor	F. P. Kremer	340,586	Apr. 27	2134	551	35	403
Motor	W. Lay	350,257	Oct. 5	215	62	37	45
Motor	J. B. Miles	334,263	Jan. 12	1107	296	34	213
Motor	R. E. L. Roberts	347,890	Aug. 24	2009	532	36	859
Motor	J. K. Sample	353,006	Nov. 23	1774	477	37	814
Motor	O. Smith	351,000	Oct. 19	1302	342	37	251

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Motor	G. Sutro	354,667	Dec. 21	1496	397	37	1292
Motor-engine	G. Daimler	349,983	Sept. 28	1987	513	36	1442
Motor-engine	A. Jacobs	351,639	Oct. 26	2238	579	37	428
Motor-engine worked by combustible gases or petroleum.	G. Daimler	334,109	Jan. 12	855	235	34	166
Motors. Brake for	C. Lichtenwalner	346,556	Aug. 3	133	36	36	485
Motors. Electrical stopping device for	E. Leigh and T. Townend	342,872	June 1	138	34	35	1031
Mouse-trap	L. H. Gear	338,399	Mar. 23	2062	540	34	1319
Mouth and throat illuminator. Electric	L. F. Criado	336,510	Feb. 16	2034	534	34	816
Movement-cure apparatus	D. Wark	349,019	Sept. 14	663	171	36	1172
Movement-cure apparatus	W. F. Worthmeyer	340,533	Apr. 20	2052	527	35	381
Mower	E. Dickinson	334,738	Jan. 26	1788	475	34	353
Mower	R. H. Dixon and G. H. Carver	346,538	Aug. 3	113	30	36	482
Mower	W. Van Wyck	353,993	Dec. 7	499	135	37	1097
Mower	J. D. Wilber	346,007	July 20	1731	446	36	323
Mower and reaper	R. Butler	354,500	Dec. 14	1232	330	37	1238
Mower and reaper knife grinder	J. C. Neff	342,125	May 18	1589	424	35	820
Mower and reaper knives. Grinding-machine for	E. H. Fenton	342,789	June 1	21	6	35	1010
Mower attachment. Lawn-	J. Given	355,074	Dec. 28	2061	541	37	1410
Mower-knives. Device for forming	G. M. Williams	340,024	Apr. 13	1328	332	35	243
Mower. Lawn-	D. Arndt	338,132	Mar. 16	1692	440	34	1245
Mower. Lawn-	G. Campbell	339,616	Apr. 13	766	190	35	141
Mower. Lawn-	S. R. Campbell and C. H. Finch	338,479	Mar. 23	2164	566	34	1339
Mower. Lawn-	C. W. Cheney	342,900	June 1	174	44	35	1037
Mower. Lawn-	H. A. Groux	336,639	Feb. 23	2222	580	34	854
Mower. Lawn-	C. H. Paxson	351,791	Nov. 2	88	24	37	474
Mower. Lawn-	T. J. Perrin	340,240	Apr. 20	1640	415, 416	35	305
Mower. Lawn-	T. Rogers	333,549	Jan. 5	69	20	34	16
Mower. Lawn-	T. Rogers	333,550	Jan. 5	70	20	34	16
Mower. Lawn-	G. R. Tyrrell	355,234	Dec. 28	2302	606	37	1458
Mower. Lawn-	G. M. Williams	346,004	July 20	1727	445	36	323
Mower. Lawn-	O. Zistel	347,311	Aug. 10	1160	310	36	687
Mower-lifting attachment	A. C. McKendree	335,764	Feb. 9	959	254	34	618
Mower track-clearer	J. M. Patterson and E. A. Himebauch.	335,769	Feb. 9	967	256	34	620
Mowers and reapers. Cutting apparatus for	T. J. Forshee	350,456	Oct. 5	491	138	37	94
Mowers and reapers. Cutting apparatus for	D. M. Keller	349,105	Sept. 14	788	199	36	1195
Mowers and reapers. Endless-chain sickle for	S. S. Turner	352,963	Nov. 23	1708	459	37	801
Mowers and reapers. Pitman-rod connection for	R. H. Dixon	344,034	June 22	1808	465	35	1357
Mowers. Cutter-bar connection for	W. H. De Vault	350,531	Oct. 12	602	166	37	116
Mowing-machine	W. B. Cox and J. McDonough	341,374	May 4	566	156	35	607
Mowing-machine	B. Elmore	334,762	Jan. 26	1791	476	34	353
Mowing-machine	M. Garvin and W. J. Clokey	346,277	July 27	2103	541	36	403
Mowing-machine	J. Gilchrest	347,481	Aug. 17	1411	375, 376	36	741
Mowing-machine	W. A. Kirby	339,192	Apr. 6	105	29	35	22
Mowing-machine	W. A. Morgan, Jr	339,068	Mar. 30	3010	795, 796	34	1492
Mowing-machine	G. L. K. Morrow	339,997	Apr. 13	1291	323	35	237
Mowing-machine	J. Pine	349,740	Sept. 28	1660	429	36	1379
Mowing-machine	A. C. Rogers	348,239	Aug. 31	2522	677, 678	36	960
Mowing-machine	E. F. Stoddard and J. M. Rossell	336,267	Feb. 16	1707	445	34	755
Mowing-machine	E. M. Vandewater	336,451	Feb. 16	1963	514	34	803
Mowing-machine knife	E. H. Sellers	354,747	Dec. 21	1612	426	37	1314
Mowing-machine knives. Device for sharpening	C. G. Poulson	343,726	June 15	1409	351	35	1275
Mowing-machine knives. Machine for grinding	R. Dutton	342,290	May 18	1814	480, 481	35	860
Mowing-machine knives. Machine for grinding	W. S. Williams	353,908	Dec. 7	374	99, 100	37	1075
Mowing-machines. Clutch mechanism for	G. G. Hunt	354,906	Dec. 28	1828	483	37	1367
Mowing-machines. Finger-bar for	G. A. Weaver	343,618	June 15	1245	313	35	1247
Mowing-machines. Grain-wheel for	H. Kuschenek	346,443	July 27	2343	602	36	447
Mowing-machines. Shoe for	G. H. Bartlett	340,083	Apr. 20	1411	357	35	263
Mowing-machines. Shoe for	N. O. Starks	340,959	Apr. 27	2639	695, 696	35	492
Mowing-machines. Sickle-driver attachment for	J. Walker and H. T. Caulk	334,828	Jan. 26	1871	498	34	368
Mowing-machines. Track-cleaner or divider for	J. J. Schuett	343,925	June 15	1649	422	35	1322
Mucilage-bottle	W. H. Redington	336,945	Mar. 2	85	23	34	942
Mucilage-holder	C. S. Pinkham	334,046	Jan. 12	763	209	34	150
Muff	M. Kosminski	347,879	Aug. 24	1994	528	36	856
Muffs. Device for blocking	J. A. Spitzer	344,752	June 29	2792	723	35	1544
Muffs. Making and blocking	J. A. Spitzer	342,049	May 18	1477	395	35	798
Muffs for vessels. Sanitary	P. S. Sowers	349,010	Sept. 14	654	169	36	1171
Multi-cylinder engine	F. Wynne	341,984	May 18	1388	370, 371	35	782
Multiple-cylinder engine	F. Wynne	354,615	Dec. 21	1421	376, 377	37	1278
Multiple switch-boards. Test-plug for	C. E. Scribner	345,326	July 13	732	185	36	138
Multiplication and other arithmetical processes. Apparatus for	E. Halsey	344,181	June 22	2018	516, 517	35	1395
Multiplication of numbers. Apparatus for facilitating the	J. V. Charpantier	343,796	June 15	1491	376	35	1291
Music. Apparatus for use in teaching	W. L. Fitch	355,261	Dec. 28	2335	614, 615	37	1465
Music-box	A. A. Lateulère	350,256	Oct. 5	214	61	37	44
Music-box	H Zumsteg	355,244	Dec. 28	2314	609	37	1461
Music-boxes. Automatic check for	A. Sueur	343,778	June 15	1471	369	35	1287
Music-boxes. Zither attachment for	A. Sueur	342,979	June 1	284	74	35	1058
Music-case	N. Lochbaum	353,794	Dec. 7	196	53	37	1043
Music case. Sheet-	L. Cappiani	346,530	Aug. 3	103	28	36	480
Music-folios, &c. Clip for leaves of	S. W. Valentine	337,639	Mar. 9	1029	264	34	1118
Music-holder	P. J Kearney	339,897	Apr. 13	1149	286	35	219

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Music-holder	D. E. Smith	343,403	June 8	942	235	35	1186
Music-leaf turner	E. Barraclough	348,098	Aug. 24	2308	618	36	915
Music-leaf turner	W. H. Fesler	352,310	Nov. 9	851	229	37	622
Music-leaf turner	T. H. Garland	348,323	Aug. 31	2629	709	36	982
Music-leaf turner	J. Herron	333,519	Jan. 5	33	9	34	9
Music-leaf turner	C. P. Jones	343,663	June 15	1297	326	35	1256
Music-leaf turner	A. Kemper	351,604	Oct. 26	2187	565	37	418
Music-leaf turner	H. W. Pool	338,103	Mar. 16	1658	430, 431	34	1238
Music-leaf turner	T. F. Pye and C. D. Flint	343,966	June 15	1710	437	35	1333
Music-leaf turner	J. R. Saye	351,800	Nov. 2	98	27	37	476
Music-leaf turner	J. Van Eps	349,540	Sept. 21	1378	357	36	1318
Music-leaf turner	L. L. White	340,749	Apr. 27	2364	623	35	441
Music-rollers. Machine for making and inserting staples in	H. B. Morris	339,679	Apr. 13	860	211, 212	35	158
Music-satchel	E. Thayer	338,569	Mar. 23	2281	598	34	1358
Music-sheet for mechanical musical instruments. Perforated	G. B. Kelly	350,747	Oct. 12	910	244	37	173
Music-sheet. Perforated	G. B. Kelly	350,748	Oct. 12	911	244, 245	37	173
Music-stand. Folding	O. S. Vaughan	340,391	Apr. 20	1856	477	35	346
Music-strips. Making	R. Butterworth	337,304	Mar. 2	571	151	34	1031
Musical box	L. Campiche	336,210	Feb. 16	1623	424	34	742
Musical box	P. Lochmann	346,757	Aug. 3	378	104	36	535
Musical box. Picture-exhibiting	C. E. Juillerat	355,089	Dec. 28	2087	548	37	1415
Musical boxes. Automatic check for	C. E. Juillerat	343,767	June 15	1460	365	35	1285
Musical boxes. Automatic safety-check for	C. H. Jacot	337,585	Mar. 9	964	247	34	1106
Musical cigar show-box	A. Ward	342,986	June 1	290	76	35	1059
Musical instrument	M. Gally	344,646	June 29	2655	688	35	1520
Musical-instrument actions. Pneumatic engine for	F. Stone	355,229	Dec. 28	2294	605	37	1457
Musical instrument. Brass	D. O'Hare	340,813	Apr. 27	2447	644	35	458
Musical instrument. Mechanical	H. Burckas	343,795	June 15	1489	374, 375	35	1291
Musical instrument. Mechanical	J. H. Chase	335,272	Feb. 2	263	69	34	487
Musical instrument. Mechanical	F. E. P. Ehrlich	335,903	Feb. 9	1163	309, 310	34	656
Musical instrument. Mechanical	F. E. P. Ehrlich	338,496	Mar. 23	2189	573	34	1344
Musical instrument. Mechanical	F. E. P. Ehrlich	343,116	June 1	494	125	35	1095
Musical instrument. Mechanical	F. E. P. Ehrlich	349,634	Sept. 21	1493	387	36	1342
Musical instrument. Mechanical	M. Gally	343,900	June 15	1619	412, 413	35	1316
Musical instrument. Mechanical	M. Gally	346,152	July 27	1927	497, 498	36	369
Musical instrument. Mechanical	M. Gally	351,171	Oct. 19	1526	400	37	293
Musical instrument. Mechanical	M. Gally	351,172	Oct. 19	1528	401	37	293
Musical instrument. Mechanical	H. F. Hambruch	352,054	Nov. 2	469	127	37	547
Musical instrument. Mechanical	P. H. Härtling	340,876	Apr. 27	2531	666	35	472
Musical instrument. Mechanical	O. P. Lochmann	350,541	Oct. 12	615	170, 171	37	119
Musical instrument. Mechanical	H. Lorenz	333,645	Jan. 5	192	52	34	38
Musical instrument. Mechanical	R. W. Pain	335,534	Feb. 2	619	162	34	550
Musical instrument. Mechanical	E. G. Sturm	353,434	Nov. 30	2393	639	37	939
Musical instrument. Mechanical	J. E. Treat	335,549	Feb. 2	637	167, 168	34	554
Musical instrument. Mechanical	A. Wales	339,237	Apr. 6	175	46	35	33
Musical instrument. Stringed	M. W. White	353,277	Nov. 23	2163	579	37	889
Musical-instrument valve	J. H. Chase	335,271	Feb. 2	263	69	34	487
Musical instrument. Wind	J. C. St. John	341,181	May 4	292	83	35	558
Musical instruments. Air-engine for mechanical	W. D. Parker	355,201	Dec. 28	2245	592	37	1447
Musical instruments. Key-board attachment for	R. T. Smith	346,237	July 27	2049	527	36	393
Musical instruments. Key-board attachment for	R. T. Smith	346,238	July 27	2051	527, 528	36	393
Musical instruments. Key-board for	E. Stroud	351,477	Oct. 26	1995	518	37	382
Musical instruments. Key-board for	W. T. Weir	350,788	Oct. 12	968	259	37	183
Musical instruments. Key-board for	W. T. Weir	352,965	Nov. 23	1711	459, 460	37	802
Musical instruments. Key-board player for	R. T. Smith	346,236	July 27	2045	527	36	393
Musical instruments. Key-indicator for	E. P. Carpenter and M. S. Wright	347,686	Aug. 17	1714	457	36	797
Musical instruments. Manufacture of reeds for	J. D. Whitney	338,007	Mar. 16	1526	396	34	1213
Musical instruments. Pneumatic action for	M. Gally	351,173	Oct. 19	1530	401	37	293
Musical instruments. Pneumatic action for	F. Stone	353,894	Dec. 7	351	94	37	1071
Musical instruments. Reed for	A. H. Hammond	351,049	Oct. 19	1368	359	37	263
Musical instruments. Reed-plate for	F. J. Brand	338,336	Mar. 23	1964	517	34	1303
Musical instruments. String-holder for	F. Schwarzer	351,406	Oct. 26	1888	492	37	362
Musical instruments. Transposing key-board for	A. Larsson	339,906	Apr. 13	1162	289	35	214
Musical instruments. Transposing key-board for	M. Philipps	354,733	Dec. 21	1586	419	37	1309
Musical-key indicator	O. H. Goodwin	337,320	Mar. 2	593	156	34	1065
Musical reeds. Apparatus for bending and voicing	E. H. White	336,368	Feb. 16	1848	485	34	782
Musician's exercising device	J. Cæsar	348,379	Aug. 31	2707	727	36	998
Musician's exercising device	A. K. Virgil	344,462	June 29	2400	618	35	1471
Musician's exercising key-board	A. K. Virgil	344,464	June 29	2403	619	35	1472
Musicians' finger-exercising devices. Speaking-spring for	A. K. Virgil	344,463	June 29	2402	610	35	1472
Mustache-curler	J. B. Sultzer	346,831	Aug. 3	469	128	36	552
Mute for stringed instruments	C. F. Albert	335,872	Feb. 9	1105	293	34	647
Muzzle	E. B. Webber	345,749	July 20	1367	356	36	259
Muzzle. Animal	J. A. Saunders	349,408	Sept. 21	1195	309	36	1282
Muzzle. Stock	A. Wesson	348,438	Aug. 31	2792	750	36	1014
Nail. *See* Boot and shoe nail. Shoe-nail. Cut nail. Wire nail.							
Nail	C. C. Doten	335,181	Feb. 2	135	34	34	465
Nail	D. P. Durham	346,148	July 27	1923	496	36	369
Nail	H. W. Libbey	354,154	Dec. 14	748	201	37	1149

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Nail	F. W. Wheeler	335,983	Feb. 9	1262	335	34	673
Nail-blank	J. T. Jones	339,189	Apr. 6	103	28	35	21
Nail-blank	J. T. Jones	339,190	Apr. 6	103	29	35	21
Nail-capping machine	J. M. Ellis	336,994	Mar. 2	148	40	34	952
Nail-cutting-machine knife	Z. W. Dean	355,065	Dec. 28	2051	539	37	1408
Nail-cutting-machine knife	W. D. Young	355,113	Dec. 28	2118	557	37	1422
Nail-driving apparatus	T. Fowler	345,680	July 20	1272	329	36	241
Nail-driving machine	T. Fowler	345,679	July 20	1270	329	36	241
Nail-driving machine	E. L. Wheeler	334,552	Jan. 19	1504	403	34	291
Nail-extractor	J. Chantrell	346,426	July 27	2314	596	36	442
Nail-extractor	P. F. King	339,993	Apr. 13	1287	321	35	236
Nail-extractor and box-opener. Combined	O. S. Harmon	344,653	June 29	2665	691	35	1522
Nail-feeding mechanism	C. D. Rogers	334,898	Jan. 26	1956	521	34	384
Nail-furnace	G. Rowe	345,260	July 6	636	162	36	116
Nail-head. Ornamental	J. W. Flynn	354,123	Dec. 14	694	185	37	1141
Nail-holder	A. L. Wheelock	337,905	Mar. 16	1372	356	34	1186
Nail-holding receptacle	P. F. Spath and A. L. Remick	353,985	Dec. 7	486	132	37	1095
Nail-machine	L. J. Hirt	341,658	May 11	955	253, 254	35	691
Nail machine. Cut-	J. Altmeyer	351,304	Oct. 19	1708	448, 449	37	325
Nail machine. Duplex wire-	G. Qurin	349,054	Sept. 14	712	182	36	1181
Nail machine. Wire-	G. N. Cooper	333,730	Jan. 5	333	89	34	60
Nail machine. Wire-	J. W. Court	346,467	Aug. 3	20	6	36	464
Nail machine. Wire-	H. T. Crepeau	354,828	Dec. 21	1716	454, 455	37	1335
Nail machine. Wire-	D. Evans	348,156	Aug. 24	2385	640, 641	36	930
Nail machine. Wire-	T. Fowler	350,357	Oct. 5	340	97, 98	37	69
Nail machine. Wire-	B. H. Gedge	342,001	May 18	1406	375	35	785
Nail machine. Wire-	H. B. Lester	334,248	Jan. 12	1077	285, 286	34	208
Nail machine. Wire-	C. Lovell	340,887	Apr. 27	2545	670	35	474
Nail machine. Wire-	E. S. Morton	334,604	Jan. 19	1570	419	34	305
Nail machine. Wire-	E. B. Parkhurst and C. Lovell	345,534	July 13	1046	266, 267	36	194
Nail machine. Wire-	F. Philips	353,585	Nov. 30	2613	697	37	980
Nail machine. Wire-	W. Taylor	352,164	Nov. 9	656	173, 174, 175	37	586
Nail machine. Wire-	M. G. Voight, Sr	345,745	July 20	1364	355	36	258
Nail machine. Wire-	M. G. Voight, Sr	345,746	July 20	1365	355	36	258
Nail machines. Die for wire-	C. Lovell	340,886	Apr. 27	2544	669	35	474
Nail-machines. Forging-roller for	G. E. Michon	354,648	Dec. 21	1466	389	37	1287
Nail making and distributing machine	F. F. Raymond, 2d	347,960	Aug. 24	2117	564, 565	36	879
Nail making and distributing machine	A. O. Towns and F. F. Raymond, 2d	346,137	July 27	1901	492, 493	36	364
Nail-making machine	F. F. Raymond, 2d	342,929	June 1	218	56	35	1045
Nail-making machine	F. F. Raymond, 2d	344,985	July 6	266	67, 68, 69	36	48
Nail or spike	W. H. Perry	333,889	Jan. 5	532	144	34	100
Nail-plate feeder	R. Hersey	354,980	Dec. 28	1926	509, 510	37	1386
Nail-plate feeder	G. T. Harden	346,746	Aug. 3	368	99	36	533
Nail-plate furnace	S. Bunn	334,216	Jan. 12	1027	273	34	199
Nail-receptacle	W. Mathews	352,925	Nov. 23	1655	445	37	793
Nail. Wire	H. K. Jones	348,126	Aug. 24	2341	628	36	922
Nail. Wire	T. J. Sloan	348,589	Sept. 7	77	23	36	1062
Nails. Die for barbing wire	R. Berchtold	343,425	June 8	967	241	35	1109
Nails. Die for making wire	B. H. Gedge	338,730	Mar. 30	2527	668	34	1407
Nails. Machine for cutting	R. Dahlström	347,923	Aug. 24	2059	546	36	869
Nails. Machine for making wire	J. T. Kennedy	339,901	Apr. 13	1155	287	35	213
Nails. Machine for making wire	J. E. Kimball and W. Avery	333,863	Jan. 5	500	136a, 137	34	93
Nails. Machine for pointing wire	A. Newton	350,837	Oct. 12	1046	280	37	198
Nails. Making cut	H. Weeks	335,260	Feb. 2	247	65	34	485
Nails. Manufacture of ornamental	J. F. Thayer	334,625	Jan. 19	1603	427	34	310
Nails. Manufacture of screw-	H. K. Jones	335,131	Feb. 2	46	12	34	449
Nails. Wire stock for	H. K. Jones	335,133	Feb. 2	49	13	34	449
Nailing-jack	J. Clark	342,579	May 25	2243	595	35	945
Nailing-machine	A. Eppler, Jr	354,052	Dec. 7	581	157, 158, 159	37	1112
Nailing-machine	W. C. Evans and J. P. Smith	350,122	Oct. 5	32	9	37	9
Nailing-machine	F. F. Raymond, 2d	342,039	May 18	1462	391, 392	35	796
Nailing-machine	H. Weeks	341,193	May 4	305	87	35	561
Nailing-machine	H. Weeks and E. Woodward	335,261	Feb. 2	248	65, 66	34	485
Name and drop-letter plate	W. E. Sparks	339,819	Apr. 13	1046	259	35	191
Name-plates. Adjustable inscription for	D. A. Brown and J. W. Roller	355,132	Dec. 28	2149	566	37	1428
Napkin-pin	A. McDonald	339,674	Apr. 13	855	209	35	157
Napkin-ring	S. E. Barney	343,688	June 15	1342	335	35	1263
Napkin-ring	C. F. Monroe	345,164	July 6	504	120	36	92
Navigating in foggy weather	F. D. Torre	350,608	Oct. 12	717	193	37	138
Navigation. Disclosing obstacles to	F. D. Torre	350,617	Oct. 12	1016	272	37	192
Neck-wear	L. Eschner	353,486	Nov. 30	2466	659	37	952
Neck-wear frame	E. C. Cooke	334,352	Jan. 12	1228	330	34	235
Neck-wear retainer	R. B. Helliwell	333,754	Jan. 5	357	96	34	67
Neck-wear. Reversible ruching for ladies'	A. Boehm	349,297	Sept. 21	1039	264	36	1251
Necktie	M. K. Burger	340,478	Apr. 20	1970	507	35	366
Necktie attachment	B. B. Scully	354,249	Dec. 14	884	233, 234	37	1174

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Necktie-fastener	A. J. Ash	349,832	Sept. 28	1791	463	36	1404
Necktie fastener	J. Ballou	352,109	Nov. 9	563	149	37	571
Necktie-fastener	G. D. Burton	340,481	Apr. 20	1974	507 508	35	367
Necktie-fastener	A. Cifre	336,212	Feb. 16	1626	424	34	742
Necktie-fastener	B. M. Fish	338,257	Mar. 23	1858	488	34	1285
Necktie-fastener	B. M. Fish	342,195	May 18	1669	445	35	834
Necktie-fastener	B. M. Fish	343,336	June 8	673	167	35	1137
Necktie-fastener	H. G. Fiske	340,993	May 4	32	8	35	511
Necktie-fastener	D. T. Freese	334,224	Jan. 12	1040	276	34	201
Necktie-fastener	J. French	350,672	Oct. 12	813	221	37	155
Necktie-fastener	G. B. Haines	354,699	Dec. 21	1537	407	37	1300
Necktie-fastener	B. J. Higgins	352,130	Nov. 9	601	159	37	577
Necktie-fastener	W. B. Kauffmann	339,896	Apr. 13	1148	286	35	212
Necktie-fastener	S. H. Noyes	350,942	Oct. 19	1180	314	37	229
Necktie-fastener	J. F. Pope	335,716	Feb. 9	887	234	34	605
Necktie-fastener	F. Standish	350,703	Oct. 12	852	229	37	162
Necktie-fastener	C. H. Wilmarth	341,531	May 11	776	208	35	657
Necktie-fastener and reversible scarf-band holder	L. Lemos	333,642	Jan. 5	189	51	34	37
Necktie-holder	L. R. Goodwin	346,993	Aug. 10	697	185	36	602
Necktie-holder	J. S. Temple	347,073	Aug. 10	833	221	36	626
Necktie-supporter	B. B. Scully	333,553	Jan. 5	73	21	34	16
Neckties, scarfs, &c. Fastener for	C. C. Shelby	342,936	June 1	232	59	35	1047
Needle	E. A. Bailey	342,773	June 1	2	1	35	1007
Needle	J. K. Krieg	354,018	Dec. 7	536	146	37	1104
Needle	O. H. Merrill	335,138	Feb. 2	57	15	34	451
Needle	E. Strain	353,040	Nov. 23	1829	492	37	823
Needle-case	F. H. Peace	349,174	Sept. 14	874	224	36	1212
Needle-case	E. J. Toof	337,893	Mar. 16	1357	352	34	1183
Needle. Cutting-	P. A. and J. Coupal	353,250	Nov. 23	2122	568	37	882
Needle or spray bath	G. Taylor	335,785	Feb. 9	992	262 263	34	625
Needle-pointing machine	P. M. Beers	339,361	Apr. 6	352	86, 87	35	66
Needle-swaging machine	P. M. Beers	353,529	Nov. 30	2531	675 676	37	964
Needles. Machine for sticking	W. H. Dayton	344,945	July 6	203	52, 53	36	38
Needles to threads, &c. Attaching	C. H. Peck	348,047	Aug. 24	2226	595	36	900
Nest. Hen's	B. M. Reed	348,054	Aug. 24	2240	599	36	903
Nests. Gate for hens'	W. S. Spaulding	348,356	Aug. 31	2667	719	36	990
Net and umbrella. Combined fish-	E. O. Darr	335,433	Feb. 2	483	126	34	528
Net. Fly-	I. Meyer	349,231	Sept. 14	958	244	36	1227
Net. Fly and mosquito	J. H. Fisher	348,388	Aug. 31	2719	730	36	1070
Net for horses	S. Fichtner	354,406	Dec. 14	1099	295	37	1214
Net. Sponge-gathering	B. K. Moscopoulos. (Reissue)	10,688	Feb. 16	2074	545	34	823
Netting-supporting device	W. Hartman	340,782	Apr. 27	2404	633	35	450
Newspaper-clip	T. and A. S. Fix	346,904	Aug. 10	586	156	36	581
Newspaper stand and file. Combined	W. E. Bailey	341,398	May 4	324	92	35	565
Nickel and silver or platinum. Forming compound plates of	M. L'Epine	340,223	Apr. 20	1620	.....	35	302
Nickel. Electro-depositing	E. C. Bates	346,258	July 27	2080	.....	36	399
Night-light	J. and W. J. Stratton	352,718	Nov. 16	1383	374	37	732
Night-soil. Apparatus for the disposal of	J. T. Robbins	347,383	Aug. 17	1270	337	36	715
Nipper or wiper for lasting-machines	F. Chase	337,924	Mar. 16	1400	363	34	1191
Nippers. Cutting-	G. L. Donovan	344,641	June 29	2649	685	35	1519
Nippers. Cutting-	S. Taft	351,478	Oct. 26	1997	519	37	383
Nitro-cellulose. Making	F. V. Pool	343,850	June 15	1559	.....	35	1304
Nitro-cellulose. Manufacturing	F. V. Pool	336,822	Feb. 23	2468	.....	34	901
Nose-bag	G. Gray	345,839	July 20	1499	388	36	281
Nose-bag	G. W. Scovill	336,597	Feb. 23	2159	565	34	844
Nose-ring for swine	L. W. Wood and W. Morley	353,651	Nov. 30	2728	728	37	999
Nose-ringing tool	C. H. Dana	339,152	Apr. 6	49	16	35	12
Note-book holder and line-indicator. Combined	A. H. Merrill	351,120	Oct. 19	1460	382	37	280
Nozzle and gate. Hydraulic	J. H. Byrne	352,732	Nov. 16	1399	378	37	736
Nozzle. Combined filling and pouring	E. Norton	334,571	Dec. 31	1342	356	37	1265
Nozzle. Jet and spray	E. R. Tomlinson	336,602	Feb. 23	2166	566	34	845
Nozzle. Spray-	E. J. Delaney	334,110	Jan. 12	857	236	34	166
Nozzle. Spraying-	J. Bean	351,087	Oct. 19	1417	372	37	271
Nozzle. Variable	R. F. Derrick	351,968	Nov. 2	345	95	37	522
Number-indicator. Electrical	W. J. Cull and C. F. Scattergood	354,505	Dec. 14	1240	332 333	37	1239
Numbering and printing machine. Rotary hand-	R. H. Ingersoll and P. B. Henry	345,697	July 20	1291	334	36	245
Numbering device	H. Lee	352,137	Nov. 9	610	161	37	579
Numbering houses. Device for	M. P. C. Hooper	335,130	Feb. 2	44	12	34	449
Numbering machine. Consecutive-	J. H. Reinhardt	350,646	Oct. 12	769	210 211	37	147
Numbering machine. Consecutive-	J. H. Reinhardt	353,711	Dec. 7	86	23	37	1022
Nursery-chair	J. Thunborg	335,324	Feb. 2	331	87	34	501
Nursery folding chair	F. B. Wilson	348,939	Sept. 7	546	144	36	1147
Nursing-chair	E. H. Taliaferro	355,230	Dec. 28	2297	605	37	1457
Nut and bolt. Expansible	A. T. Lorne	349,851	Sept. 28	1816	469	36	1409
Nut-blanks. Machine for forming	W. E. Ward	353,901	Dec. 7	361	96	37	1073
Nut-cracker	C. R. Watrous	343,351	June 8	862	217	35	1170
Nut-cracking machine	R. C. Koerber	353,143	Nov. 23	1979	528	37	853
Nut drilling and tapping machine	H. W. Barnes and G. H. Blakesley	342,496	May 25	2133	564	35	925
Nut. Feed-	A. Kidd	347,877	Aug. 24	1992	527	36	856
Nut for calipers and dividers. Rapidly-adjustable	J. Stevens and O. D. Warfield	351,474	Oct. 26	1991	517	37	382
Nut-lock	J. W. Anderson	347,147	Aug. 10	932	248	36	645
Nut-lock	J. Baker	347,764	Aug. 24	1823	485	36	825
Nut-lock	W. N. Baker	346,452	Aug. 3	3	2	36	461
Nut-lock	J. Bare	342,994	June 1	300	77	35	1061
Nut-lock	M. Barron	346,185	July 27	1971	508	36	378
Nut-lock	F. P. Beisel	337,653	Mar. 9	1045	268	34	1121
Nut-lock	J. M. Calendar	336,892	Mar. 2	11	3	34	929
Nut-lock	O. L. Castle	334,070	Jan. 12	798	219	34	156

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Nut-lock	O. L. Castle	342,327	May 25	1881	498	35	881
Nut-lock	J. P. Champion	333,502	Jan. 5	8	3	34	4
Nut-lock	F. Clark	340,764	Apr. 27	2384	628	35	445
Nut-lock	J. Conway	336,037	Feb. 9	1334	353	34	686
Nut-lock	G. P. Cragin	340,661	Apr. 27	2239	587, 588	35	420
Nut-lock	G. P. Cragin	340,662	Apr. 27	2240	588	35	420
Nut-lock	G. P. Cragin	340,663	Apr. 27	2241	588, 589	35	420
Nut-lock	C. E. Davis	348,112	Aug. 24	2324	623	36	918
Nut-lock	R. Dodson	333,839	Jan. 5	471	128	34	87
Nut-lock	M. W. Farber	348,117	Aug. 24	2330	625	36	920
Nut-lock	J. B. Fluette	341,469	May 11	700	187	35	642
Nut-lock	F. F. Foulk	354,696	Dec. 21	1534	407	37	1300
Nut-lock	G. L. Fowler	339,982	Apr. 13	1265	315	35	232
Nut-lock	B. N. Freeman and S. E. Whitehead	350,533	Oct. 12	605	167	37	117
Nut-lock	G. P. Fuller	338,729	Mar. 30	2526	668	34	1407
Nut-lock	J. W. Ganoe	339,758	Apr. 13	972	240	35	177
Nut-lock	G. Grossmann	345,842	July 29	1501	389	36	281
Nut-lock	O. D. Harmon	339,880	Apr. 13	1131	281	35	208
Nut-lock	W. S. Harris	350,827	Oct. 12	1032	276	37	195
Nut-lock	H. A. Harvey	340,308	Apr. 20	1742	444	35	324
Nut-lock	J. Hayes	339,172	Apr. 6	74	22	35	16
Nut-lock	F. H. Howes	341,145	May 4	239	71	35	549
Nut-lock	D. A. Johnson	344,380	June 29	2298	592	35	1453
Nut-lock	G. M. Kernodle	352,545	Nov. 16	1138	307	37	686
Nut-lock	E. E. Kyle	349,724	Sept. 28	1642	424	36	1375
Nut-lock	L. E. Lemen	350,143	Oct. 5	69	20	37	15
Nut-lock	T. Loveridge	335,941	Feb. 9	1309	322	34	664
Nut-lock	L. B. Lowman	354,868	Dec. 21	1772	467	37	1345
Nut-lock	C. Lutz	346,440	July 27	2338	601	36	446
Nut-lock	C. O. McBride	354,332	Dec. 14	1009	267	37	1197
Nut-lock	J. W. McHugh	348,569	Sept. 7	48	14	36	1056
Nut-lock	J. H. McLean	338,095	Mar. 16	1645	428	34	1236
Nut-lock	W. C. McLimans	354,837	Dec. 21	1725	457	37	1336
Nut-lock	W. J. McTighe	334,790	Jan. 26	1825	487	34	360
Nut-lock	H. W. Morrow	346,823	Aug. 3	454	125	36	548
Nut-lock	J. F. M. Morse	334,031	Jan. 12	738	202	34	146
Nut-lock	J. Paisley	338,866	Mar. 30	2713	714	34	1442
Nut-lock	J. L. Pope	348,235	Aug. 31	2516	676	36	959
Nut-lock	E. R. Procter	333,548	Jan. 5	69	20	34	15
Nut-lock	E. R. Procter. (Reissue)	10,704	Mar. 30	3092	818	34	1566
Nut-lock	E. F. Rea	354,735	Dec. 21	1590	420	37	1310
Nut-lock	I. R. Ritter	348,345	Aug. 31	2654	715	36	988
Nut-lock	S. L. Shellenberger	348,426	Aug. 31	2775	745	36	1011
Nut-lock	C. W. Smart	342,648	May 25	2345	619	35	964
Nut-lock	L. and C. Staples	334,058	Jan. 12	750	213	34	153
Nut-lock	W. P. Teed	338,448	Mar. 23	2128	556	34	1332
Nut-lock	T. Thompson	341,185	May 4	297	84	35	559
Nut-lock	W. H. Thompson	351,223	Oct. 19	1598	420	37	306
Nut-lock	C. Totten	354,587	Dec. 21	1364	362	37	1268
Nut-lock	M. W. Tucker	338,624	Mar. 23	2361	621	34	1372
Nut-lock	L. Unger	343,870	June 15	1583	403	35	1308
Nut-lock	T. E. Vanderwerken and G. A. Harrison.	343,743	June 15	1430	357	35	1279
Nut-lock	A. C. Vaughan	337,801	Mar. 9	1226	318	34	1152
Nut-lock	A. C. Vaughan	349,674	Sept. 21	1539	397	36	1351
Nut-lock	I. D. Warner	355,286	Dec. 28	2371	623	37	1472
Nut-lock	M. P. Wheeler	343,285	June 8	744	185	35	1150
Nut-lock	G. W. White	333,580	Jan. 5	114	31	34	24
Nut-lock	G. Woodring	334,836	Jan. 26	1882	501	34	370
Nut-lock	W. H. Wright	341,983	May 18	1387	370	35	781
Nut. Prop-	H. Higgin	336,808	Feb. 23	2448	643	34	897
Nut. Prop-	H. Higgin	347,340	Aug. 10	1053	282	36	667
Nut. Sleeve-	J. S. Dickson	339,534	Apr. 6	621	151	35	113
Nut-tapping machine	E. N. Beecher	340,191	Apr. 20	1570	397	35	293
Nut-tapping machine	W. E. Ward	341,972	May 18	1371	366	35	779
Nuts and other portions of machinery. Retainer for	C. Driscoll	350,725	Oct. 12	883	236	37	168
Nuts and washers. Manufacture of	J. Barre	351,978	Nov. 2	363	99	37	526
Nuts. Device for making	W. Hoiser	335,195	Feb. 2	155	40	34	468
Nuts. Die for making ratchet-	E. R. Procter	354,933	Dec. 28	1869	493	37	1375
Nuts. Machine for making	J. Maxwell	345,795	July 20	1434	371	36	271
Nuts. Machine for making crowned	R. T. Barton	346,885	Aug. 10	551	149	36	575
Nuts. Manufacture of blanks for hexagonal	F. A. Hasenclever. (Reissue)	10,788	Dec. 7	622	170	37	1190
Oar. Bow-facing	C. M. Hall	346,745	Aug. 3	368	99	36	532
Oar. Jointed boat-	B. F. Bennett	336,886	Mar. 2	4	2	34	927
Oar-lock	J. W. Tennis	354,750	Dec. 21	1615	427	37	1314
Oar-tip. Metallic	J. F. Wilsey	343,513	June 8	1089	273	35	1211
Oat-hulling machine	J. E. Fenner and D. Brunson	335,688	Feb. 9	841	223	34	597
Oat-hulling machine	W. Matthias and C. E. Rudolph	346,933	Aug. 10	624	167, 168	36	589
Oatmeal-machine	W. Matthias and C. E. Rudolph	346,934	Aug. 10	625	168	36	589
Obstetrical instrument	F. Hullhorst	352,245	Nov. 9	763	204	37	606
Office-indicator	R. J. Seabury	342,393	May 25	1963	524	35	898
Oil. Apparatus for cleaning	J. C. Thornton	337,459	Mar. 9	809	205	34	1078
Oil. Apparatus for refining	J. B. Grant and A. Mason	339,546	Apr. 6	639	155	35	115
Oil-burner	J. C. Morrison and R. Smith	338,862	Mar. 30	2708	713	34	1440
Oil-burner	S. S. Wilcox and G. W. Bunnell	340,179	Apr. 20	1551	392	35	289
Oil-cabinet	J. A. Hackenberg	337,576	Mar. 9	953	244	34	1104
Oil-cake. Maize	T. H. Jacobs and J. Y. Lockwood	344,275	June 22	2147	.....	35	1418
Oil-cake. Manufacture of	J. V. Kay	338,530	Mar. 23	2250	585	34	1350
Oil-cake mat	J. A. and M. T. Murphy	346,059	July 20	1799	464	36	335
Oil-can	T. C. Booth	342,571	May 25	2232	593	35	943
Oil-can	W. G. Dinsmore	338,832	Mar. 30	2672	703	34	1433

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Oil-can	G. A. Gartzke	347,789	Aug. 24	1858	495	36	832
Oil-can	J. B. Herboldshimer	353,417	Nov. 30	2368	631	37	934
Oil-can	J. Hess and G. Jensen	335,520	Feb. 2	602	156	34	547
Oil-can	T. W. Lippincott	349,598	Sept. 21	1451	374	36	1333
Oil-can	A. McNally	350,939	Oct. 19	1177	313	37	228
Oil-can	E. E. Miller	344,975	July 6	248	63	36	45
Oil-can	J. M. Riley	350,447	Oct. 5	474	134	37	91
Oil-can	F. H. Stevens	345,738	July 20	1353	352	36	256
Oil-can	G. Trubel	349,768	Sept. 28	1700	438	36	1385
Oil-can	O. H. Warren	333,575	Jan. 5	107	30	34	23
Oil-can	H. E. Wolcott	344,929	July 6	186	47	36	35
Oil-can fitting	E. W. Lewis	341,337	May 4	514	141	35	598
Oil-can holder	D. F. Ohlwine and J. H. Alexander	346,494	Aug. 3	58	14	36	471
Oil-can. Safety	D. Steencken	336,826	Feb. 23	2473	650	34	902
Oil-can. Siphon	T. W. Lippincott	346,666	Aug. 3	273	75	36	514
Oil-can. Vented	S Sargent and C. S. Trask	344,010	June 22	1773	457	35	1351
Oil-cans. Lamp-filling attachment for	J. M. McFarland	344.538	June 29	2518	649	35	1492
Oil-cloth. Making stair and table	A. F. Buchanan	353,777	Dec. 7	171	.....	37	1039
Oil-cloth-rubbing machine	J and G. Rich, E. L. Farr, and S. T. Bailey.	348,417	Aug. 31	2759	740 / 741	36	1008
Oil-cloth waste. Utilizing	W. L. Lance	354,711	Dec. 21	1554	411	37	1304
Oil-cup	J. Davies	347,577	Aug. 17	1543	410	36	766
Oil-cup	F. Humphrey	346,205	July 27	2004	516	36	384
Oil-cup	H. B. Kingsley	336,325	Feb. 16	1788	467	34	771
Oil-cup	W. Krutzsch	334,710	Jan. 19	1719	458	34	332
Oil-cup	W. A. Mahan and C. Rossetter	339,441	Apr. 6	468	114	35	87
Oil-cup	J. Sladden	350,779	Oct. 12	952	256	37	181
Oil-cup	F. O Slanker	339,489	Apr. 6	542	131	35	100
Oil-cup	J. Stewart	347,839	Aug. 24	1933	513	36	847
Oil-cup	H. A. Todd	354,845	Dec. 21	1734	459	37	1338
Oil-cup for skate and other journals	W. B. Dorward	337,822	Mar. 16	1266	328	34	1166
Oil-feeder for feeding oil to valves	N Seibert	341,352	May 4	531	146 / 147	35	601
Oil for lamps and resulting product. Preparing burning	J Roots	340,522	Apr. 20	2038	.....	35	379
Oil from cotton and other seeds. Press for expressing.	C. Baumgarten	354,673	Dec. 21	1504	398	37	1293
Oil from marine animals. Extracting	C. A. Sahlström	353,823	Dec. 7	241	.....	37	1051
Oil from tallow and kerosene for lubricating, &c. Forming	A. A. and D. E Andrews	351,352	Oct. 26	1776	.....	37	343
Oil from wells. Obtaining	T. G. Hall	345,586	July 13	1125	287	36	208
Oil-hole cover	E. F. Herrington	345,136	July 6	470	120	36	85
Oil. Lubricating	J. Seeger	339,483	Apr. 6	534	.....	35	99
Oil. Manufacture of oxidized or solidified	F. Walton	354,755	Dec. 21	1649	429	37	1315
Oil mixer and emulsifier	G. W. Sample	336,438	Feb. 16	1942	509	34	800
Oil on seas. Apparatus for distributing	F. D. Montague	350,889	Oct. 12	1114	297	37	210
Oil on water for calming the same. Apparatus for discharging	J. Gordon, Jr.	339,054	Mar. 30	2992	792	34	1490
Oil-press	J. P. F. Cartier	338,034	Mar. 16	1563	405	34	1219
Oil-press mat	O. R. Nelson	349,515	Sept. 21	1342	348 / 349	36	1312
Oil-seed-meal-heating machinery	D. A. Tompkins and F. Oliver	336,175	Feb. 16	1561	411	34	731
Oil-separator for steam and water	E. Polte	338,772	Mar 30	2592	683	34	1418
Oil-stone holder	J. W. Cole	337,559	Mar. 9	935	239	34	1100
Oil-tank	R. Federroll	352,914	Nov. 23	1641	441	37	790
Oil-tanks for preventing explosions and extinguishing fires. Attachment to	F. L. Darrach	340,864	Apr. 27	2516	652	35	469
Oil to extract paraffine, &c. Apparatus for cooling	N. M. Henderson	348,904	Sept. 7	497	132	36	1139
Oil. Treating or refining porpoise	A. P. Ashbourne	340,851	Apr. 27	2194	.....	35	466
Oil, &c., upon fibrous substances. Apparatus for distributing	A. Benn and P. Firth	352,390	Nov. 9	950	254 / 255	37	643
Oil upon seas. Apparatus for distributing	F. D. Montague	335,035	Jan. 26	2145	570	34	477
Oil upon the sea at harbors, docks, &c. Apparatus for distributing	J. Shields	334,295	Jan. 12	1147	307	34	221
Oils and analogous oils. Treating cotton-seed	J. B. Grant and A. Mason	342,692	May 25	2409	639	35	976
Oils and other liquids. Apparatus for oxidizing drying-	J. W. and F. R. Hoard	353,358	Nov. 30	2278	608	37	916
Oils. Apparatus for burning hydrocarbon	H. W. Whiting. (Reissue)	10,699	Mar. 9	1241	322	34	1156
Oils. Apparatus for extracting	C. Baumgarten	554,299	Dec. 14	963	255 / 256	37	1188
Oils. Apparatus for refining tallow and other lubricating	G. J. Pilkington	335,957	Feb. 9	1228	327	34	668
Oils, &c. Apparatus for treating essential	A. M. Todd	337,716	Mar. 9	1122	289 / 290	34	1133
Oils. Coating the inside of vessels for holding	L. E. Bowker	343.622	June 15	1249	.....	35	1248
Oils. Purifying and crystallizing essential	C. L. Coffin	336,622	Feb. 23	2200	.....	34	850
Oils. Refining vegetable	A. T. Hall	347,345	Aug. 17	1213	.....	36	705
Oils. Separating solid paraffine from	G. T. Beilby	344,709	June 29	2728	709	35	1533
Oils. Treating mineral	C. L. Baillard	340,111	Apr. 20	1879	.....	35	350
Oiler	A. L. Fisher	350,124	Oct. 5	36	10	37	9
Oiler	E. Moat	347,251	Aug. 10	1070	286	36	670
Oiler and journal-box for shafting. Mechanical	H. P. Humphrey	333,950	Jan. 5	620	169	34	117
Oiler and wiper for commutators	J Snowberger	338,197	Mar. 16	1777	464	34	1262
Oiler. Automatic	J. S. Hall	342,510	May 25	2162	572	35	929
Oiler. Car-axle	J. Gibbons	334,013	Jan. 12	707	194 / 195	34	140
Oiler for loose pulleys	E. A. Kuhns	348,919	Sept. 7	519	137	36	1142
Oiler for wrist-pins	W. S. Beeman	349,137	Sept. 14	829	211	36	1203
Oiler. Loose-pulley	C. W. Eckerson	341,138	May 11	1065	282	35	714
Oiler. Piston-rod	C. E. Tefft and J. M. Smith	355,283	Dec. 28	2367	622	37	1471
Oiler. Telelain or shaft-	O. H. Warren	352,434	Nov. 9	1003	271	37	654
Oiler. Watch and clock	J. V. Zimmerman	349,677	Sept. 21	1544	398	36	1352
Oiling loose pulleys. Device for	E. J. Wells	349,546	Sept. 21	1385	359	36	1319
Ointment	M. H. Berry and F. H. Butler	334,634	Jan. 19	1616	.....	34	313
Ointment	M. Musgrave and H. J. Barton	334,539	Jan. 19	1487	.....	34	288
Opera-chair	J. A. Callahan	351,899	Nov. 2	239	67	37	502

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Opera-chair	D. W. Garinger	348,552	Sept. 7	14	4	36	1051
Opera-chair	S. W. Peregrine	339,921	Apr. 13	1182	293	35	217
Opera-glass	J. F. Fradley	351,317	Oct. 19	1724	453	37	328
Optometer	D. D. Clark and W. G. King	342,682	May 25	2391	633 / 634	35	973
Optometer	H. Culbertson	349,385	Sept. 21	1167	302	36	1277
Optometer	A. M. A. Fournet	343,899	June 15	1617	412	35	1316
Orange-grader	J. W. Keeney	348,128	Aug. 24	2343	628	37	922
Orange-peel separating and shredding machine	W. H. Barnard and C. E. Benedict	349,075	Sept. 14	741	189	36	1186
Orange sizer and bin	J. S. McKenzie	352,421	Nov. 9	987	266	36	650
Orchard-guard	J. B. Daveggio	333,611	Jan. 5	149	41	34	30
Ordnance	D. M. Mefford	335,606	Feb. 9	729	194	34	578
Ordnance	D. M. Mefford	335,607	Feb. 9	730	195	34	578
Ordnance. Breech-loading	M. Wheeler	343,556	June 8	1148	290	35	1222
Ordnance-carriage	T. Nordenfelt	338,766	Mar. 30	2582	681	34	1417
Ordnance. Making	W. H. Brown	348,719	Sept. 7	253	68	36	1094
Ordnance. Operating	B. T. Babbitt	347,984	Aug. 24	2148	571	36	885
Ordnance. Pneumatic carriage for	J. A. Powlett	339,466	Apr. 6	507	123	35	94
Ore. Apparatus for amalgamating	E. Spencer	345,868	July 20	1535	397	36	287
Ore-concentrator	J. M. Adams and W. F. Carter	337,471	Mar. 9	823	209	34	1080
Ore-concentrator	J. D. Channell	347,993	Aug. 24	2158	574	36	886
Ore-concentrator	R. N. Clark and N. H. Cone	345,114	July 6	437	112	36	80
Ore-concentrator	A. D. Clarke	347,770	Aug. 24	1833	488	36	827
Ore-concentrator	W. A. Frank	335,219	Feb. 2	194	51	34	475
Ore-concentrator	W. A. Frank	342,435	May 25	2045	539	35	909
Ore-concentrator	T. J. Gray	333,851	Jan. 5	485	131	34	90
Ore-concentrator	W. Hooper	337,683	Mar. 9	1077	278 / 279	34	1126
Ore-concentrator	W. Hooper	337,684	Mar. 9	1079	279	34	1126
Ore-concentrator	M. McAneny and W. L. Rieley	338,856	Mar. 30	2702	711	34	1439
Ore-concentrator	H. N. Nichols	354,989	Dec. 28	1942	513	37	1389
Ore-concentrator	S. W. Shaw	352,578	Nov. 16	1184	320 / 321	37	695
Ore-concentrator	W. A. Woods and C. C. Garcelon	347,909	Aug. 24	2036	538 / 539	36	864
Ore concentrator and separator	C. T. Litchfield	351,057	Oct. 19	1378	362	37	264
Ore concentrator. Wet	J. Hubert	343,241	June 8	680	168 / 169	35	1139
Ore-conveyer	J. Q. Day	344,169	June 22	2003	513	35	1392
Ore-crusher	T. Archer, Jr.	340,472	Apr. 20	1963	504	35	365
Ore-crusher	M. Hoagland, Jr.	342,870	June 1	136	33	35	1030
Ore-crusher	S. Kendall	347,809	Aug. 24	1887	503 / 504	36	838
Ore-crusher	S. R. Krom	340,720	Apr. 27	2323	611 / 612	35	434
Ore-crusher	S. G. Rollins	337,085	Mar. 2	268	72	34	976
Ore-crusher	J. C. Wiswell	337,726	Mar. 9	1134	292 / 293	34	1135
Ore-crusher. Roller	S. R. Krom	339,664	Apr. 13	835	205 / 206	35	154
Ore-feeder	W. S. Sharpneck	354,940	Dec. 28	1881	496	37	1377
Ore-feeder	G. E. Woodbury	353,727	Dec. 7	109	29, 30	37	1026
Ore-grinding pan	J. A. Bidwell	336,691	Feb. 23	2304	602	34	870
Ore-pulverizer	E. C. Griffin	351,321	Oct. 19	1729	454 / 455	37	328
Ore. Reducing unsmelted or partly-smelted	J. T. Wainwright	350,574	Oct. 12	668	182	37	128
Ore-roasting furnace	J. and W. Applegarth	351,563	Oct. 26	2114	548	37	406
Ore-roasting furnace	H. B. Meech	341,035	May 4	83	23	35	520
Ore-sampling machine	W. McDermott	354,203	Dec. 14	821	218	37	1164
Ore-separation. Saving floating materials in	H. Bradford	345,951	July 20	1649	425 / 426	36	309
Ore-separator	F. R. Brown	336,507	Feb. 16	2029	533	34	815
Ore-separator	A. C. Campbell	335,338	Feb. 2	357	93	34	505
Ore-separator	F. Fox	342,741	May 25	2489	661	35	991
Ore-separator	H. C. Krause	349,504	Sept. 21	1329	345	36	1309
Ore-separator	D. G. Weems	344,022	June 22	1788	461	35	1354
Ore-separator. Magnetic	C. Q. Payne	348,771	Sept. 7	318	85	36	1106
Ore-washer	J. L. Deam	354,104	Dec. 14	663	178	37	1136
Ores and mineral substances. Screen for	S. R. Krom	338,847	Mar. 30	2688	709	34	1437
Ores and other materials. Machine for pulverizing	A. M. Rouse	350,564	Oct. 12	653	179	37	126
Ores. Apparatus for desulphurizing	F. Sibley	355,222	Dec. 28	2281	602	37	1454
Ores. Apparatus for treating	J. C. Wiswell	336,030	Feb. 9	1327	351	34	684
Ores by electricity. Heating and reducing	C. S. Bradley and F. B. Crocker	335,499	Feb. 2	569	149	34	542
Ores. Concentrating	C. J. Everson	348,157	Aug. 24	2387	.....	36	930
Ores. Electro-magnetic apparatus for separating	H. P. J. Kessler	345,383	July 13	807	203	36	151
Ores. Extracting gold, &c., from	H. R. Cassel	351,576	Oct. 26	2142	555	37	410
Ores. Extracting metals from	F. M. Endlich and N. H. Muhlenberg	350,669	Oct. 12	808	.....	37	155
Ores. Extracting nickel and cobalt from	D. Mindeleff	354,923	Dec. 28	1854	490	37	1372
Ores. Furnace for roasting and chloridizing	L. M. Ramsey	343,731	June 15	1415	353	35	1276
Ores. Jig-box for separating	F. T. Freeland	348,517	Aug. 31	2908	782	36	1035
Ores, &c. Machine for concentrating	F. H. Blake	337,122	Mar. 2	321	84	34	985
Ores. Machine for concentrating	F. R. Carpenter	344,720	June 29	2743	712	35	1536
Ores. Machine for reducing	A. M. Rouse	350,563	Oct. 12	650	178 / 179	37	125
Ores of nickel and cobalt with oxide of manganese. Reducing	F. Lotter	339,067	Mar. 30	3008	.....	34	1492
Ores. Reducing magnetic oxide-of-iron	D. Reynolds	335,624	Feb. 9	755	.....	34	583
Ores. Reducing refractory silver and gold bearing	G. T. Lewis	343,589	June 15	1904	.....	35	1239
Ores. Separating metals from their	M. Birmingham	342,422	May 25	2099	.....	35	906
Ores. Treating	G. W. Scollay	333,785	Jan. 5	396	.....	34	75
Organ	T. Cahill	345,028	July 6	331	83	36	60
Organ and piano. Combined	C. F. Cullum	346,842	Aug. 3	483	133 / 134	36	555
Organ and piano. Combined	R. A. Kemp	352,060	Nov. 2	477	129	37	549

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Organ and sewing-machine. Combined	J. R. Hessler	338,740	Mar. 30	2545	671, 672	34	1410
Organ-bellows. Valve for	J. H. Chase	345,673	July 20	1264	327	36	240
Organ. Cabinet	J. Hessler	352,128	Nov. 9	599	158	37	577
Organ. Cabinet pipe	H. L. Roosevelt and C. S. Haskell	340,461	Apr. 20	1943	499, 500	35	361
Organ-case	E. H. Loring	349,656	Sept. 21	1519	393	36	1347
Organ-case	E. S. Votey	348,505	Aug. 31	2888	777	36	1032
Organ-coupler	F. Stone	353,895	Dec. 7	353	94	37	1071
Organ-pedal. Adjustable	J. T. Rowe	352,267	Nov. 9	796	213	37	612
Organ-pipe	W. L. Merrin	347,363	Aug. 17	1238	330	36	709
Organ. Pipe	M. P. Möller	343,049	June 1	388	99	35	1077
Organ. Pipe	W. H. Young	346,450	July 27	2359	605	36	449
Organ-reed	M. Gally	344,443	June 29	2380	613	35	1468
Organ. Reed	J. B. Hamilton	350,623	Oct. 12	743	203, 204	37	143
Organ. Reed	J. B. Hamilton	350,624	Oct. 12	744	204	37	143
Organ. Reed	J. B. Hamilton	350,739	Oct. 12	900	241	37	171
Organ. Reed	H. Schwesinger	351,603	Nov. 2	105	29	37	477
Organ-reeds. Manufacture of	L. A. Wood	347,546	Aug. 17	1501	398	36	757
Organ sound-board	J. G. C. Siefker	339,224	Apr. 6	150	40	35	29
Organ stop-action. Combination	W. H. Price, Jr.	337,348	Mar. 2	622	164	34	1041
Organs. Octave-coupler for	A. H. Hammond	344,041	June 22	1820	467	35	1358
Organs. Octave-coupler for	W. Murphy	336,134	Feb. 16	1483	392	34	720
Organs. Pedal-cover for	J. S. Foley	345,129	July 6	454	118	36	83
Organs. Pneumatic action for	I. Bassett	336,982	Mar. 2	131	35	34	949
Organs. Pneumatic action for	C. S. Haskell	337,326	Mar. 2	600	157	34	1037
Organs. Pneumatic action for	H. L. Roosevelt and C. S. Haskell	336,351	Feb. 16	1824	479	34	778
Organs. Pneumatic action for	V. Willis	339,608	Apr. 6	746	184, 185	35	131
Organs. Reed-board for	W. N. Murdock	341,041	May 4	90	25	35	522
Organs. Socket-board for reed	J. Hessler	352,129	Nov. 9	599	158, 159	37	577
Organs. Sub-bass attachments for reed	F. Stone	340,636	Apr. 27	2202	579	35	414
Ornamental fabric	L. Baer and D. Kraemer	335,792	Feb. 9	1001	265	34	627
Orthography. Method of indicating	M. E. Walker	340,837	Apr. 27	2479	652, 653	35	463
Orthopedical appliance	I. Zacharie	353,910	Dec. 7	377	100	37	1076
Oscillating engine	Y. Lusse	350,633	Oct. 12	757	207, 208	37	145
Oscillating engine	D. C. Putnam	334,282	Jan. 12	1130	303	34	218
Oscillating engine	A. Van Guysling	336,454	Feb. 16	1969	516	34	804
Oscillating meter	L. H. Nash	336,423	Feb. 16	1922	503, 504	34	796
Oven	H. F. Bartlett	343,562	June 15	1164	293	35	1233
Oven	W. Miller	336,937	Mar. 2	72	19	34	939
Oven. Baker's	C. Bellstedt	341,874	May 18	1248	334	35	757
Oven. Baker's	A. Crumbie	340,983	May 4	17	5	35	508
Oven. Baker's	R. Lamb	345,906	July 20	1588	410	36	298
Oven. Baker's	S. Lamoureux	347,181	Aug. 10	976	260, 261	36	653
Oven. Baker's	O. Liberty	354,198	Dec. 14	814	216	37	1162
Oven. Baker's	E. A. C. Petersen	336,741	Feb. 23	2361	617	34	881
Oven. Baker's	S. M. Raines	340,354	Apr. 20	1815	465	35	338
Oven. Baker's	A. T. Simpkins	346,621	Aug. 3	218	60	36	502
Oven. Baker's	W. H. Thompson	336,767	Feb. 23	2394	628	34	888
Oven. Baker's	H. Wild	345,095	July 6	413	105, 106	36	75
Oven. Baker's portable	J. E. Ells	346,365	July 27	2223	570	36	425
Oven. Baking	J. Junker	349,653	Sept. 21	1513	392	36	1346
Oven-door	D. E. Paris	345,531	July 13	1041	264, 265	36	193
Oven-door catch	L. E. Ziegle	334,728	Jan. 19	1743	465	34	337
Oven for heating flat-irons	E. Westenhaver	347,542	Aug. 17	1495	396	36	756
Oven. Gas-heated baker's	W. H. Thompson	341,615	May 11	899	239	35	681
Oven-light	F. H. Van Routen	342,769	May 25	2520	673	35	997
Oven or furnace for heating ingots and blooms	P. Kirk	343,820	June 15	1519	383	35	1296
Oven-peel	E. N. Rittase	336,349	Feb. 16	1822	478	34	777
Oven-plate	R. E. Deane	353,290	Nov. 30	2183	585	37	900
Oven. Portable	S. J. McDowell	346,763	Aug. 3	386	106	36	536
Oven. Portable baking	A. Chappee	336,550	Feb. 23	2095	551	34	523
Oven. Reel	G. B. Duncan and J. Bailie	347,475	Aug. 17	1402	373	36	739
Oven-shelf	D. E. Paris	345,533	July 13	1045	266	36	193
Ovens. Attachment for bake-	L. B. Linthicum	338,279	Mar. 23	1889	496	34	1290
Ovens. Drop-door for	L. L. Culver	344,521	June 29	2496	643	35	1488
Ovens. Illuminating device for bakers'	E. A. C. Petersen	354,807	Dec. 21	1687	445	37	1329
Ovens. Lighting and closing device for baker's	A. Nestlin	347,953	Aug. 24	2111	562	36	878
Overall-strap	F. C. Churchill	341,129	May 4	217	65	35	545
Overalls	A. Boesenberg	344,156	June 22	1984	507	35	1389
Overalls	C. Erlanger	337,316	Mar. 2	588	155	34	1035
Overalls	C. V. Osborn	354,928	Dec. 28	1860	492	37	1373
Overalls	C. R. Searley	346,019	Aug. 3	302	83	36	520
Overalls	M. Vanderbeugle	338,118	Mar. 16	1677	435	34	1241
Overflow-gate for reservoirs	W. Halley, H. F. Wilkinson, and J. E. Bissett.	349,712	Sept. 28	1621	418	36	1371
Overflow-trap. Automatic	P. W. Meehan	343,826	June 15	1525	384	35	1297
Overseaming-machine	H. Schulze-Berge	344,872	July 6	110	27	36	20
Overshoe-clamp	J. H. Caldwell	339,740	Apr. 13	949	232	35	173
Overshoe-lift	S. Blenkhorn	339,258	Apr. 6	208	53	35	39
Overshoes. Clasp-fastening for	F. Richardson	338,555	Mar. 23	2262	594	34	1355
Oversleeve	H. W. Converse	348,618	Sept. 7	119	34	36	1069
Ox-shoe	J. Deeble	338,937	Mar. 30	2815	742	34	1460
Ox-shoes. Die for trimming	J. Deeble	336,901	Mar. 2	28	7	34	932
Ox-shoes. Manufacture of	J. Deeble	336,900	Mar. 2	27	7	34	932

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Oyster-dredge	C. W. Hoyt	351,264	Oct. 19	1650	433	37	315
Oyster-tongs	R. T. Allinson	337,358	Mar. 9	639	169	34	1051
Package	J. B. Andrews and H. R. Gillingham	349,970	Sept. 28	1966	508	36	1438
Package. Cylindrical wooden	J. Tomlinson	336,963	Mar. 2	106	29	34	945
Package for belt-dressing compounds	J. H. Bringold	337,235	Mar. 4	471	123	34	1013
Package for liquid glue, &c	C. H. Leggett	334,592	Jan. 19	1554	415	34	302
Package-holder	T. T. Gaunt and C. S. Allen	347,235	Aug. 10	1046	280	36	665
Packer for oil-wells	J. D. Brooder	350,655	Oct. 12	791	215	37	151
Packing	W. White, Jr.	337,100	Mar. 2	290	77	34	980
Packing. Asbestus	R. N. Pratt	338,358	Mar. 23	1998	526	34	1309
Packing. Asbestus	R. N. Pratt	351,464	Oct. 26	1973	513	37	378
Packing-box	W. H. Beach	333,720	Jan. 5	312	86	34	58
Packing-box	A. E. Bonesteel	347,917	Aug. 24	2049	544	36	867
Packing-box	S. T. Jenkins and T. J. McGuire	353,225	Nov. 23	2090	559 / 560	37	876
Packing-case	F. P. Harden	344,103	June 22	1910	489	35	1376
Packing-case	F. E. Kip	353,226	Nov. 23	2092	560	37	876
Packing-case	G. F. and J. A. Schoeberlein, Jr	355,105	Dec. 28	2109	554	37	1420
Packing. Cork-core steam	F. Maass	346,598	Aug. 3	188	50	36	497
Packing. Flexible-joint	H. Kennedy	351,605	Oct. 26	2188	565	37	419
Packing for car-axle boxes	E. Waite	336,966	Mar. 2	108	30	34	945
Packing for deep-well pumps. Piston-	E. R. Maxwell	348,027	Aug. 24	2304	588	36	895
Packing for engines. Plunger-	L. H. Nash	334,037	Jan. 12	746	204	34	147
Packing for glass gage-tubes	W. H. Bray	341,444	May 11	662	178	35	635
Packing for piston and valve rods. Metallic	C. T. Sleeper and F. J. Hubbard	334,480	Jan. 19	1404	379	34	274
Packing for piston-rods	C. Rohn	354,936	Dec. 28	1874	495	37	1376
Packing for piston-rods. Adjustable	W. Pohlman	347,197	Aug. 10	998	266	36	657
Packing for piston-rods. Metallic	J. C. Chapman	350,116	Oct. 5	26	8	37	8
Packing for pistons	J. Ferguson	336,223	Feb. 16	1641	428 / 429	34	745
Packing for pistons. Metallic	W. H. Lang	350,004	Sept. 28	2017	521	36	1447
Packing for pistons, plungers, &c	F. M. Ludlow	348,527	Aug. 31	2921	785	36	1037
Packing for rods	J. Partington	336,152	Feb. 16	1527	402	34	725
Packing for steam-condenser tubes	A. G. W. Rankin	337,434	Mar. 9	774	197	34	1073
Packing for stuffing-boxes. Metallic	F. Henneböhle	339,771	Apr. 13	989	244	35	181
Packing for surface-condensers. Tube-	D. B. Cobb	334,512	Jan. 19	1450	389	34	282
Packing for surface-condensers. Tube-	D. B. Cobb	341,554	May 11	813	217	35	663
Packing for valve-stems and piston-rods	F. G. Brownell	343,003	June 1	310	80	35	1063
Packing-joint	T. Keyworth	355,592	Feb. 9	712	189	34	575
Packing. Metallic	J. B. Deeds	344,084	June 22	1886	484	35	1371
Packing. Piston-	W. A. Boyden	342,819	June 1	59	15	35	1017
Packing. Piston-	J. Brandon	345,569	July 13	1102	282	36	204
Packing. Piston-	J. W. Dudley	353,211	Nov. 23	2075	554	37	872
Packing. Piston-	C. Goeller and J. J. Moore	341,138	May 4	233	69	35	548
Packing. Piston-	T. B. Purves	343,065	June 1	410	105	35	1081
Packing. Piston-	T. Tripp	352,166	Nov. 9	661	176	37	587
Packing. Piston-rod	W. A. P. Bicknell	338,700	Mar. 30	2477	654	34	1399
Packing. Piston-rod	O. J. Garlock	334,579	Jan. 19	1539	412	34	298
Packing. Piston-rod	J. H. McGowan	347,817	Aug. 24	1899	506	36	841
Packing. Piston-rod	G. W. Scheuing	342,391	May 25	1981	523	35	897
Packing. Piston-rod	J. Schinneller	343,923	June 15	1647	422	35	1322
Packing. Piston-rod	B. F. Williston	333,582	Jan. 5	116	32	34	24
Packing. Piston-rod and valve-stem	B. E. Foss	351,695	Oct. 26	2308	599	37	442
Packing. Piston-rod and valve-stem	C. Watson	341,973	May 18	1375	366	35	779
Packing piston-rods of refrigerating-machines	E. Fixary	345,041	July 6	345	87	36	63
Packing. Rod-	H. Bushnell	351,828	Nov. 2	135	38	37	484
Packing. Rod-	E. L. Perry	339,924	Apr. 13	1188	295	35	218
Packing. Rod-	E. L. Perry	339,925	Apr. 13	1188	295	35	218
Packing. Rod and piston	C. C. Jerome	344,908	July 6	160	40	36	29
Packing. Steam-	E. J. Hoskins	339,100	Mar. 30	3062	810	34	1501
Packing the joints of gas-pipes, &c. Composition of matter for Pad: *See* Bath-pad. Blotting-pad. Carriage foot-pad. Collar-pad. Color or ink pad. Collar sweat-pad. Furniture-pad. Harness-pad. Hoof-pad. Inking-pad. Interfering-pad. Saddle-pad. Truss-pad. Writing or blotting pad.	A. H. Rowand and R. S. Hunzeker.	349,751	Sept. 28	1676	.....	36	1381
Paddle-wheel	P. Cummings	333,607	Jan. 5	145	40	34	29
Paddle-wheel	J. W. Reed	350,395	Oct. 5	387	111	37	77
Paddle-wheel. Feathering	T. P. Turnbull	335,726	Feb. 9	901	337 / 238	34	609
Padlock	H. Abbett	346,011	July 20	1739	448	36	324
Padlock	W. I. Alvord	353,012	Nov. 23	1783	480	37	816
Padlock	L. Hillebrand	348,521	Aug. 31	2913	783	36	1036
Padlock	W. Hover	347,711	Aug. 17	1750	466	36	604
Padlock	M. Jackson	340,319	Apr. 20	1757	448	35	327
Padlock	F. W. Mix	344,669	June 29	2682	696	35	1525
Padlock	F. W. Mix	351,458	Oct. 26	1962	510	37	376
Padlock	W. J. Richards	348,664	Sept. 7	436	116	36	1128
Padlock	A. Stewart	345,187	July 6	534	137	36	98
Padlock	C. L. Wheeler	339,956	Apr. 13	1227	305	35	225
Padlock. Combination-	L. P. Jenks	344,109	June 22	1919	491	35	1377
Padlock. Permutation-	J. H. Julian	336,858	Feb. 23	2512	663	34	910
Padlock. Permutation-	J. H. Julian	353,031	Nov. 23	1811	485	37	820
Padlock. Permutation-	G. F. Seiser	346,954	Aug. 10	650	174	36	593
Padlock. Permutation-	N. Speicher	352,373	Nov. 9	926	248 / 249	37	638
Padlock. Permutation-	W. B. Turman	337,800	Mar. 9	1224	318	34	1152
Padlock. Permutation-	C. A. Volke	345,340	July 13	752	189	36	141
Pail, &c	A. Brake	353,198	Nov. 23	2059	549	37	869
Pail-bodies. Machinery or press for molding	F. E. Keyes	354,708	Dec. 21	1549	410	37	1302

Alphabetical list of inventions—Continued.

Invention.	Name	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Pail-bottoms. Machine for bending	H. W. Leonard and J. Stevens	335,079	Jan. 26	2206	586	34	428
Pail, commode, and nursery-chair. Slop-	G. H. Packwood	343,192	June 8	608	151	35	1126
Pail-ear	G. S. Wing	350,280	Oct. 5	246	71	37	51
Pail holder. Milk-	G. Abbott	355,044	Dec. 28	2992	532	37	1402
Pail. Milk-	F. G. Ford	353,213	Nov. 23	2078	555	37	873
Pail. Paint or varnish	C. R. Carley	340,859	Apr. 27	2505	660	35	467
Pails. Bail-ear for	J. McDonnell	344,667	June 29	2680	696	35	1525
Pails. Device for holding milk-	M. K. Randall	354,438	Dec. 14	1142	305	37	1222
Paint	J. H. Palmer	350,765	Oct. 12	935	.....	37	177
Paint and varnish	J. W. and F. R. Hoard	334,019	Jan. 12	717	.....	34	142
Paint-can	I. W. Litchfield	340,721	Apr. 27	2325	612	35	434
Paint-can	E. Norton	338,767	Mar. 30	2583	681	34	1417
Paint composition	G. Jordan	355,019	Dec. 28	1983	.....	37	1396
Paint composition	J. McArthur	338,540	Mar. 23	2244	.....	34	1352
Paint composition. Dry-	G. W. L. Marsden	341,761	May 11	1094	.....	35	719
Paint. Composition for removing	G. W. Moore	338,544	Mar. 23	2248	.....	34	1353
Paint compound. Fire-proof-	W. H. Keller	343,906	June 15	1628	.....	35	1318
Paint-exhibitor	T. C. Van Arsdale	337,034	Mar. 2	206	55	34	963
Paint. Fire and water proof	C. S. Fowler	344,177	June 22	2013	.....	35	1394
Paint. Manufacture of	G. W. Holley	349,885	Sept. 28	1858	.....	36	1418
Paint. Mixed	A. T. Boone	342,174	May 18	1648	.....	35	831
Paint. Mixed	J. H. Hollen	341,576	May 11	847	.....	35	670
Paint. Mixed	O. Kall	351,380	Oct. 26	1816	.....	37	350
Paint. Mixed	J. C. Mallonee	341,588	May 11	862	.....	35	673
Paint. Mixed	G. W. L. Marsden	341,760	May 11	1093	.....	35	719
Paint. Mixed	C. J. Mountford	339,070	Mar. 30	3013	.....	34	1492
Paint. Mixed	T. J. Pearce and M. W. Beardsley	348,868	Mar. 30	2715	.....	34	1442
Paint. Mixed	T. J. Venema	334,493	Jan. 19	1422	.....	34	277
Paint. Mixed	F. Wendling	346,336	July 27	2186	.....	36	418
Paint-mixing machine	N. Bassett	336,079	Feb. 16	1409	373, 374	34	706
Paint-mixing machine	C. Ross, Jr	348,931	Sept. 7	535	141	36	1145
Paint, &c. Separator for dry	R. E. Gray	348,324	Aug. 31	2631	709	36	983
Painters, &c. Progressive climbing device for the use of	E. H. Gadsby	335,278	Feb. 2	271	71	34	489
Painter's scraping device	C. O'Neill and R. O'Neil	343,389	June 8	922	230	35	1182
Painting and whitewashing machine	C. P. Lancaster	352,332	Nov. 9	878	236	37	628
Painting bobbins, &c. Machine for	L. C. Baldwin	338,380	Mar. 23	2035	534	34	1314
Painting carriage-bow slats. Dipping-tank for	J. W. and J. W. Sherwood	354,441	Dec. 14	1145	306	37	1323
Painting-machine	J. F. Cranston	339,520	Apr. 6	596	144	35	110
Painting-machine	R. Quartermass	344,134	June 22	1952	499	35	1383
Painting-machine	A. K. Nesbitt	350,384	Oct. 5	373	107, 108	37	75
Painting-machine	C. A. Rosenblatt	348,535	Aug. 31	2934	788, 789	36	1040
Painting metallic plates	B. F. Caldwell	347,990	Aug. 24	2153	573	36	886
Painting shingles. Apparatus for	C. I. Millard	350,987	Oct. 19	1294	337	37	248
Paintings. Stretcher-frame for	F. P. Pfleger	335,383	Feb. 2	415	107	34	516
Palette-knife and brush-supporter	A. S. Campbell	337,660	Mar. 9	1052	271	34	1122
Pamphlet-jacket	E. S. Morse	343,475	June 8	1048	261	35	1204
Pamphlets. Machine for attaching covers to	G. H. Ogden	337,608	Mar. 9	989	253, 254	34	1111
Pamphlets, magazines, or sheets. Adjustable cover for holding	J. E. Briggs	342,326	May 25	1880	498	35	881
Pan: *See* Ash-pan. Bake-pan. Baker's pan. Baking-pan. Baking and roasting pan. Bed-pan. Bung-pan. Concentrating-pan. Dish-washing pan. Dust-pan. Evaporating-pan. Frying-pan. Locomotive ash-pan. Ore-grinding pan. Scale-pan. Vacuum-pan.							
Pan and stove-cover lifter. Combined	P. A. Gordon	344,524	June 29	2500	644	35	1489
Pan for bakers' use	J. H. Mitchell	344,193	June 22	2037	521	35	1398
Pan for bakers' use	J. H. Mitchell	344,194	June 22	2038	521	35	1399
Pans. Machine for making	W. Churchill	340,659	Apr. 27	2236	587	35	420
Panel for doors and other uses. Metallic	G. M. Gill	349,583	Sept. 21	1433	370	36	1329
Panel-gage, measuring-rod, and trammel. Combined.	F. A. Humphrey	348,674	Sept. 7	197	52	36	1082
Panels. Fastening for secret	L. A. J. Muller	351,881	Nov. 2	218	62	37	498
Panels. Making open-work ornamental	F. Mankey	351,060	Oct. 19	1381	362	37	265
Pantaloons-protector	J. D. Hanan	346,652	Aug. 3	257	70	36	510
Pantaloons-protector	G. Kinner	334,786	Jan. 26	1815	484	34	359
Pantaloons-protector	C. Sandford	354,243	Dec. 14	874	231	37	1173
Pantaloons-stretcher	C. H. Benton	352,106	Nov. 2	548	145	37	561
Pantaloons-stretcher	J. Grant	348,203	Aug. 31	2470	663	36	951
Pants	L. Decker	355,256	Dec. 28	2332	613	37	1464
Pants. Attachment for	H. J. Lyon	338,641	Mar. 23	2382	627	34	1376
Pants. Attachment for	H. J. Lyon	349,657	Sept. 21	1520	393	36	1347
Pants-hanger	A. Flieger	351,102	Oct. 19	1435	376	37	275
Pants. Supplementary waistband for	B. Birnbaum	344,341	June 29	2239	576	35	1442
Pantograph	J. A. Wang	350,027	Sept. 28	2046	528	36	1452
Paper and fixture. Toilet-	O. H. Hicks	334,864	Jan. 26	1918	510	34	377
Paper and other fabrics. Machine for sizing and coloring	H. F. Case	346,894	Aug. 10	566	151, 152	36	577
Paper and other fabrics. Process of and apparatus for coating	E. G. Sparks	343,345	June 8	850	215	35	1168
Paper and other material with wax. Coating	S. M. Chester	353,122	Nov. 23	1941	520	37	846
Paper and other material with wax. Device for coating	I. Sherck and J. Batig, Jr	346,870	Aug. 3	525	143	36	562
Paper and products and manufacture thereof	T. J. Pearce and M. W. Beardsley	348,995	Sept. 14	622	.....	36	1166
Paper. Apparatus for the manufacture of	C. J. Richardson	338,364	Mar. 23	2009	528	34	1310
Paper, &c. Apparatus for waterproofing	H. C. Spalding	345,003	July 6	300	75	36	54

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Paper, &c. Apparatus for waxing	I. Sherck and J. Batig, Jr	345,864	July 20	1530	396	36	286
Paper. Apparatus for waxing	I. Sherck and J. Batig, Jr	346,869	Aug. 3	524	143	36	562
Paper. Apparatus for winding and rewinding	E. W. Ayer	336,686	Feb. 23	2297	600, 601	34	869
Paper bag	D. Appel	340,074	Apr. 20	1396	351, 352	35	261
Paper bag	D. Appel	340,075	Apr. 20	1398	352	35	269
Paper bag	D. Appel	340,076	Apr. 20	1399	352, 353	35	262
Paper bag	D. Appel	340,078	Apr. 20	1403	354	35	263
Paper bag	D. Appel	340,079	Apr. 20	1404	354, 355	35	263
Paper bag	W. C. Fageley	349,838	Sept. 28	1798	465	36	1406
Paper bag	H. M. Farnsworth	355,010	Dec. 28	1972	519	37	1392
Paper bag	W. P. Hill	351,378	Oct. 26	1814	477	37	350
Paper bag	W. H. Honiss	333,523	Jan. 5	37	10, 11	34	9
Paper bag	W. H. Honiss	353,307	Nov. 30	2209	591, 592	37	904
Paper bag	W. H. Honiss	353,308	Nov. 30	2210	592	37	904
Paper bag	W. A. Lorenz	342,754	May 25	2503	667	35	994
Paper bag	W. A. Lorenz	353,319	Nov. 30	2225	595, 596	37	907
Paper bag and making the same	S. Bayle	341,720	May 11	1043	276	35	710
Paper-bag holder	W. Hitchcock, Jr., and H. A. Winternight.	341,806	May 11	1146	304	35	729
Paper-bag holder	D. M. Karns	338,274	Mar. 23	1883	494, 495	34	1289
Paper-bag holder	S. W. Sheldon	339,487	Apr. 6	539	130	35	100
Paper-bag machine	D. Appel	340,081	Apr. 20	1409	356	35	263
Paper-bag machine	W. A. Lorenz	333,646	Jan. 5	194	52, 53	34	38
Paper-bag machine	W. A. Lorenz and W. H. Honiss	333,647	Jan. 5	194	53, 54	34	38
Paper-bag machine	W. A. Lorenz and W. H. Honiss	337,964	Mar. 16	1461	378, 379	34	1201
Paper-bag machine	W. A. Lorenz and W. H. Honiss	337,965	Mar. 16	1463	379, 380	34	1202
Paper-bag machine	W. A. Lorenz and W. H. Honiss	337,966	Mar. 16	1466	380, 381	34	1202
Paper-bag machine	J. P. Onderdonk	333,538	Jan. 5	57	16	34	13
Paper-bag machines. Feeder and paster for	H. R. Corkbill, Sr	350,974	Oct. 19	1236	328, 329	37	239
Paper bags. Apparatus for making satchel-bottom	J. N. Chadsey	352,118	Nov. 9	573	152, 153, 154	37	573
Paper bags. Machinery for the manufacture of satchel-bottom	W. C. Cross	336,474	Feb. 16	1991	521, 522	34	808
Paper bags. Making	W. H. Honiss	352,921	Nov. 23	1651	444	37	792
Paper bags. Manufacture of	J. P. Onderdonk	333,537	Jan. 5	56	16	34	13
Paper. Bleaching mechanical wood-pulp and other raw vegetable fibers for the purpose of manufacturing	J. A. Just, F. A. Fletcher, and C. F. Gibbs.	348,165	Aug. 24	2398	.....	36	932
Paper, &c. Bleaching vegetable fiber for the manufacture of	J. A. Just, F. A. Fletcher, and C. F. Gibbs.	354,477	Dec. 14	1195	.....	37	1232
Paper-board. Manufacture of parchmentized	E. Andrews	352,729	Nov. 16	1395	.....	37	735
Paper boards. Machine for making	G. Quigley	333,781	Jan. 5	391	106	34	74
Paper box	W. J. Auchterlonie	340,904	Apr. 27	2565	676	35	478
Paper box	H. N. Carpenter	339,147	Apr. 6	44	14	35	11
Paper box	H. W. Case and J. Dusbane	335,178	Feb. 2	132	33	34	464
Paper box	S. Crump	348,547	Sept. 7	9	3	36	1050
Paper-box	J. F. Diemer and P. E. Gonon	354,694	Dec. 21	1531	406	37	1299
Paper box	J. B. Duke	349,786	Sept. 28	1726	445	36	1391
Paper box	W. W. D. Lewis	333,643	Jan. 5	190	51	34	37
Paper box	A. C. Lohmann	349,165	Sept. 14	864	222	36	1210
Paper box	E. L. Meyer	354,726	Dec. 21	1571	416	37	1307
Paper box	H. S. Munson	348,924	Sept. 7	526	138, 139	36	1144
Paper box	F. M. Oviatt	340,058	Apr. 13	1371	344	35	251
Paper box	T. F. W. Schmidt	347,646	Aug. 17	1662	441	36	788
Paper box	G. D. Seib	341,859	May 11	1220	327	35	744
Paper box	W. Taylor	343,866	June 15	1578	402	35	1308
Paper-box blanks. Machine for cutting	A. Kingsbury	346,165	July 27	1945	501	36	373
Paper-box-covering machines. Cutter for	A. M. Eastman	348,000	Aug. 24	2168	577	36	888
Paper box. Folding	C. W. Elliott	350,727	Oct. 12	888	237	37	169
Paper box. Knockdown	J. C. Hurd	340,915	Apr. 27	2578	679	35	481
Paper-box machine	B. E. Becker	339,843	Apr. 13	1082	269	35	198
Paper-box machine	I. T. Brown	345,363	July 13	781	197	36	146
Paper-box machine	W. S. Davis	352,304	Nov. 9	839	226, 227	37	320
Paper box. Paraffine-coated	W. B. Howe	339,418	Apr. 6	439	107	35	82
Paper-box top and bottom covering machine	P. Hauck	351,595	Oct. 26	2172	562	37	416
Paper boxes. Corner-fastener for	C. T. Remus	343,340	June 8	843	213	35	1167
Paper boxes. Machine for covering the exterior of	A. M. Eastman	347,999	Aug. 24	2163	576, 577	36	888
Paper boxes, &c. Machine for cutting	H. D. Stimson	341,700	May 11	1021	270	35	705
Paper. Cabinet for sanitary	J. T. Hoyt	342,101	May 18	1563	417	35	814
Paper-calender rolls. Doctor for	R. Smith	352,665	Nov. 16	1311	353, 354	37	718
Paper-calendering machine	M. Solinger	337,028	Mar. 2	201	53	34	962
Paper-calendering machines. Sheet-feeding device for	L. Harlow	350,741	Oct. 12	903	242	37	171
Paper-calendering roll	B. F. Perkins	355,026	Dec. 28	1991	524	37	1397
Paper cartridge-shells. Heading	A. Dickerman	347,166	Aug. 10	957	256	36	650
Paper, cloth, &c. Ornamenting the surface of	J. H. Lange	343,379	June 8	909	.....	35	1179
Paper. Combined feeder and cutter for toilet	H. H. Harrison	345,052	July 6	356	90	36	65
Paper-cop-tube machine	W. M. Marchant	341,028	May 4	74	20, 21	35	519

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Paper-cutter	W. Jones	339,895	Apr. 13	1148	285	35	212
Paper cutter and stamper. Combined	A. Brown	341,446	May. 11	663	179	35	635
Paper-cutter gage	M. L. Metzger and A. Cooper	335,766	Feb. 9	962	254, 255	34	619
Paper-cutter. Rotary	J. Meserole	346,167	July 27	1948	502	36	373
Paper-cutting dies. Bed for	H. P. Fiske	344,822	July 6	25	7	36	7
Paper-cutting machine	J. Ball	352,848	Nov. 16	1547	418	37	762
Paper-cutting machine	E. P. Donnell	343,987	June 22	1739	447	35	1345
Paper-cutting machine	J. F. Lash	354,641	Dec. 21	1458	386	37	1285
Paper-cutting machine	J. T. Robinson	333,733	Jan. 5	393	107	34	74
Paper-cutting machine	B. Sandmann	337,386	Mar. 2	544	143	34	1027
Paper-cutting machine	F. D. Witherell	353,045	Nov. 23	1837	494	37	824
Paper, &c. Die for cutting	S. Crump	348,548	Sept. 7	10	3	36	1050
Paper-drier	H. Winterwerber	334,150	Jan. 12	912	249, 250	34	178
Paper. Drying-frame for sensitized	H. Kuhn	339,666	Apr. 13	838	206	35	154
Paper egg-carrier	J. Burns	353,537	Nov. 30	2546	678	37	967
Paper fabric. Making	C. P. Wyman	342,988	June 1	292	.....	35	1060
Paper-fastener	F. C. Hamilton	349,993	Sept. 28	2001	517	36	1444
Paper-fastener	E. Kempshall	347,718	Aug. 17	1760	469	36	806
Paper-fastener	E. Kempshall	347,719	Aug. 17	1761	469	36	806
Paper-fastener	F. H. Richards	342,634	May 25	2329	615	35	961
Paper-fasteners. Making	F. H. Richards	341,431	May 4	635	174	35	620
Paper-fasteners. Making	F. H. Richards	341,432	May 4	636	174	35	620
Paper-fasteners. Material for	F. H. Richards	341,433	May 4	637	174	35	620
Paper-feeder	J. T. Hoyt	342,100	May 18	1562	417	35	814
Paper-feeder	A. Sedgwick and J. Naylor, Jr	336,071	Feb. 9	1387	367, 368	34	695
Paper-feeding machine	A. Sedgwick and J. Naylor, Jr	336,070	Feb. 9	1380	366, 367	34	694
Paper-finishing machine	H. F. and F. L. Case	335,562	Feb. 9	664	175	34	566
Paper. Fixture for holding toilet	O. H. Hicks	352,950	Nov. 23	1692	454	37	799
Paper fixture. Toilet	C. C. Johnson	343,321	June 8	808	243	35	1160
Paper fixture. Toilet	S. Wheeler	341,769	May 11	1031	273	35	707
Paper folding and pasting machine	T. C. Dexter	347,333	Aug. 17	1194	320	36	702
Paper-folding machine	D. Appel	340,077	Apr. 20	1400	353, 354	35	262
Paper-folding machine	G. W. Shamp	349,322	Sept. 21	1056	271	36	1256
Paper-folding machine	J. H. Stoumetz	335,096	Jan. 26	2233	595	34	433
Paper-folding machines. Feeding-table for	R. T. Brown	347,224	Aug. 10	1035	276	36	663
Paper folding, pasting, and trimming machine	G. E. Lloyd	353,638	Nov. 30	2703	721, 722, 723, 724	37	995
Paper for boxes. Machine for scoring and cutting	J. C. Marshall	347,492	Aug. 17	1424	378, 379	36	743
Paper for sun-pictures. Preparing	J. S. Simonds	347,527	Aug. 17	1470	.....	36	751
Paper from bark. Manufacture of	J. M. Allen	342,991	June 1	296	.....	35	1060
Paper from continuous rolled sheets. Device for tearing wrapping	A. W. Jerome	354,981	Dec. 28	1930	511	37	1387
Paper from electricity. Freeing	J. M. Arnold	341,788	May 11	1126	298	35	725
Paper from the tobacco-plant. Manufacture of	W. W. Bennett	346,887	Aug. 10	553	.....	36	575
Paper. Grease-proof	D. Heston	337,155	Mar. 2	362	95	34	993
Paper-hanger's roller	W. P. Pope	352,351	Nov. 9	903	242	37	633
Paper-hanger's roller	A. M. Rowland	354,810	Dec. 21	1691	446	37	1329
Paper-hangings, &c. Exhibitor for	L. A. Ely	337,313	Mar. 2	587	154	34	1034
Paper-holder	A. Hadley	346,154	July 27	1932	498	36	370
Paper-holder	G. A. Hinckley	346,159	July 27	1959	499	36	372
Paper-holder	M. Lester, Jr	340,224	Apr. 20	1621	410	35	302
Paper-knife, clip, and book-rest. Combined	J. Wheeler	341,976	May 18	1378	367, 368	35	780
Paper, &c. Machine for coating	J. Jordan	345,236	July 6	599	153	36	108
Paper. Machine for hanging	R. Haskell	344,374	June 29	2290	589	35	1452
Paper, &c. Machine for varnishing or sizing and applying colors to	W. Macrone	336,331	Feb. 16	1796	470	34	772
Paper. Machine for waterproofing or sizing	A. Segal	343,861	June 15	1571	398, 399	35	1306
Paper. Machine for waxing	A. H. Dingman	351,748	Nov. 2	27	7	37	464
Paper. Machine for waxing	E. G. Sparks	344,142	June 22	1961	501, 502	35	1384
Paper-machines. Automatic guide-roll attachment for	R. Smith	339,703	Apr. 13	895	220	35	164
Paper-machines. Steam-condensing doctor for	F. Brewer	334,415	Jan. 19	1309	355	34	257
Paper-machines. Stock-regulator for	C. Potter	337,080	Mar. 2	261	69, 70	34	975
Paper-makers' use. Manufacture of sizing compounds for	C. Semper	333,680	Jan. 5	242	.....	34	47
Paper-makers' use. Sizing material for	C. Semper	351,210	Oct. 19	1581	.....	37	303
Paper-makers' use. Sizing material for	C. Semper	351,211	Oct. 19	1583	.....	37	303
Paper-making	F. W. Miller and J. J. Newman	340,810	Apr. 27	2443	643	35	457
Paper-making. Dandy-roll for use in	C. Smith	352,493	Nov. 9	1072	288	37	667
Paper-making machine	J. P. Browne	345,274	July 13	662	168	36	126
Paper-making machine	W. F. Edwards	334,072	Jan. 12	801	219, 220	34	157
Paper-making machine	S. H. Hodges	335,030	Jan. 26	2139	569	34	416
Paper-making machine	W. A. Lindsay	340,335	Apr. 20	1777	454	35	330
Paper-making machine	R. Smith	350,607	Oct. 12	715	194	37	138
Paper-making machine	E. Wilmont	346,079	July 20	1824	471	36	341
Paper-making machines. Felt-cleaning device for	H. Allan and L. S. Mason	346,013	July 20	1742	448	36	325
Paper-making machines. Top for suction-boxes of	C. J. Bradbury	342,497	May 25	2135	564	35	925
Paper-making. Pulp-digester for	G. W. Russell	341,434	May 4	638	175	35	620
Paper-making. Pulp-digester for	C. C. Springer	335,046	Jan. 26	2162	575	34	420
Paper-making. Pulp-producing apparatus for	G. W. Russell	341,435	May 4	639	175	35	621
Paper. Making tracing, reprinting, and transfer	J. Leidl	355,022	Dec. 28	1986	.....	37	1397
Paper. Manufacture of	F. Beck	342,315	May 25	1867	.....	35	879

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Paper-mill. Speed-regulator for the rolls of a	J. L. Campbell	333,827	Jan. 5	455	124	34	85
Paper. Moth and disinfectant	W. H. H. Childs	351,424	Oct. 26	1911	497	37	306
Paper or felting for carpet-lining. Elastic	L. Bastet	346,799	Aug. 3	425	.....	36	543
Paper. Package of toilet	O. H. Hicks	352,951	Nov. 23	1693	454	37	799
Paper. Packing-frame for	C. F. Spaulding	353,471	Nov. 30	2448	653	37	949
Paper pail	H. Carmichael	342,177	May 18	1650	441	35	831
Paper pails. Machine for making	F. D. Peck	341,163	May 4	264	76	35	553
Paper. Parafining	W. B. Howe	343,375	June 8	899	226	35	1178
Paper-pulp	A. Mitscherlich	344,323	June 22	2209	568 / 569	35	1429
Paper-pulp. Boiler for treating wood, &c., for	J. Makin	335,943	Feb. 9	1211	322	34	664
Paper-pulp. Boiling fibers with sulphites for the manufacture of	A. Mitscherlich	337,694	Mar. 9	1093	282	34	1129
Paper-pulp digester	C. E. Ball	336,078	Feb. 16	1407	373	34	706
Paper-pulp digester	C. Bremaker	353,731	Dec. 7	114	31	37	1027
Paper-pulp engines. Bar or blade for the rolls of	C. Anderson	349,332	Sept. 21	1069	274	36	1259
Paper-pulp-finishing engine	S. L. Gould	337,489	Mar. 9	844	214	34	1084
Paper-pulp from wood. Manufacture of	G. H. Pond	354,931	Dec. 28	1865	493	37	1374
Paper-pulp. Lead-lined boiler for	J. Makin	344,120	June 22	1935	494	35	1380
Paper-pulp. Machine for forming pails from	H. R. Butterfield	335,055	Jan. 26	2174	578	34	422
Paper-pulp. Machine for the reduction of wood to	A. H. Ritchie	351,285	Oct. 19	1678	441	37	319
Paper-pulp. Making	F. J. McCormick	335,466	Feb. 2	524	.....	34	535
Paper-pulp. Manufacture of	G. E. Moore	354,432	Dec. 14	1130	303	37	1220
Paper-pulp mills. Block-presser for	W. Curtis	342,072	May 18	1520	406	35	806
Paper-pulp mills. Block-presser for	W. Curtis	342,073	May 18	1521	406	35	807
Paper-pulp molded heads of barrels while being dried. Mechanism for use in supporting the	G. W. Laraway	345,705	July 20	1302	337	36	248
Paper-pulp. Process of making hollow ware from	H. Carmichael	342,178	May 18	1650	441	35	831
Paper-pulp. Rag-engine for beating	J. H. Horne	347,043	Aug. 10	775	207	36	616
Paper-pulp screen	R. L. Howe	341,417	May 4	622	170	35	618
Paper-pulp screen	C. Russell and P. H. Cragin	347,893	Aug. 24	2012	533	36	859
Paper-pulp screen or dresser	E. Riley	342,041	May 18	1468	393	35	797
Paper-pulp. Wood-grinding machine for	T. H. Savery	341,172	May 4	282	80, 81	35	556
Paper-receptacle	D. B. Cole	350,808	Oct. 12	1004	269	37	190
Paper-receptacle	O. H. Hicks	351,980	Nov. 2	365	100	37	526
Paper-roll holder and cutter	C. C. Johnson	335,202	Feb. 2	162	42	34	470
Paper sacks. Device for crimping	E. C. Godfrey	349,391	Sept. 21	1174	304	36	1279
Paper satchel	J. T. Schaffer and B. L. Steefel	335,777	Feb. 9	980	259	34	623
Paper-shells for cartridges. Mechanism for cupping	A. Dickerman	347,165	Aug. 10	955	255 / 256	36	649
Paper. Sizing	C. Kellner	352,759	Nov. 16	1430	.....	37	741
Paper. Sizing	A. Mitscherlich	336,613	Feb. 9	1303	.....	34	680
Paper-sizing composition	J. Jordan	336,569	Feb. 23	2122	.....	34	837
Paper-stock. Boiler or digester for reducing wood and other	H. A. Frambach, R. P. Dart, and A. J. Vollrath.	348,159	Aug. 24	2391	642	36	931
Paper-stock. Jordan engine for grinding	L. P. Clawson	341,223	May 4	357	99	35	570
Paper-stock. Machine for grinding	F. Kurtz	343,714	June 15	1394	348	35	1272
Paper-stock or wood pulp, &c. Treating articles made of	F. C. Robinson and W. H. Cothren	347,200	Aug. 10	1001	.....	36	657
Paper-stock. Treating vegetable substances for making	J. D. Tompkins	340,640	Apr. 27	2208	581	35	415
Paper-trimmer and gage-board	J. Panyard	342,127	May 18	1591	425	35	820
Paper-trimming machine	F. M. Edmunds	341,895	May 18	1277	342	35	762
Paper tubes. Machine for making	M. D. Knowlton	337,165	Mar. 2	376	98	34	995
Paper tubes. Machine for making	M. D. Knowlton	350,830	Oct. 12	1036	276	37	196
Paper-tying apparatus	J. S. Shannon	344,995	July 6	286	72	36	52
Paper vessels. Machine for trimming the ends of	H. W. Leonard and J. Stevens	335,078	Jan. 26	2205	586	34	428
Paper. Watermarked	Z. Crane, Jr	353,666	Dec. 7	18	6	37	1010
Paper. Waxing	I. Sherck and J. Batig, Jr	349,530	Sept. 21	1362	354	36	1316
Paper webs into rolls. Apparatus for winding	J. J. Manning	344,187	June 22	2026	518	35	1397
Paper webs. Machine for winding	J. J. Manning	339,796	Apr. 13	1019	252	35	186
Paper-weight	F. P. F. Mullins	338,235	Mar. 16	1827	477	34	1271
Paper with paraffine. Coating	W. B. Howe and M. D. Knowlton	344,965	July 6	227	58	36	42
Paper, &c., with wax. Apparatus for coating	I. Sherck and J. Batig, Jr	349,531	Sept. 21	1363	354	36	1316
Papers. Device for stringing and filing	W. E. Elam	350,976	Oct. 19	1242	330	37	240
Papers. Display and retail device for fancy	D. J. O'Sullivan	354,208	Dec. 14	826	219	37	1165
Papers, maps, &c. Case for	S. H. Harrington	344,444	June 29	2381	613	35	1468
Papers. Receptacle for storing and preserving	H. Brown	352,036	Nov. 2	445	120	37	542
Paperie and writing-desk	S. Ross	353,774	Dec. 7	666	46	37	1038
Paraffine and extracting oil from oleaginous materials. Purifying	F. X. Byerley	347,288	Aug. 10	1124	301	36	679
Paraffine distillate. Apparatus for cutting up	C. Vose	346,447	July 27	2350	604	36	448
Paraffine from petroleum distillate. Extracting	C. Vose	346,448	July 27	2352	604	36	448
Parasol, &c	C. E. Fosburgh	344,094	June 22	1897	486	35	1373
Parasol or umbrella	D. C. Fischel	334,368	Jan. 12	1245	335	34	328
Parasol or umbrella	J. T. Smith	343,079	June 1	429	110	35	1085
Parasol or umbrella	J. T. Smith	343,080	June 1	431	111	35	1085
Parer, corer, and slicer. Apple	W. A. C. Oakes	340,675	Apr. 27	2255	594	35	422
Parer, slicer, and corer	P. T. Gates	339,542	Apr. 6	633	154	35	115
Parer, slicer, and corer. Apple	W. W. McMillan	334,130	Jan. 12	883	242	34	172
Paring and coring machine. Fruit	T. Spedding	341,514	May 11	749	202	35	652
Paring and stoning peaches. Machine for	W. A. C. Oakes	348,532	Aug. 31	2929	787	36	1039
Paring machine. Fruit	H. Cottrell	340,937	Apr. 27	2608	687	35	486
Paring machines. Knife-head for apple	W. A. C. Oakes	352,774	Nov. 16	1448	390	37	745
Parlor-fountain. Self-acting	J. Kesel	340,129	Apr. 20	1472	372	35	275
Parlor-heater and hot-air furnace. Portable	W. Turton	354,817	Dec. 21	1702	450	37	1332
Parturition-shears	A. Cullon	335,796	Feb. 9	1006	266	34	628
Passenger-elevator	C. H. Read, Jr	348,586	Sept. 7	73	22	36	1061
Passenger-recorder	A. Torrey and D. J. Casey	349,767	Sept. 28	1697	438	36	1385
Pasting-machine	A. Kingsbury	347,246	Aug. 10	1059	283	36	668
Pastry-board	I. Yonart	345,470	July 13	938	236	36	174
Patient's elevator and perambulator	M. Hammond	353,133	Nov. 23	1963	525	37	850
Patten	H. Holland	334,383	Jan. 12	1257	339	34	241

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Pattern:							
See Boot-pattern. Garment-pattern.							
Pattern and work holding device	J. W. White	343,215	June 8	640	159	35	1132
Pattern for drafting garments. Adjustable	A. McDowell	342,216	May 18	1694	452	35	840
Pattern for garments	H. Moschcowitz	350,073	Sept. 28	2111	546	36	1465
Pattern-lining	R. F. Halleck	335,919	Feb. 9	1182	314	34	659
Pattern-lining	M. Stocker	337,030	Mar. 2	203	54	34	963
Pattern-sheet	J. Schumacher	353,508	Nov. 30	2501	667	37	958
Patterns. Machine for perforating	C. P. Pease	354,435	Dec. 14	1139	304	37	1221
Patterns. Manufacturing dies for producing perforated	H. B. Cobb	346,580	Aug. 3	165	44	36	491
Pavement	H. A. Daniels and A. G. Dickinson	346,735	Aug. 3	358	96	36	530
Pavement	C. C. Gilman	338,511	Mar. 23	2211	580	34	1347
Pavement	F. G. Johnson	340,123	Apr. 20	1458	369	35	272
Pavement	L. Warstler and A. C. Pontius	333,576	Jan. 5	109	30	34	23
Pavement. Artificial stone or concrete	J. H. Bates	350,101	Oct. 5	9	3	37	4
Pavement. Asphalt	M. Macleod	355,023	Dec. 28	1987	.....	37	1397
Pavement. Concrete	A. L. Barber	338,381	Mar. 23	2036	534	34	1315
Pavement. Iron	M. Meyer	344,718	June 15	1400	349	35	1273
Pavement. Self-supporting combination	C. Beuttel	347,557	Aug. 17	1514	402	36	760
Pavement. Street	M. O'Rourke	340,893	Apr. 27	2551	672	35	475
Pavement. Tile	E. H. Barrett	347,893	Aug. 24	1962	.....	36	852
Pavement. Wooden	J. M. Croft	343,162	June 8	566	142	35	1119
Pavements. Construction of concrete	A. L. Barber	338,382	Mar. 23	2037	534	34	1315
Pavements. Construction of concrete	F. V. Greene	349,645	Sept. 21	1505	390	36	1345
Pavements. Joint marking and dressing tool for cement	M. Macdonald	334,125	Jan. 12	875	240	34	170
Pavements. Stamp or die for cement	C. Sutton	342,980	June 1	285	74	35	1058
Paving and roofing purposes. Composition of matter to be used for	H. Staples	344,210	June 22	2060	.....	35	1403
Paving-block	A. Pimm	340,153	Apr. 20	1506	381	35	282
Paving-block machine	D. G. Ross	339,015	Mar. 30	2942	778	34	1481
Paving-blocks. Machine for cutting	R. W. Miller	346,672	Aug. 3	279	77	36	515
Paving. Composition of matter for	P. C. Smith	339,340	Apr. 6	324	.....	35	61
Paving, roofing, and building compound	A. Walrath	342,852	June 1	105	.....	35	1025
Paving stone, slab, &c. Terro metallic	L. Promoli	345,726	July 20	1335	346	36	253
Paving-stones, &c. Manufacture of terro-metallic	L. Promoli	345,865	July 20	1451	.....	36	273
Paving stones, slabs, &c. Furnace for the manufacture of terro-metallic	L. Promoli	345,727	July 20	1336	346 / 347	36	254
Pawl-and-ratchet mechanism	G. M. Williams	348,083	Aug. 24	2288	613	36	911
Pawl-and-ratchet mechanism	G. M. Williams	351,238	Oct. 19	1616	424	37	309
Pea-sheller	M. F. Kidd	337,960	Mar. 16	1455	377	34	1200
Peanut-cleaning machine	H. M. Smith	350,326	Oct. 5	302	86	37	61
Peanut-cleaning machine	B. H. Vellines	335,402	Feb. 2	440	113	34	520
Peanut-roaster	I. Hicks	337,952	Mar. 16	1448	375	34	1199
Peanut-roaster	M. and T. J. Lalley, W. A. Lang, and A. J. Stephens.	339,433	Apr. 6	456	111	35	85
Peat. Treating	S. Heimann	337,495	Mar. 9	851	.....	34	1085
Pebbling cloth or other web	A. W. Pope	354,581	Dec. 21	1357	360	37	1267
Pegging-jack	S. O. Brown	353,200	Nov. 23	2062	550	37	870
Pegging-machine	E. E. Bean	342,278	May 18	1790	474 / 475	35	857
Pegging-machine	F. Chase	338,930	Mar. 30	2808	740 / 741	34	1458
Pegs. Machine for forming and driving compound	E. C. Bennett	336,547	Feb. 23	2088	548 / 549 / 550	34	832
Pen	C. Rohn	341,390	May 4	590	161	35	612
Pen and brush holder	D. B. Smith	340,382	Apr. 20	1848	474	35	344
Pen and fountain pen-holder. Fountain	F. S. Bartram	338,019	Mar. 16	1541	400	34	1215
Pen and pencil case	A. W. Wood	339,123	Mar. 30	3089	817	34	1505
Pen and pencil holder	F. P. Peiter	343,391	June 8	924	231	35	1182
Pen and pencil holder	T. W. F. Smitten	339,817	Apr. 13	1042	259	35	191
Pen. Cattle	E. T. Holton	337,681	Mar. 9	1075	277 / 278	34	1126
Pen. Drawing	C. M. Burns, Jr.	333,504	Jan. 5	132	36	34	27
Pen for swine	J. Balmer	349,200	Sept. 14	906	233	36	1218
Pen. Fountain	F. C. Brown	345,411	July 13	852	213	36	158
Pen. Fountain	F. C. Brown and D. W. Beaumel	353,399	Nov. 30	2342	626	37	928
Pen. Fountain	A. K. Cross	348,661	Sept. 7	179	48	36	1079
Pen. Fountain	A. B. Davis	351,582	Oct. 26	2149	556	37	412
Pen. Fountain	J. C. Demarest	340,865	Apr. 27	2517	662	35	470
Pen. Fountain	D. C. Demarest	353,053	Nov. 23	1851	500	37	827
Pen. Fountain	E. J. Hall	341,001	May 4	40	11	35	513
Pen. Fountain	W. H. Hildebrand	348,395	Aug. 31	2786	732	36	1001
Pen. Fountain	J. Holland	351,033	Oct. 19	1315	353	37	258
Pen. Fountain	M. H. Kerner	349,721	Sept. 28	1653	421	36	1373
Pen. Fountain	J. Klaucke	337,838	Mar. 16	1286	333	34	1170
Pen. Fountain	N. F. Palmer	337,610	Mar. 9	992	255	34	1111
Pen. Fountain	N. F. Palmer	352,564	Nov. 16	1167	314	37	691
Pen. Fountain	G. H. Sackett	347,961	Aug. 24	2120	565	36	880
Pen. Fountain	G. H. Sackett	349,752	Sept. 28	1677	433	36	1381
Pen. Fountain	G. H. Sackett	349,753	Sept. 28	1678	433	36	1382
Pen. Fountain	G. H. Sackett	353,162	Nov. 23	2006	538	37	859
Pen. Fountain	W. W. Stewart	351,718	Oct. 26	2334	608	37	447
Pen. Fountain	C. W. Taylor	340,166	Apr. 20	1525	385	35	285
Pen. Fountain	C. W. Taylor	346,330	July 27	2179	559	36	417
Pen. Hog	L. F. Chenoweth	349,480	Sept. 21	1296	337	36	1302
Pen-holder	G. A. Goldsmith	351,832	Nov. 2	140	39	37	425
Pen-holder	C. Hollowede	336,644	Feb. 23	2230	582	34	855
Pen-holder	M. J. Hughes	336,856	Feb. 23	2510	662	34	909
Pen-holder	S. Kraus	333,639	Jan. 5	186	50	34	37
Pen-holder	G. W. Michael	346,670	Aug. 3	278	76	36	515

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Pen-holder	S. S. Rogers	341,350	May 4	528	146	35	600
Pen-holder. Bifurcated	J. Wyttenbach	336,540	Feb. 16	2074	545	34	823
Pen-holder. Fountain	C. B. Rowley	346,131	July 27	1894	489	36	363
Pen-holder. Fountain	W. W. Stewart	354,664	Dec. 21	1490	395 396	37	1291
Pen-holders. Cushion and guard for	S. S. Harman	344,961	July 6	222	57	36	41
Pen. Multiple-pointed	T. W. F. Smitten	337,712	Mar. 9	1117	288	34	1132
Pen-rack or pen and pencil holder	J. M. Keep	340,322	Apr. 20	1763	450	35	328
Pen. Stylographic	O. Bussler	350,037	Sept. 28	2056	531	36	1455
Pens and pencils. Protective holder for	J. W. Kensett	352,827	Nov. 16	1519	409	37	757
Pencil	T. O. L. Schrader	350,948	Oct. 19	1194	318	37	232
Pencil-clasp	H. C. Benson	333,590	Jan. 5	127	35	34	26
Pencil. Flexible lead	R. P. Wallis	337,466	Mar. 9	818	.....	34	1080
Pencil-holder	B. F. Eshelman	341,800	May 11	1140	302	35	728
Pencil-holder	J. Trebentscheck	349,914	Sept. 28	1890	488	36	1424
Pencil. Lead	C. A. Cotterill and L. A. Conner, Jr.	340,423	Apr. 20	1892	486	35	352
Pencil. Lead	S. Kraus	333,638	Jan. 5	186	50	34	37
Pencil or crayon holder	F. J. W. Fischer	335,908	Feb. 9	1169	311	34	657
Pencil-sharpener	E. B. Dunn	352,455	Nov. 9	1031	277	37	659
Pencil-sharpener	C. E. Gould and F. H. Cook	342,350	May 25	1921	507	35	888
Pencil-sharpener	J. M. Griffith	350,930	Oct. 19	1168	311	37	227
Pencil-sharpener	T. A. Henderson	353,061	Nov. 23	1861	503	37	829
Pencil-sharpener	J. Jenkins	335,819	Feb. 9	1034	273	34	633
Pencil-sharpener	W. H. Lamson	334,242	Jan. 12	1065	282	34	206
Pencil-sharpener	W. P. Marston	350,260	Oct. 5	219	63	37	46
Pencil-sharpener	S. E. Nutting	354,604	Dec. 21	1683	444	37	1328
Pencil-sharpener	G. H. Phelps	334,803	Jan. 26	1842	491	34	363
Pencil sharpener	M. Rush	353,761	Dec. 7	150	42	37	1035
Pencil-sharpener	A. S. Vedder	350,330	Oct. 5	310	88	37	63
Pencil-sharpener	F. Worn	338,904	Mar. 30	2777	731	34	1452
Pencil-sharpening machine	D. F. Ranney	350,394	Oct. 5	383	111	37	77
Pencils and other implements. Holder for	J. Appleby	346,014	July 20	1743	449	36	325
Pencils and pen-holders. Yoke for connecting	T. W. F. Smitten	339,705	Apr. 13	900	221	35	165
Pencils. Apparatus for sharpening	J. L. Clarke	346,356	July 27	2209	566	36	423
Pencils. Erasive guard for writing	W. K. Foster	342,956	June 1	258	66	35	1053
Pencils. Machine for sharpening	D. F. Ranney	340,818	Apr. 27	2453	645	35	459
Pencils, &c. Rubber-tip attachment for lead	G. Singleton	345,865	July 20	1531	396	36	287
Pencils. Sheath for lead	O. Bussler	345,364	July 13	783	198	36	147
Pendulum	C. A. Mahony	334,958	Jan. 26	2033	543	34	397
Pendulum. Compensation	J. Gerhardt	352,461	Nov. 9	1040	280	37	661
Perch for fowls	I. J. Baxter, Jr	342,894	June 1	167	43	35	1036
Percolator	J. Berry	342,998	June 1	304	78	35	1062
Percolator	R. L. Nelson	340,811	Apr. 27	2445	643	35	457
Perforating-machine	C. E. Bentley	343,752	June 15	1442	359	35	1281
Perforating-machine	S. D. Layman and H. C. Hansen	354,913	Dec. 28	1841	487	37	1370
Perforating-machine	J. Schumacher	339,937	Apr. 13	1202	299 300	35	221
Perforating-machine	E. B. and E. B. Stimpson, Jr	345,189	July 6	536	137 138	36	98
Perforating-machine	E. B. and E. B. Stimpson, Jr	345,190	July 6	538	138	36	98
Perforating-machine	H. Wallace	348,434	Aug. 31	2783	748	36	1013
Perforating-machine. Rotary	E. B. Stimpson, Jr	354,665	Dec. 21	1494	396	37	1291
Permutation-lock	C. A. Beggs and J. S. Coxey	345,270	July 13	655	167	36	125
Permutation-lock	H. Clarke	338,338	Mar. 23	1966	517 518	34	1303
Permutation-lock	M. Frankel	351,026	Oct. 19	1338	351	37	257
Permutation-lock	J. M. Grau	346,542	Aug. 3	117	32	36	483
Permutation-lock	A. J. Haley	355,076	Dec. 28	2064	542	37	1411
Permutation-lock	L. G. Knowles	347,618	Aug. 17	1662	425	36	778
Permutation-lock	M. Lynch and W. F. Harrison	338,234	Mar. 16	1826	477	34	1271
Permutation-lock	J. H. and T. D. Morris	344,977	July 6	255	64	36	46
Permutation-lock	J. H. and T. D. Morris	351,995	Nov. 2	390	106	37	531
Permutation-lock	R. H. Root	345,323	July 13	730	184	36	138
Permutation-lock	A. Stoner	338,886	Mar. 30	2750	723	34	1447
Permutation-lock	W. B. Turman	336,358	Feb. 16	1835	481	34	780
Permutation-lock. Electro-magnetic	F. Sedgwick	347,068	Aug. 10	819	218 219	36	624
Petroleum and gas engine	J. Spiel	349,369	Sept. 21	1139	293 294 295	36	1272
Petroleum and gas motor	G. Ragot and G. Smyers	350,769	Oct. 12	938	252 253	37	178
Petroleum and similar hydrocarbons into acids. Converting	E. Schaal	335,962	Feb. 9	1234	.....	34	669
Petroleum. Apparatus for burning	A. J. Stevens	348,700	Sept. 7	232	61, 62	36	1089
Petroleum. Apparatus for refining crude	G. L. Benton	342,565	May 25	2225	591	35	942
Petroleum-oil. Refining crude	G. L. Benton	342,564	May 25	2223	591	35	942
Petroleum. Refining	J. B. Grant and A. Mason	339,545	Apr. 6	636	155	35	115
Phaeton-spring	W. J. Wayne	338,452	Mar. 23	2132	557	34	1333
Phenyl-methyl oxyquinicine. Production of	H. Von Perger	348,483	Aug. 31	2855	.....	36	1026
Phosphate rock. Machine for washing	E. C. Bacon	335,673	Feb. 9	820	218	34	594
Phosphate rock, &c. Means for drying	F. Brotherhood	342,678	May 25	2385	631 632	35	972
Phosphates from slags. Manufacture of	C. Scheibler	353,825	Dec. 7	243	.....	37	1051
Phosphates. Making	J. J. Dunne	345,625	July 13	1182	.....	36	219
Photo-chronograph	J. J. Higgins	351,108	Oct. 19	1445	378 379	37	276
Photo-developing box	W. H. Lewis	353,493	Nov. 30	2476	661	37	954
Photo-engraving	C. T. Iago	339,423	Apr. 6	445	.....	35	83
Photograph or card holder	J. Petermann	353,326	Nov. 30	2234	598	37	908
Photographer's camera attachment	F. Collins	351,853	Nov. 2	182	50	37	492
Photographer's chair	J. H. Smith	354,259	Dec. 14	906	239	37	1177
Photographers. Pan for the use of	W. I. Adams	345,871	July 20	1539	398	36	288

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Photographer's plate-holder	N. S. Bowdish	355,056	Dec. 28	2039	536	37	1406
Photographer's wash-box	T. H. Kelley	339,898	Apr. 13	1150	268	35	212
Photographic apparatus	D. H. Houston	353,084	Dec. 28	2077	545, 546	37	1413
Photographic apparatus. Shutter for	J. K. Beach	339,840	Apr. 13	1077	268	35	198
Photographic background and foreground. Revolving	I. A. Wetherby	337,904	Mar. 16	1371	356	34	1186
Photographic camera	R. A. Anthony and W. H. Lewis	349,133	Sept. 14	824	209	36	1202
Photographic camera	E. B. Barker	348,712	Sept. 7	246	65, 66	36	1092
Photographic camera	J. S. Johnston	350,682	Oct. 12	830	224	37	158
Photographic camera	W. H. Lewis	342,212	May 18	1691	450	35	839
Photographic camera	W. H. Lewis and E. B. Barker	342,211	May 18	1689	450	35	838
Photographic camera	A. G. Tisdel	348,301	Aug. 31	2604	701	36	978
Photographic camera	O. Varing	347,451	Aug. 17	1369	364	36	732
Photographic-camera attachment	F. Collins	341,886	May 18	1262	338, 339	35	759
Photographic camera. Portable	R. D. Gray	346,199	July 27	1990	513	36	382
Photographic camera. Portable	S. C. Nash	350,315	Oct. 5	285	81, 82	37	58
Photographic-camera shutter	S. W. Geery, F. W. Jackson, and C. B. Day.	335,518	Feb. 2	599	155, 156	34	547
Photographic-camera shutter	C. Prosch	352,098	Nov. 2	534	142	37	559
Photographic-camera stand	W. H. Lewis and E. B. Barker	336,815	Feb. 23	2461	646	34	900
Photographic cameras. Adjustable plate-holder for	M. E. Hawks	346,546	Aug. 3	123	33	36	483
Photographic cameras. Attachment for focusing	F. Collins	341,885	May 18	1262	338	35	759
Photographic cameras. Timing attachment for	C. W. Stiff	336,356	Feb. 16	1831	480, 481	34	779
Photographic dry-plates. Machine for manufacturing	F. O. and F. E. Stanley	345,331	July 13	737	186	36	139
Photographic negatives. Apparatus for washing	W. H. H. Whiting	335,002	Jan. 26	2091	558	34	408
Photographic negatives. Producing impressions in line or stipple from	J. Gast	344,648	June 29	2660	.....	35	1521
Photographic-paper box	W. Boyce	346,353	July 27	2205	565	36	421
Photographic paper negatives. Holder for	E. B. Barker	343,357	June 8	870	219	35	1172
Photographic paper on its support, &c. Composition for holding	T. C. Roche	346,224	July 27	2026	.....	36	389
Photographic-plate holder	P. H. Wheeler	346,392	July 27	2265	580	36	433
Photographic plates. Apparatus for washing	H. C. Price	354,344	Dec. 14	1028	273	37	1201
Photographic plates. Tray for developing	R. E. Atkinson	337,547	Mar. 9	919	235	34	1098
Photographic-print washer	W. G. Entrekin	353,849	Dec. 7	279	73, 74	37	1057
Photographic printing	R. B. West	345,753	July 20	1374	.....	36	260
Photographic printing	R. B. West	345,938	July 20	1631	430	36	306
Photographic-printing frame	W. I. Adams	346,255	July 27	2078	534	36	398
Photographic-printing-frame stand	W. M. De Voe	340,987	May 4	24	7	35	510
Photographic-printing frames. Automatic register for	W. F. Guthrie and N. C. Peterson	347,292	Aug. 10	1128	302	36	680
Photographic printing. Graphic negative-film for	S. C. Duval	345,220	July 6	576	147	36	105
Photographic printing. Preparing paper for	R. B. West	341,583	May 4	146	.....	35	532
Photographic sensitive paper. Apparatus for manufacturing double-film	H. J. Newton	343,387	June 8	919	230	35	1181
Photographic sensitive paper. Roller for	E. B. Barker	341,633	May 11	924	245	35	686
Photographic sensitized paper. Case for	W. H. Lewis and E. B. Barker	337,963	Mar. 16	1459	378	34	1201
Photographic sheets. Burnishing remounted multiple	O. L. Hulbert	344,781	June 29	2835	734	35	1552
Photographic shutter	A. G. Clark	341,130	May 4	217	66	35	545
Photographic shutter	G. F. Green	342,693	May 25	2413	639	35	977
Photographic shutter	J. A. Hoedemaker and G. W. O'Harra	340,213	Apr. 20	1601	405	35	299
Photographic shutter	C. F. Marvin	339,910	Apr. 13	1166	290	35	215
Photography for colored impressions. Carbon	L. J. H. Cellérier	353,893	Feb. 9	1150	.....	34	654
Physician's buggy-case	J. J. Stephens	344,212	June 22	2061	527	35	1403
Physicians' prescription-papers, &c. Case for	F. Uhlich	338,807	Mar. 30	2633	693	34	1426
Piano-action	I. Bullard	334,511	Jan. 19	1448	389	34	2-2
Piano-action	J. W. Cooper	348,111	Aug. 24	2323	623	36	918
Piano-action	E. and C. Keller and G. E. Bauhahn	346,753	Aug. 3	375	101	36	534
Piano-action frame. Upright	W. and C. E. Bourne	338,918	May 30	2796	737	34	1456
Piano action. Upright	I. Fuso	334,768	Jan. 26	1799	479	34	355
Piano action. Upright	F. M. Lawson	350,006	Sept. 28	2019	521	36	1448
Piano action. Upright	R. E. Letton	345,706	July 20	1303	337	36	248
Piano and office chair	C. E. Davis	343,626	June 15	1553	315	35	1248
Piano-case	J. W. Cooper	348,110	Aug. 24	2321	622	36	918
Piano-case	T. H. Perry	353,583	Nov. 30	2609	696	37	979
Piano case. Upright	S. Brambach	334,933	Jan. 26	1999	533	34	392
Piano case. Upright	W. Haubner	345,505	July 13	986	249	36	183
Piano case. Upright	S. La Grassa	354,323	Dec. 14	995	264	37	1194
Piano case. Upright	H. Toaspern	352,280	Nov. 9	809	216	37	614
Piano-chair. Spring-back	C. E. Davis	354,163	Dec. 14	794	210	37	1158
Piano-damper	E. and C. Keller and G. E. Bauhahn	348,676	Sept. 7	200	53	36	1083
Piano. Dummy	J. Casey	344,165	June 22	1995	511	35	1390
Piano-forte	C. F. Chickering	350,292	Oct. 5	261	75	37	54
Piano-forte	G. M. Guild	351,761	Nov. 2	45	12	37	467
Piano-forte	G. M. Guild and B. C. Burnham	336,565	Feb. 23	2118	555	34	837
Piano-forte	J. Hoffmann	350,248	Oct. 5	206	59	37	43
Piano-forte	E. Höfinghoff	353,453	Nov. 30	2423	647	37	944
Piano-forte damper-action	C. Bayer	354,618	Dec. 21	1425	378	37	1279
Piano-forte damper-action	C. Bayer	354,619	Dec. 21	1426	378	37	1279
Piano-forte. Upright	J. Casey	355,001	Dec. 28	1957	516	37	1391
Piano-fortes. Pianissimo stops for	V. Bessier	337,552	Mar. 9	927	237	34	1099
Piano-frames. Capodastro-bar for	H. Kroeger	351,326	Oct. 19	1734	456	37	329
Piano-key-bed support	F. L. Wing	350,517	Oct. 12	586	163	37	114
Piano music-rack	H. Kranich and J. Bach	344,485	June 29	2437	626	35	1478
Piano-pedal stool	H. Stretcher	345,005	July 6	304	76	36	55
Piano-string bridge	J. W. Reed	338,779	Mar. 30	2601	685	34	1420
Piano-tuning pin	A. Felldin	343,805	June 15	1502	378	35	1293
Piano tuning-pin	R. McMillan	345,711	July 20	1309	339	36	249
Piano tuning-pin	A. Uhlig	345,743	July 20	1361	354	36	258

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Piano. Upright	F. Imhorst	348,629	Sept. 7	135	38	36	1072
Pianos. Action-rail for	C. D. Pease	344,677	June 29	2691	698	35	1527
Pianos and organs. Music sheet and book supporter for	H. Worrall	336,613	Feb. 23	2187	571	34	848
Pianos. Damper for upright	J. Herrburger	350,625	Oct. 12	745	204	37	143
Pianos. Double sounding-board for	C. Marx	343,644	June 15	1277	321	35	1252
Pianos. Folding lamp-shelf for	R. Prause	348,343	Aug. 31	2652	715	36	987
Pianos. Harp-stop for upright	J. Hardman and W. H. Dutton	339,170	Apr. 6	71	21	35	16
Pianos. Key-bottom for	S. La Grassa	340,219	Apr. 20	1612	408	35	300
Pianos. Key-bottom for	S. La Grassa	347,356	Aug. 17	1238	327	36	707
Pianos. Metallic frame for	J. Grauer	351,696	Oct. 26	2309	599	37	442
Pianos. Music-rack for	J. F. Conover	352,300	Nov. 9	836	225	37	620
Pianos. Music-rest for	J. Hardman	339,169	Apr. 6	70	21	35	15
Pianos. Mute-bar damper for upright	P. Guehlin	353,301	Nov. 30	2201	589	37	903
Pianos. Note-indicator for	C. Ress	346,222	July 27	2021	522	36	389
Pianos. Pedal attachment for	J. Cray	351,743	Nov. 2	19	5	37	462
Pianos. Repetition-action for	H. Schallehn	338,617	Mar. 23	2350	618	34	1370
Pianos. Stringing	S. Hansing	341,003	May 4	42	12	35	514
Pianos. Tuning-pin for	J. W. Carnes	352,395	Nov. 9	956	256	37	644
Pick	A. T. Moats	342,704	May 25	2431	645	35	980
Pick. Miner's	J. M. Matthews	354,331	Dec. 14	1008	267	37	1197
Picker:							
See Cotton-picker. Fruit-picker.							
Cotton-waste picker. Fruit and flower picker.							
Cranberry-picker. Loom-picker.							
Picker-teeth. Machine for flattening the shanks of	W. Crabb	354,463	Dec. 14	1178	316	37	1229
Picking or ginning machines. Doffing apparatus for	S. R. Parkhurst	337,014	Mar. 2	183	48	34	958
Picture-cord Wire	G. C. Tate, Jr	352,499	Nov. 9	1082	291	37	669
Picture-exhibitor	P. Klemann	343,130	June 1	515	130, 131	35	1099
Picture-exhibitor	F. W. Martini	349,114	Sept. 14	800	203	36	1197
Picture-frame	G. H. Thonssen	337,033	Mar. 2	206	54	34	963
Picture-frame attachment	M. A. Gerber and E. J. Nicholas	354,315	Dec. 14	985	261	37	1192
Picture-frame hanger	M. Lester, Jr	341,024	May 4	67	18	35	518
Picture-frame hanger	G. R. Taxis	340,165	Apr. 20	1524	385	35	285
Picture-frame. Knockdown	C. O. Baxter	341,955	Nov. 2	326	90, 91	37	518
Picture-frame molding. Machine for embossing	J. Stange	338,806	Mar. 30	2624	691	34	1424
Picture-frames, &c. Device for hanging	H. Vosburgh	351,673	Oct. 26	2279	590	37	436
Picture-hanger	D. Mitchell	351,932	Nov. 2	300	83	37	512
Picture-hanger	E. R. Taylor	341,964	May 18	1360	363	35	777
Picture-mat	J. D. Simmons and J. O. Hall	350,777	Oct. 12	950	255	37	180
Picture-nails, &c. Mechanism for the manufacture of	J. Caldwell and W. M. Smith	337,129	Mar. 2	333	86, 87	34	987
Pictures and photographs. Mount for	R. H. L. and E. Talcott	338,651	Mar. 23	2395	631	34	1378
Pictures. Making	D. Isaacson	335,755	Feb. 9	943	.....	34	616
Pictures. Making iron	S. Powel	337,703	Mar. 9	1106	.....	34	1131
Pie-crust clamp	R. W. Perry	340,152	Apr. 20	1505	380	35	282
Pie-lifter	E. T. Bradbury	348,717	Sept. 7	251	67	36	1094
Pie-plate lifter or culinary utensil	G. H. Hollidge	346,287	July 27	2116	544	36	405
Pigeon-hole case	H. D. Pursell	348,930	Sept. 7	534	141	36	1145
Pigeon-hole or post-office call-box	H. R. Towne	343,614	June 15	1241	311	35	1246
Pigments. Manufacture of white	G. T. Lewis	346,114	July 27	1866	482	36	358
Pikes. Die for forming	A. Sanford	337,620	Mar. 9	1004	258	34	1114
Pile. Box-	R. H. Libby	342,447	May 25	2058	543	35	912
Pile-driver	W. L. Clements	350,347	Oct. 5	330	94	37	67
Pile-driver	W. W. Holley	342,096	May 18	1556	416	35	813
Pile-driver. Steam	A. J. Dupuis	341,837	May 11	1191	318, 319	35	739
Pile-drivers. Nippers for	H. Von der Wülbeike	350,223	Oct. 5	180	52	37	37
Pile for wharves	G. S. Pidgeon	342,223	May 18	1706	454	35	842
Pile. Incased	J. W. Crary	352,045	Nov. 2	457	124	37	545
Piles. Metal extension-cap for	H. Sabine	340,820	Apr. 27	2456	646	35	459
Piles. Preserving	J. Cass	349,835	Sept. 28	1794	463	36	1405
Pill-roller	J. D. Kutzner	337,342	Mar. 2	617	162	34	1040
Pills, &c. Machine for making	C. H. Stimson, Jr	342,717	May 25	2448	650	35	983
Pillow-block	E. S. Newton	353,960	Dec. 7	450	132	37	1089
Pillow-sham holder	W. W. Ames	348,812	Sept. 7	365	99	36	1115
Pillow-sham holder	J. W. Beatty	341,441	May 11	657	177	35	633
Pillow-sham holder	W. T. Christy and J. W. Kohn	336,509	Feb. 16	2032	534	34	815
Pillow-sham holder	F. K. Hickok	341,241	May 4	379	104	35	575
Pillow-sham holder	J. A. Knight	336,653	Feb. 9	1363	360	34	691
Pillow-sham holder	C. F. Percival	334,278	Jan. 12	1126	302	34	217
Pillow-sham holder	F. L. Valette and C. D. Cady	342,655	May 25	2352	621	35	966
Pillow-sham holder and lifter	S. A. Souther and J. M. Taylor	350,470	Oct. 5	522	145	37	98
Pin:							
See Clothes-pin. Piano-tuning pin.							
Connecting-pin. Printing-press gage-pin.							
Flower-pin. Rolling-pin.							
Gage-pin. Safety-pin.							
Game-pin. Wrist-pin.							
Hair-pin.							
Pin	M. E. Grow	334,373	Jan. 12	1249	337	34	239
Pin for neck-wear. Retaining-	W. H. Hart, Jr	342,355	May 25	1931	509	35	889
Pin-heading machine. Safety-	J. Jenkins	349,225	Sept. 14	943	241	36	1225
Pin machine. Safety-	J. Jenkins	345,144	July 6	479	122	36	87
Pin machine. Safety-	J. Jenkins	349,223	Sept. 14	937	240	36	1224
Pin machine. Safety-	J. Jenkins	349,224	Sept. 14	941	241	36	1224
Pin machine. Safety-	J. Jenkins and E. H. Gaylord	344,837	July 6	55	13, 14	36	11
Pin-rails. Drum attachment for	A. F. Spear	337,020	Mar. 2	202	53	34	962
Pin ticket or tag	J. C. St. John	340,961	Apr. 27	2643	697	35	492
Pins. Machine for making safety-	J. Jenkins	349,226	Sept. 14	946	242	36	1225
Pinchers. Shoe-	R. B. Beach	346,886	Aug. 10	552	149	36	575
Pinch-bar	S. Fetter	354,778	Dec. 21	1651	437	37	1322
Pinch-bar	W. Franklin	354,053	Dec. 7	585	159	37	1112
Pinch-bar	M. A. Sheldon	335,389	Feb. 2	424	109	34	517

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Pages.
Pinion and ratchet. Manufacture of combined	G. E. Hart	338,961	Mar. 30	2846	750	34	1466
Pinion-cutting machine	F. Leman	350,142	Oct. 5	60	17, 18, 19, 20	37	14
Pinking or scalloping machine	E. Shaw	340,373	Apr. 20	1835	471	35	342
Pipe: *See* Blow-pipe. Casting pipe. Gas-supply pipe. Hose-pipe. Lead pipe. Organ-pipe. Service-pipe. Sewer-pipe. Sheet-metal pipe. Smoking-pipe. Soil or drain pipe. Stove-pipe. Tobacco-pipe. Water-closet overflow-pipe.							
Pipe	J. B. Root	335,631	Feb. 9	765	203	34	584
Pipe and boiler covering. Steam-	L. Aldrich	340,691	Apr. 27	2292	601	35	427
Pipe and hose coupling	G. Guillemin	344,312	June 22	2197	565	35	1427
Pipe and nut wrench	J. H. Bowers	347,157	Aug. 10	945	252	36	647
Pipe and nut wrench	C. C. Edgerly	342,078	May 18	1530	408	35	809
Pipe. Apparatus for producing cast-metal	D. Giles	339,402	Apr. 6	410	100, 101	35	76
Pipe case. Lead-	A. Kohler	341,663	May 11	966	256	35	693
Pipe-casing	W. H. Ainsworth	340,073	Apr. 20	1395	351	35	261
Pipe-cleaning device	W. H. Degges	351,500	Oct. 26	2025	526	37	388
Pipe-cleansing attachment	V. Bonzagni	353,413	Nov. 30	2363	629, 630	37	933
Pipe-connection	B. P. Bower	337,126	Mar. 2	326	85	34	986
Pipe-coupling	J. S. Adams	335,101	Feb. 2	1	1	34	441
Pipe-coupling	S. R. Dresser	350,421	Oct. 5	421	121	37	83
Pipe-coupling	J. L. Duff	349,146	Sept. 14	839	214	36	1205
Pipe-coupling	E. Kaylor and H. Pruse	345,146	July 6	484	123	36	88
Pipe-coupling	W. D. Lee	343,246	June 8	688	170	35	1140
Pipe-coupling	G. O. L. Leprévost-Bourgerel	347,461	Aug. 17	1383	367, 368	36	735
Pipe-coupling	D. M. Levier	354,560	Dec. 21	1326	352	37	1262
Pipe-coupling	F. I. Maule	340,801	Apr. 27	2433	640	35	455
Pipe-coupling	F. L. McGahan	336,129	Feb. 16	1477	390	34	719
Pipe-coupling	D. McKenzie, Jr.	349,511	Sept. 21	1337	347	36	1310
Pipe-coupling	J. Nuttall	342,305	May 18	1840	486	35	864
Pipe-coupling	J. Nuttall	353,580	Nov. 30	2605	695	37	978
Pipe-coupling	B. F. Ritchie	338,783	Mar. 30	2605	686	34	1421
Pipe-coupling	A. H. Rowand and R. S. Hunzeker	345,732	July 20	1341	348	36	254
Pipe-coupling	W. L. Warner	351,414	Oct. 26	1901	495	37	364
Pipe-coupling	L. West	349,549	Sept. 21	1389	360	36	1320
Pipe-coupling	H. Wiedling	347,855	Aug. 24	1954	519	36	851
Pipe-coupling	A. Wilbur	339,036	Mar. 30	2969	786	34	1486
Pipe-coupling	A. Wilbur	344,760	June 29	2801	725	35	1545
Pipe-coupling. Automatic	R. M. McKinney	352,552	Nov. 16	1148	310, 311	37	688
Pipe-coupling. Swivel	H. S. Miller	353,154	Nov. 23	1996	534	37	857
Pipe-covering. Non-conducting	R. Burns	348,187	Aug. 31	2445	657	36	946
Pipe-cutter	F. H. Conner	338,716	Mar. 30	2504	663	34	1403
Pipe-cutter	R. C. Ellrich	333,618	Jan. 5	138	43	34	32
Pipe-cutter	A. H. Esten	343,233	June 8	671	166	35	1137
Pipe-cutter	J. W. Mahlon	344,487	June 29	2440	627	35	1479
Pipe-fittings. Manufacture of	F. E. Youngs	354,879	Dec. 21	1785	470	37	1347
Pipe-hanger	J. T. Kelly	344,483	June 29	2434	626	35	1477
Pipe-hanger	H. A. Otto, A. Mertes, and J. A. Mitsch	341,765	May 11	1098	291	35	720
Pipe-joint	H. Green	334,526	Jan. 19	1464	393	34	285
Pipe-joint	E. Grueninger	348,556	Sept. 7	20	6	36	1052
Pipe-joint	W. H. Richards	337,867	Mar. 16	1322	343	34	1176
Pipe-joint and line	M. S. Verner	345,463	July 13	925	233	36	172
Pipe-joint. Metal-	W. A. Miles	347,947	Aug. 24	2094	557	36	876
Pipe-joints and producing the same. Cold-packed	A. N. Rankin	347,060	Aug. 10	801	213	36	621
Pipe-joints. Application of cement to	W. Rowbottom	344,407	June 29	2333	.....	35	1460
Pipe-joints. Cement for	C. W. Collins	352,449	Nov. 9	1023	275	37	657
Pipe-joints. Machine for making screw-threads for	F. F. Voigt	333,904	Jan. 5	555	150	34	103
Pipe-lifting machine	E. M. Watson	333,577	Jan. 5	110	30	34	23
Pipe. Machine for bending metal	C. M. Hunsicker	347,488	Aug. 17	1420	377	36	742
Pipe. Machine for bending metallic	W. B. Mack	343,962	June 15	1703	436	35	1332
Pipe. Machine for making lead	C. C. Tracy	340,465	Apr. 20	1954	502	35	363
Pipe machine. Spiral-	J. B. Root	346,500	Aug. 3	64	16, 17	36	472
Pipe machine. Spiral-	J. B. Root	346,612	Aug. 3	206	56	36	500
Pipe. Manufacture of	A. W. Lewis	351,987	Nov. 9	379	103	37	529
Pipe. Mechanism for screw-threading	C. W. Bowden and R. A. Beuchler	344,714	June 29	2736	711	35	1535
Pipe-molding apparatus	F. Shickle	349,461	Sept. 21	1270	329	36	1296
Pipe-nipple holder	R. C. Nugent	341,428	May 4	632	173	35	619
Pipe-ring	H. M. Shaw	338,445	Mar. 23	2122	555	34	1331
Pipe-stems, &c. Machine for bending	C. B. Hopkins	344,739	June 29	2775	719	35	1541
Pipe-testing machine	D. Giles	334,524	Jan. 19	1462	392	34	284
Pipe-wrench	I. Anderson	340,410	Apr. 20	1879	482	35	350
Pipe-wrench	S. J. Benson	345,567	July 13	1100	281	36	203
Pipe-wrench	C. Bonnichsen and M. R. Chrystal	336,468	Feb. 16	1984	520	34	806
Pipe-wrench	J. E. Davis	333,836	Jan. 5	468	126	34	87
Pipe-wrench	J. A. Fairbanks	340,436	Apr. 20	1906	490	35	355
Pipe-wrench	J. Fatkin	352,530	Nov. 16	1120	303	37	683
Pipe-wrench	D. P. Foster	339,634	Apr. 13	797	196	35	146
Pipe-wrench	G. E. Franklin	345,777	July 20	1412	366	36	267
Pipe-wrench	G. M. Gillett	338,731	Mar. 30	2529	668	34	1407
Pipe-wrench	J. T. Hayden	335,193	Feb. 2	151	39	34	468
Pipe-wrench	W. Hellem	334,227	Jan. 12	1044	277	34	202
Pipe-wrench	H. L. Housholder	334,337	Jan. 12	1262	341	34	241

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Pipe-wrench	P. Johnson	355,270	Dec. 28	2348	618	37	1467
Pipe-wrench	J. Leib	348,751	Sept. 7	292	78	36	1101
Pipe-wrench	J. Leib	354,197	Dec. 14	814	216	37	1162
Pipe-wrench	J. J. Looney	343,668	June 15	1307	328	35	1257
Pipe-wrench	T. D. McCarty and F. C. Sawhill	346,299	July 27	2132	549	36	408
Pipe-wrench	T. D. McCarty and F. C. Sawhill	354,718	Dec. 21	1560	414	37	1305
Pipe-wrench	I. Morse	344,978	July 6	256	64	36	46
Pipe-wrench	W. Moston	340,516	Apr. 20	2031	521	35	378
Pipe-wrench	H. Newton	341,815	May 11	1165	311	35	734
Pipe-wrench	R. R. Rouse	346,501	Aug. 3	66	17	36	473
Pipe-wrench	S. A. Rouse	344,406	June 29	2333	601	35	1460
Pipe-wrench	J. J. Tower	337,894	Mar. 16	1358	353	34	1183
Pipe-wrench	H. M. Wilson	338,326	Mar. 23	1952	513	34	1301
Pipe-wrench with cutter	H. Hubler	350,199	Oct. 5	140	41	37	30
Pipes and cigar-holders. Cleaner for	A. W. M. Moore	340,593	Apr. 27	2143	554	35	405
Pipes. Apparatus for controlling the supply of fluid through	A. Reese	341,170	May 4	278	80	35	556
Pipes. Apparatus for detecting leaks in soil	J. T. Phelan	339,206	Apr. 6	131	35	35	26
Pipes, boilers, &c. Covering for	H. M. Small	353,981	Dec. 7	482	131	37	1094
Pipes. Ceiling-collar for gas, steam, and other	E. K. Rollins	353,505	Nov. 30	2498	667	37	958
Pipes. Clamp for stopping leaks and bursts in	W. W. Knight	334,873	Jan. 26	1928	513	34	379
Pipes. Closing the ends of wrought-iron	M. L. Ritchie	339,812	Apr. 13	1035	257	35	189
Pipes. Connecting water apparatus with soil	T. Durrans	335,513	Feb. 2	587	153	34	545
Pipes. Coupling	J. Hemphill	351,263	Oct. 19	1648	433	37	315
Pipes, &c. Covering for	T. Merriam	347,631	Aug. 17	1642	435	36	785
Pipes. Covering for steam	P. J. Murphy	350,941	Oct. 19	1180	.....	37	229
Pipes. Device for closing openings in	C. J. Phillips	345,073	July 6	384	97	36	70
Pipes. Device for supporting	C. E. Knapp	351,640	Oct. 26	2238	579	37	428
Pipes. Elastic coupling for steam	E. Major	335,371	Feb. 2	401	103	34	513
Pipes. Expansion-joint for	S. T. Hughes	338,599	Mar. 23	2393	606	34	1365
Pipes. Forming curved metallic	W. J. Brady	337,475	Mar. 9	828	210	34	1081
Pipes. Frost-proof attachment for soil and other	T. C. Boyd	346,715	Aug. 3	335	91	36	526
Pipes. Frost-proof protector for ventilation and other	T. C. Boyd	346,714	Aug. 3	334	91	36	526
Pipes. Frost-proof ventilator for soil and other	T. C. Boyd	334,337	Jan. 12	1204	324	34	232
Pipes, &c. Hardening within and early removal from the molds of cement	J. Sharpe	343,281	June 8	739	184	35	1149
Pipes. Machine for making metal	J. B. Root	346,613	Aug. 3	208	56	36	500
Pipes. Machine for making spirally-formed	J. B. Root	353,431	Nov. 30	2389	637	37	937
Pipes. Machine for making spirally-jointed metal	J. B. Root	346,615	Aug. 3	210	57,58	36	501
Pipes, &c. Mold for making clay	C. A. Perry	354,216	Dec. 14	837	222	37	1146
Pipes of clay, &c. Machine for making sewer	E. T. Barden	347,457	Aug. 17	1377	366	36	734
Pipes. Seal-trap for waste	J. McConnell	353,577	Nov. 30	2600	694	37	977
Piping. Hanger for	P. N. Kenway	347,489	Aug. 17	1421	378	36	743
Pistol. Breech-loading magazine	C. J. Schoening	350,565	Oct. 12	655	179 / 180	37	126
Piston	A. Ball	351,565	Oct. 26	2117	548	37	407
Piston and attachment. Indicator	E. H. Gowing	340,665	Apr. 27	2244	590	35	421
Piston and valve. Metallic	J. Watts	353,522	Nov. 30	2523	673	37	963
Piston. Balance	J. P. Benoit	352,293	Nov. 9	828	222	37	618
Piston for steam-cylinders. Balanced	T. Joyce	342,966	June 1	270	70	35	1055
Piston-meter	J. S. Barden	336,032	Feb. 9	1328	351 / 352	34	685
Piston meter. Gas and steam	A. C. Christensen	340,763	Apr. 27	2383	628	35	445
Piston meters. Register-connection for	L. H. Nash	353,805	Dec. 7	213	57	37	1046
Piston. Steam-engine	J. Davis	346,584	Aug. 3	168	45	36	492
Pitcher. Sirup	H. E. Osborn and J. U. Fritchey	338,435	Mar. 23	2111	552	34	1328
Pitchfork and hand-rake combined	F. A. Olson	346,677	Aug. 3	326	78	36	517
Pitchfork and rake combined	J. J. Butler	337,740	Mar. 9	1151	299	34	1139
Pitchfork and rake. Combined	A. J. and E. B. Wilcox	339,830	Apr. 13	1060	263	35	194
Pitman	P. C. Close	337,380	Mar. 9	670	175	34	1056
Pitman	P. C. Close	337,557	Mar. 9	933	239	34	1100
Pitman	R. S. Mitchell	348,034	Aug. 24	2211	590	36	897
Pitman connection	A. M. Blain	339,733	Apr. 13	937	230	35	171
Pitman eye and connection	W. P. Drake	334,418	Jan. 19	1313	356	34	258
Pitman-head	W. H. Wild	353,240	Nov. 23	2109	565	37	879
Pitman-rod connection	J. F. Steward	342,716	May 25	2447	650	35	983
Pivot-cutting implement	A. A. Wolcott	349,470	Sept. 21	1283	333	36	1299
Plaiting apparatus	W. I. D. and L. Y. Woodruff	344,335	June 22	2225	573	35	1433
Plaiting attachment. Hand	E. M. Young	333,711	Jan. 5	301	83	34	56
Plaiting-machine	P. de Mello Souza, Jr.	343,912	June 15	1634	417 / 418	35	1319
Plaiting-machine	R. W. Henderson	336,999	Mar. 2	155	42	34	953
Plaiting-machine	G. and J. H. Taylor	334,060	Jan. 12	781	214 / 215	34	153
Plane	A. Doll	334,943	Jan. 26	2013	536	34	394
Plane	J. A. Traut	336,674	Feb. 23	2280	596	34	865
Plane	J. A. Traut	342,235	May 18	1724	458	35	845
Plane	J. Woods	334,324	Jan. 12	1185	318	34	228
Plane. Bench	F. M. Bailey	350,613	Oct. 12	725	197	37	140
Plane. Bench	J. P. Gage	339,872	Apr. 13	1117	278	35	205
Plane. Bench	S. D. Sargent	355,031	Dec. 28	2001	526	37	1399
Plane. Bench	J. A. Traut	338,570	Mar. 23	2292	598	34	1835
Plane. Blind-nailing	W. G. Strauahan	345,870	July 20	1538	397	36	288
Plane. Rabbet	W. H. Buswell	351,689	Oct. 26	2301	598	37	441
Plane. Router	J. L. De Huff	350,352	Oct. 5	334	96	37	68
Plane. Variable bench	A. Fales	348,198	Aug. 31	2459	660 / 661	36	949
Planes. Edge-guard for	J. H. Ferguson	336,222	Feb. 16	1640	428	34	744
Planes. Handle attachment for	R. T. Hendrickson	337,581	Mar. 9	959	246	34	1105
Planer. Buzz	F. H. Clement	354,773	Dec. 21	1644	435	37	1321
Planer. Core-box	C. H. S. Collins	345,278	July 13	668	169	36	127
Planer-knife gage	A. Potter	348,341	Aug. 31	2651	715	36	987

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Planer-table-cushioning device	F. Phillips	350,555	Oct. 12	637	175, 176	37	123
Planing and matching machine	W. H. Doane	335,994	Feb. 9	1275	338, 339	34	675
Planing and matching machine	W. M. Dwight. (Reissue)	10,736	June 15	1722	440	35	1336
Planing and matching machine	G. Johnson, Jr	338,973	Mar. 30	2863	756, 757, 758	34	1468
Planing and matching machine	C. F. Ritchel	344,867	July 6	104	26	36	19
Planing and matching machine	S. A. Woods	351,303	Oct. 19	1705	447, 448	37	324
Planing and matching machine. Duplex	W. H. Doane	350,190	Oct. 5	129	37, 38	37	27
Planing-machine	E. Belden	337,654	Mar. 9	1046	269	34	1121
Planing-machine	W. H. Doane	352,307	Nov. 9	847	228	37	622
Planing-machine	W. H. Gray	339,877	Apr. 13	1123	280	35	206
Planing-machine	L. P. Hoyt	352,976	Nov. 23	1727	463, 464	37	805
Planing machine. Convolute log	D. K. Allington	337,648	Mar. 9	1039	267	34	1120
Planing-machine-cushioning device	F. Phillips	350,554	Oct. 12	635	174, 175	37	123
Planing machine. Metal	G. W. Bean	351,895	Nov. 2	235	66	37	501
Planing machine. Metal	A. Clarke	346,090	July 27	1837	474, 475	36	352
Planing machine. Metal	J. K. Cullen	344,082	June 22	1882	483	35	1371
Planing machine. Metal	F. F. Dennis	335,744	Feb. 9	928	245	34	614
Planing machine. Metal	L. W. Pond	351,937	Nov. 2	306	85	37	514
Planing machine. Metal	S. W. Putnam	335,065	Feb. 9	1373	363	34	693
Planing-machine presser-bar	W. H. Gray	337,491	Mar. 9	847	215	34	1085
Planing machine. Wood	E. H. Hanson	345,503	July 13	984	249	36	182
Planing machine. Wood	G. S. Myrick	350,892	Oct. 12	1119	297	37	211
Planing-machines. Presser attachment for	G. W. Passel	347,234	Aug. 10	1073	287	36	671
Planing-machines. Presser-bar for	D. C. Krum	336,860	Feb. 23	2514	663	34	910
Planing-machines. Tool-holder-oscillating device for	G. E. Reinhardt	339,212	Apr. 6	138	37	35	27
Planing or other machine. Wood	G. F. Wetherill and R. B. Jones	341,975	May 18	1377	367	35	780
Plant and tree culture apparatus	W. J. Dennis	349,087	Sept. 14	757	193	36	1189
Plant and tree protector	D. H. Cole	342,582	May 25	2246	596	35	946
Plant-protector	O. W. Baily	333,810	Jan. 5	428	116	34	80
Plant-protector	M. A. Sutton	355,382	Dec. 28	2366	622	37	1471
Plant-protector	E. Zimmer	346,253	July 27	2074	533	36	398
Plant-stand. Swinging	E. Swartwout	342,476	May 25	2100	554	35	919
Plants. Implement for weeding and thinning	L. C. Hill	341,844	May 11	1205	323	35	741
Planter	P. P. Benson	351,020	Oct. 19	1329	349	37	256
Planter	F. F. Cherry	341,452	May 11	677	182	35	638
Planter	J. Dunkin	346,901	Aug. 10	579	155	36	580
Planter	C. B. Ferrell	354,405	Dec. 14	1098	295	37	1214
Planter	R. A. Fraser	353,445	Nov. 30	2406	643	37	941
Planter	T. V. Hardison and C. C. Bowman	341,747	May 11	1075	286	35	716
Planter	A. J. Jones	335,525	Feb. 2	606	158	34	548
Planter	W. Lewis	350,686	Oct. 12	836	225	37	159
Planter	D. F. Pulley	352,629	Nov. 16	1260	340	37	708
Planter	T. J. Savage	349,860	Sept. 28	1825	471	36	1411
Planter	W. S. Strother	349,823	Sept. 28	1779	460	36	1401
Planter	L. B. Walker	348,801	Sept. 7	352	96	36	1113
Planter	E. D. Whitehurst	346,793	Aug. 3	419	116	36	542
Planter and chopper. Cotton	L. P. Pitts	352,149	Nov. 9	629	166	37	582
Planter and cultivator	E. P. Noyes	336,014	Feb. 9	1304	346	34	680
Planter and cultivator. Combined corn	J. C. Weiss	353,835	Dec. 7	258	69	37	1053
Planter and distributer. Hand	H. E. Fries	337,390	Mar. 9	684	179	34	1058
Planter and drill attachment. Check-row corn	K. Jackman	351,448	Oct. 26	1945	506	37	372
Planter and fertilizer-distributer	J. S. Jenkins	349,799	Sept. 28	1741	449	36	1394
Planter and fertilizer-distributer. Check-row corn	J. J. Fraikin	337,759	Mar. 9	1172	305	34	1142
Planter and fertilizer-distributer. Combined	J. M. Huffman	346,548	Aug. 3	124	33	36	484
Planter and fertilizer-distributer. Combined seed	J. I. Boswell	336,285	Feb. 16	1737	454, 455	34	760
Planter and fertilizer-distributer. Combined seed	R. M. and J. M. Brooks	339 967	Apr. 13	1243	310	35	228
Planter and fertilizer-distributer. Cotton	J. Upshaw	349,325	Sept. 21	1061	272	36	1257
Planter and fertilizer-distributer. Cotton	J. W. Voltz	353,336	Nov. 30	2246	601	37	910
Planter and fertilizer distributer. Hand corn	H. Bivin	341,217	May 4	346	96	35	568
Planter and fertilizer-distributer. Seed	J. E. and T. C. Morgan	335,830	Feb. 9	1046	276, 277	34	635
Planter and fertilizer-distributer. Seed	W. B. Simpson	353,979	Dec. 7	480	130, 131	37	1094
Planter and manure-distributer	D. C. Bullard	345,210	July 6	562	144	36	102
Planter and seeder	J. M. Johnston	347,614	Aug. 17	1593	422, 423	36	776
Planter attachment. Corn	A. G. Langlot	345,387	July 13	812	205	36	152
Planter attachment. Corn	J. B. Pedrick	333 541	Jan. 5	61	17	34	14
Planter check-row attachment. Corn	M. V. Jordan and C. O. Cole	335 075	Jan. 26	2202	585	34	427
Planter check-row attachment. Corn	J. Thomson	333,699	Jan. 5	277	75	34	53
Planter check-row attachment. Corn	J. K. Voorhees	351,725	Oct. 26	2348	611	37	449
Planter. Check-row corn	W. B. Chambers	334,416	Jan. 19	1310	355	34	257
Planter. Check-row corn	S. F. Enos	349,636	Sept. 21	1496	387, 388	36	1343
Planter. Check-row corn	J. Frazure	344,572	June 29	2557	661	35	1501
Planter. Check-row corn	J. Kaylor	340,511	Apr. 20	2021	518, 519	35	375
Planter. Check-row corn	J. Klar	351,985	Nov. 2	372	101, 102	37	527
Planter. Check-row corn	G. McCormick and R. T. McClain	347,362	Aug. 17	1237	329, 330	36	709
Planter. Check-row corn	H. Morrison	349,259	Sept. 14	989	252	36	1234
Planter. Check-row corn	H. M. Reesor	352,202	Nov. 9	709	190	37	596

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Planter. Check-row corn	E. H. Reynolds	334,470	Jan. 19	1391	375	34	272
Planter. Check-row corn	J. F. Scott and O. W. Chesnut	354,354	Dec. 14	1039	278	37	1304
Planter. Check-row corn	R. Smith	344,550	June 29	2535	655	35	1495
Planter. Check-row corn	J. K. Voorhees	348,250	Aug. 31	2535	681	36	963
Planter check-rower. Corn	G. W. Jewell and R. M. Dickson	335,361	Feb. 2	386	100	34	511
Planter check-rower. Corn	J. Kaylor	344,116	June 22	1931	494	35	1379
Planter check-rower. Corn	F. Litterer and L. McKinniss	348,470	Aug. 31	2837	763	36	1022
Planter. Check-rower corn	C. E. Sweney	340,066	Apr. 13	1380	347	35	252
Planter. Combined corn and cotton	J. W. Atkinson and C. E. White	350,964	Oct. 19	1217	322, 323	37	236
Planter. Combined corn and cotton	J. G. Davis	352,303	Nov. 9	838	226	37	620
Planter. Combined corn and cotton	W. E. Kennedy	350,887	Oct. 12	1112	296	37	210
Planter. Combined corn and cotton	W. Walker	353,473	Nov. 30	2450	654	37	949
Planter. Combined cotton-seed and corn	G. C. Avery	341,123	May 4	268	63	35	544
Planter. Corn	G. S. Agee	339,124	Apr. 6	1	1	35	3
Planter. Corn	J. M. Allison and C. P. Bowden	345,757	July 20	1380	359	36	261
Planter. Corn	S. Beal	346,186	July 27	1972	508, 509	36	378
Planter. Corn	L. B. Berrien	335,205	Feb. 2	167	43, 44	34	471
Planter. Corn	J. A. Cherry	334,746	Jan. 26	1774	472	34	350
Planter. Corn	O. J. Colton	349,836	Sept. 28	1795	464	36	1405
Planter. Corn	J. W. Dear	337,485	Mar. 9	841	213	34	1084
Planter. Corn	M. E. Doolittle	337,313	Mar. 2	583	153, 154	34	1033
Planter. Corn	M. E. Doolittle	340,992	May 4	30	8	35	511
Planter. Corn	S. E. Hake	338,403	Mar. 23	2066	542	34	1320
Planter. Corn	J. W. Harbin	337,261	Mar. 2	505	132	34	1019
Planter. Corn	G. D. Haworth	351,177	Oct. 19	1542	404	37	295
Planter. Corn	G. R. Hayes	342,601	May 25	2279	603, 604	35	952
Planter. Corn	G. Icken	346,550	Aug. 3	126	34	36	484
Planter. Corn	M. V. Jordan and C. O. Cole	341,752	May 11	1083	288	35	718
Planter. Corn	R. W. Jordan	349,162	Sept. 14	861	221	36	1209
Planter. Corn	A. W. and D. Kenney	341,248	May 4	387	107	35	576
Planter. Corn	B. Kenoyer	340,670	Apr. 27	2250	592	35	421
Planter. Corn	E. H. Korsmeyer	351,925	Nov. 2	295	79	37	510
Planter. Corn	E. H. Lancaster	352,923	Nov. 23	1653	444	37	792
Planter. Corn	G. Laning	350,752	Oct. 12	915	246	37	174
Planter. Corn	J. Locher	352,418	Nov. 9	982	264, 265	37	649
Planter. Corn	H. H. McCord	343,250	June 8	695	172	35	1141
Planter. Corn	J. and W. R. McMullin	337,850	Mar. 16	1301	338	34	1172
Planter. Corn	J. S. Mulholen	347,499	Aug. 17	1432	380	36	745
Planter. Corn	J. Nelson	339,203	Apr. 6	126	34	35	25
Planter. Corn	J. B. Pedrick	335,954	Feb. 9	1223	325	34	667
Planter. Corn	E. R. Procter	333,547	Jan. 5	67	19	34	15
Planter. Corn	C. H. Richardson	347,889	Aug. 24	2008	532	36	859
Planter. Corn	W. L. Rucker	336,750	Feb. 23	2372	621	34	883
Planter. Corn	A. Runstetler	347,643	Aug. 17	1658	439, 440	36	787
Planter. Corn	F. H. Rybacek	349,455	Sept. 21	1261	327	36	1295
Planter. Corn	J. C. Schleicher	354,939	Dec. 28	1880	495	37	1377
Planter. Corn	H. Schoenfeld	351,405	Oct. 26	1886	491, 492	37	361
Planter. Corn	F. W. Shellabarger	343,611	June 15	1232	309, 310	35	1244
Planter. Corn	A. L. Shipman	344,685	June 29	2701	701, 702	35	1528
Planter. Corn	M. A. Spafford	348,536	Aug. 31	2935	769	36	1040
Planter. Corn	J. W. Spangler	350,163	Oct. 5	89	26, 27	37	19
Planter. Corn	N. O. Starks	354,025	Dec. 7	545	148	37	1105
Planter. Corn	S. L. Stiles	344,214	June 22	2064	528, 529	35	1403
Planter. Corn	C. E. Sweney	339,233	Apr. 6	166	43, 44	35	32
Planter. Corn	C. E. Townley	335,255	Feb. 2	239	63	34	483
Planter. Corn	E. Tyden	353,834	Dec. 7	255	68, 69	37	1053
Planter. Corn	L. E. Waterman	336,772	Feb. 23	2400	629, 630, 631	34	889
Planter. Corn	J. P. Webb	334,318	Jan. 12	1174	314	34	226
Planter. Corn and cotton	J. J. Armstrong and A. S. Lowrey	355,115	Dec. 28	2123	558	37	1423
Planter. Corn and cotton	J. T. McNorton	345,389	July 13	814	205	36	152
Planter. Corn and cotton	J. W. Williams	352,995	Nov. 16	1209	328	37	699
Planter. Corn and pea	L. F. Edwards	355,009	Dec. 28	1970	518	37	1393
Planter. Corn and seed	C. C. Henderson	352,186	Nov. 9	689	184	37	592
Planter. Corn and seed	L. C. Stahnaker	337,795	Mar. 9	1217	317	34	1150
Planter. Corn and seed	C. E. White and J. Morphy	343,286	June 8	744	185, 186	35	1150
Planter. Cotton	E. W. Duke	350,233	Oct. 5	189	54	37	39
Planter. Cotton	T. P. Lowry	350,311	Oct. 5	280	80	37	57
Planter. Cotton	J. K. P. Shelton	351,843	Nov. 2	161	44, 45	37	489
Planter. Cotton and corn	R. M. Tyus	353,648	Nov. 30	2725	727	37	998
Planter. Cotton, corn, and pea	R. M. Reaney	341,505	May 11	739	199	35	650
Planter. Cotton-seed	H. D. Spangler	354,944	Dec. 28	1885	497	37	1348
Planter. Force-feed seed	J. H. Keedy	337,268	Mar. 2	515	135	34	1021
Planter. Hand corn	C. B. Arnold. (Reissue)	10,785	Nov. 30	2731	728	37	1000
Planter. Hand corn	W. A. Esterly and E. W. Poe	348,387	Aug. 31	2718	730	36	1000
Planter. Hand corn	S. Hackett	334,583	Jan. 19	1543	413	34	299
Planter. Light-draft corn	J. Wyatt	346,252	July 27	2073	533	36	398
Planter. Lister corn	M. M. Holmes	337,156	Mar. 2	362	95	34	993
Planter. Pea	J. T. Martin	355,273	Dec. 28	2232	619	37	1468
Planter. Peanut	J. R. Ayers	346,976	Aug. 10	679	180	36	599
Planter. Potato	L. A. Aspinwall	342,491	May 25	2123	561, 562	35	923

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Planter. Potato	W. E. Canedy	343,984	June 22	1733	446	35	1344
Planter. Potato	S. E. Hake	336,312	Feb. 16	1773	464	34	767
Planter. Potato	J. D. Lord and J. M. Cheevers	347,275	Aug. 10	1102	295	36	676
Planter. Potato	C. C. Maves	344,535	June 29	2514	648, 649	35	1491
Planter. Potato	C. C. Maves	354,428	Dec. 14	1124	301, 302	37	1219
Planter. Seed	P. and F. W. Boxendale	344,414	Jan. 19	1308	354	34	257
Planter. Seed	P. Dickinson	339,978	Apr. 13	1256	313, 314	35	230
Planter. Seed	H. A. Drebert	343,571	June 15	1184	297, 298	35	1235
Planter. Seed	L. S. Flatau	334,223	Jan. 12	1038	276	34	201
Planter. Seed	L. S. Flatau	352,813	Nov. 16	1503	405	37	754
Planter. Seed	J. T. Gantt	345,426	July 13	878	219	36	163
Planter. Seed	W. A. Holland	353,359	Nov. 30	2280	600	37	917
Planter. Seed	G. F. Johnson	353,949	Dec. 7	432	118	37	1085
Planter. Seed	W. E. Kennedy	343,819	June 15	1518	382	35	1296
Planter. Seed	E. H. Korsmeyer	351,926	Nov. 2	286	79, 80	37	510
Planter. Seed	G. Lovick	335,370	Feb. 2	400	103	34	513
Planter. Seed	W. E. Moffatt	343,330	June 8	625	207	35	1163
Planter. Seed	J. W. Ratliff	335,959	Feb. 9	1229	327	34	668
Planter. Seed	J. A. Roden and N. C. Morgan	334,897	Jan. 26	1954	520	34	383
Planter. Seed	M. Shank and F. G. Green	349,527	Sept. 21	1359	353	36	1315
Planter. Seed	J. H. Shaw	349,460	Sept. 21	1269	329	36	1296
Planter. Seed	R. J. Wentz	344,887	July 6	135	33	36	24
Planter. Seed	I. A. Wesson	345,198	July 6	548	140	36	100
Planter. Seed or corn	E. R. Proctor	347,825	Aug. 24	1916	509	36	543
Planter. Sugar-cane	E. and B. Holmes	335,129	Feb. 2	43	12	34	448
Planter. Sulky corn	W. Newhall	353,959	Dec. 7	447	122	37	1088
Planter. Tree	J. J. Kempe and F. J. Heinold	353,070	Nov. 23	1871	505	37	831
Planter wheel. Corn	G. S. Briggs	333,593	Jan. 5	131	36	34	27
Planters. Check-rower for corn	G. D. Haworth	351,176	Oct. 19	1541	403	37	295
Planters. Check-rower for corn	C. S. Howard	350,591	Oct. 12	695	188	37	133
Planters. Check-rower for corn	D. Reed	345,176	July 6	518	133	36	94
Planters. Check-rowing attachment for corn	E. F. Crawford	338,339	Mar. 23	1971	518	34	1304
Planters. Cut-off for	D. M. Parry	347,637	Aug. 17	1649	437	36	786
Planters. Hill-marking attachment for corn	C. C. Shupe	337,998	Mar. 16	1517	393	34	1211
Planters. Marker for corn and seed	D. C. Gilliland	353,215	Nov. 23	2080	556	37	873
Planting machine. Corn	G. F. and W. N. Kuhns and P. S. Bollinger	345,640	July 13	1204	312, 313	36	222
Planting machine. Potato	J. P. Van Vleck	349,242	Sept. 14	968	247	36	1229
Plaster-can	J. W. Elliott	340,564	Apr. 27	2105	542	35	398
Plaster or cement	J. Thomlinson	334 489	Jan. 19	1419	.....	34	277
Plastering, filling, wall-ornaments, &c. Composition for	W. Horstmann	345,847	July 20	1509	.....	36	283
Plastering-strip	G. Ahrens	347,080	Aug. 10	841	223	36	628
Plastering-strip	G. Ahrens	349,331	Sept. 21	1068	274	36	1258
Plastering-surface. Metallic	J. Stanley. (Reissue)	10,781	Nov. 2	559	148	37	562
Plastic and netting lining or finish for partitions, &c. Combined	E. C. Morris	344,671	June 29	2685	697	35	1526
Plastic and wire-netting lining or finishing for partitions. Compound	E. C. Morris	344,670	June 29	2683	696	35	1526
Plastic article	J. G. Low and H. E. Streeter	335,528	Feb. 2	610	159	34	549
Plastic compound	H. W. Merritt	341,157	May 4	256	.....	35	551
Plastic material. Pressing and molding articles of	E. Kipper	335,926	Feb. 2	607	158	34	548
Plastic material with gold, &c. Lining plates of	H. Barnes	348,183	Aug. 31	2442	655	36	946
Plate. Pie	M. J. Grosz	348,839	Sept. 7	400	108	36	1122
Plate-lifter	C. A. Crawford	339,973	Apr. 13	1250	312	35	229
Plates having strata of different metal. Manufacture of	J. Pedder	350,152	Oct. 5	77	22	37	17
Plates. Making	D. B. Oliver	348,990	Sept. 14	615	162	36	1166
Plates. Manufacture of compound	R. P. Manly and F. H. Taylor	355,274	Dec. 28	2353	619	37	1468
Plateau	J. R. Donnelly	340,430	Apr. 20	1899	488	35	354
Platform: *See* Band-cutter's platform. Car-platform. Coach-platform. Coffin-platform. Harvester-platform. Stove-platform. Truck-platform.							
Platform or scaffold	A. Murphy and C. Weinman	347,055	Aug. 10	794	211	36	619
Pliers	W. Cronk	344,769	June 29	2812	738	35	1547
Pliers	T. G. Hall	335,694	Feb. 9	850	224	34	599
Pliers	C. F. Hill	336,715	Feb. 23	2326	609	34	875
Pliers	F. H. Richards	343,547	June 8	1135	287	35	1220
Pliers. Cutting	E. B. Crocker	345,215	July 6	571	146	36	103
Pliers. Cutting	R. C. Ellrich	341,136	May 4	230	68	35	547
Plotter for drafting	M. E. Thompson	335,853	Feb. 9	1082	286	34	642
Plow	C. Anderson	348,652	Sept. 7	163	45	36	1077
Plow	J. A. Ball	352,849	Nov. 16	1548	418	37	763
Plow	L. D. Ball and J. T. Bender	343,561	June 15	1163	293	35	1233
Plow	W. J. Ball	354,086	Dec. 14	630	172	37	1130
Plow	J. W. Barnett	345,099	July 6	417	107	36	76
Plow	P. P. Benson	351,420	Oct. 26	1907	496	37	365
Plow	J. A. Bilz	351,154	Oct. 19	1507	394	37	268
Plow	T. W. Boyle	345,027	July 6	330	83	36	60
Plow	J. B. Brown	342,896	June 1	170	43	35	1036
Plow	J. M. Burrows	334,106	Jan. 12	851	234	34	165
Plow	B. Butler	350,864	Oct. 12	1084	290	37	205
Plow	J. W. Carr	345,113	July 6	436	112	36	89
Plow	W. L. Casaday	345,276	July 13	665	168	36	126
Plow	W. H. Clarke, Jr	333,601	Jan. 5	138	38	34	28
Plow	Z. O. Clebert	338,932	Mar. 30	2811	741	34	1459
Plow	W. Denel	353,668	Dec. 7	20	6	37	1011
Plow	W. Dillen	348,193	Aug. 31	2454	659	36	948

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Plow	A. T. Dilley	343,950	June 15	1684	432	35	1328
Plow	O. A. Essig	352,913	Nov. 23	1640	441	37	790
Plow	J. L. Felder	338,054	Mar. 16	1585	412	34	1223
Plow	W. A. Fretwell	353,852	Dec. 7	282	75	37	1058
Plow	A. J. Gale	347,102	Aug. 10	869	230	36	632
Plow	L. Gibbs	335,348	Feb. 2	368	96	34	507
Plow	H. M. Godfrey	335,917	Feb. 9	1181	314	34	659
Plow	M. J. Hatcher	344,656	June 29	2667	692	35	1523
Plow	E. Houtz and A. Brown	349,220	Sept. 14	933	239	36	1223
Plow	J. Howard and H. W. Gibbs	351,864	Nov. 2	196	55	37	495
Plow	L. C. Jaques	339,658	Apr. 13	829	203	35	153
Plow	J. A. Johnson	346,288	July 27	2117	544	36	406
Plow	T. E. Jones	338,844	Mar. 30	2666	708	34	1437
Plow	J. T. Ketchum	339,788	Apr. 13	1008	249	35	184
Plow	J. Lenhart	349,506	Sept. 21	1333	345	36	1309
Plow	P. H. Lequire	353,455	Nov. 30	2425	647	37	945
Plow	A. M. McGregor	340,140	Apr. 20	1487	376	35	277
Plow	A. C. McNeal	345,161	July 6	501	128	36	91
Plow	C. P. McWane	354,647	Dec. 21	1465	389	37	1286
Plow	G. M. Needles and E. G. Fisher	336,734	Feb. 23	2352	616	34	880
Plow	J. F. Packer	353,495	Nov. 30	2480	662	37	954
Plow	J. Pentreath	354,215	Dec. 14	836	222	37	1166
Plow	J. Peterson	335,620	Feb. 9	748	199	34	581
Plow	J. H. Putman	335,537	Feb. 2	621	163	34	551
Plow	G. M. Ramsey	341,504	May 11	739	199	35	650
Plow	G. B. Reuss	340,360	Apr. 20	1821	467	35	339
Plow	F. Reyner	336,946	Mar. 2	86	23	34	942
Plow	A. Rolow	345,992	July 20	1708	440	36	319
Plow	A. Rolow. (Reissue)	10,775	Oct. 26	2355	613	37	450
Plow	F. Rothmunt	349,750	Sept. 28	1675	432	36	1381
Plow	C. H. Sawyer	342,390	May 25	1980	523	35	897
Plow	J. T. Senteney	352,936	Nov. 23	1674	449	37	796
Plow	W. Shaver	340,372	Apr. 20	1834	471	35	341
Plow	J. A. Smith	346,780	Aug. 3	405	112	36	539
Plow	J. E. W. and C. W. Smith	353,828	Dec. 7	247	66	37	1051
Plow	G. B. St. John	339,593	Apr. 6	731	179	35	128
Plow	A. R. Tomlinson	339,080	Mar. 30	3029	800	34	1495
Plow	C. E. Tower	354,752	Dec. 21	1618	428	37	1315
Plow	M. R. Vinson	342,483	May 25	2109	557	35	921
Plow	A. Westling	338,897	Mar. 30	2767	729	34	1450
Plow	L. B. White	339,508	Apr. 6	565	136, 137	35	104
Plow	G. Wiard	346,879	Aug. 3	542	147	36	566
Plow	A. Wilhelm	338,325	Mar. 23	1952	513	34	1301
Plow	J. M. Woodley	349,916	Sept. 28	1891	489	36	1424
Plow	G. W. Wright	339,610	Apr. 6	752	186	35	132
Plow	J. P. Zeller	346,081	July 20	1825	471	36	341
Plow and cultivator. Combined	G. W. Anderson	354,082	Dec. 14	626	171	37	1129
Plow and double-shovel frame. Turn-	W. T. Claycomb	334,847	Jan. 26	1893	505	34	373
Plow and harrow. Combined	A. McDonald	335,082	Jan. 26	2213	588	34	429
Plow and planting mechanism. Combined	W. S. Greening	348,204	Aug. 31	2471	663, 664	36	951
Plow and stalk-cutter. Rotary	E. Royce	344,596	June 29	2590	671	35	1507
Plow attachment	S. A. Stienbarger	350,085	Sept. 28	2130	551	36	1469
Plow attachment	W. S. Thurlow	349,264	Sept. 14	996	254	36	1235
Plow attachment	C. C. Trinkle, M. Petitt, and E. E. Coats.	344,795	June 29	2851	738	35	1556
Plow attachment	M. L. Unger	344,424	June 29	2357	607	35	1464
Plow attachment	S. B. Williams. (Reissue)	10,719	May 4	650	176	35	624
Plow. Balance-	D. Greig and T. Benstead	353,356	Nov. 30	2276	607, 608	37	916
Plow. Combination-	W. Y. Oliver	338,289	Mar. 23	1897	499	34	1291
Plow. Combination-	W. H. Stanley	351,133	Oct. 19	1479	387	37	283
Plow. Combination-	A. A. Weinmann	347,144	Aug. 10	928	247, 248	36	644
Plow. Combined sulky and gang	W. C. and D. R. Schenck	341,509	May 11	744	200, 201	35	651
Plow, cultivator, and harrow. Combined	C. Audirsch	335,008	Jan. 26	2102	560	34	410
Plow cutting-share	E. A. Koch	335,936	Feb. 9	1203	320	34	663
Plow drag attachment	G. Welty	344,296	June 22	2179	559	35	1424
Plow-fender	R. H. Avery	334,408	Jan. 19	1302	352, 353	34	256
Plow-gage	A. B. Reeves	340,242	Apr. 20	1643	416	35	306
Plow. Gang-	L. Gibbs	335,913	Feb. 9	1175	312	34	658
Plow. Gang-	P. Hansen	344,830	July 6	38	10	36	9
Plow. Gang-	W. Kimmel	341,250	May 4	389	107	35	577
Plow. Gang-	E. E. Krause	347,721	Aug. 17	1762	470	36	806
Plow. Gang-	F. F. Landis	352,196	Nov. 9	702	187, 188	37	595
Plow. Gang-	E. H. Nicholson	346,766	Aug. 3	389	107	36	536
Plow. Gang-	A. Shaffer	353,469	Nov. 30	2445	652, 653	37	948
Plow. Gang-	J. J. Young	337,107	Mar. 2	298	79	34	981
Plow. Garden-	G. L. Roby	354,739	Dec. 21	1599	424	37	1312
Plow. Garden-	G. H. Vaughn	338,119	Mar. 16	1677	435	34	1242
Plow-handle. Adjustable	S. R. Montcalm	354,609	Dec. 21	1413	374	37	1276
Plow harrow attachment	G. W. Spencer	336,023	Feb. 9	1316	349	34	682
Plow. Hilling-	L. P. Thompson	348,069	Aug. 24	2270	608	36	908
Plow-irons. Machine for setting and adjusting	E. J. Sawyer	352,156	Nov. 9	640	169	37	584
Plow-jointer	G. B. Casaday	338,481	Mar. 23	2166	566, 567	34	1339
Plow-jointer	A. G. Christman	345,770	July 20	1402	363	36	265
Plow. Lister-	E. P. Lynch	347,880	Aug. 24	1994	528	36	857

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Plow. Mold-board	G. A. Kelly	346,480	Aug. 3	41	10, 11	36	468
Plow. Mold-board	J. W. Peters	349,404	Sept. 21	1191	308	36	1292
Plow or cultivator	A. Beard	347,220	Aug. 10	1029	274	36	662
Plow or cultivator. Rotary	E. Royce	344,791	June 29	2845	737	35	1555
Plow. Planting	J. P. Black. (Reissue)	10,745	July 13	1243	322	36	239
Plow. Planting	T. Pates	338,186	Mar. 16	1765	460	34	1260
Plow-point	P. D. Anderson	334,837	Jan. 26	1882	501	34	370
Plow-point	J. A. Tigner	347,074	Aug. 10	833	222	36	626
Plow-points. Fastener for	G. T. Brown	353,119	Nov. 23	1938	519	37	845
Plow-points. Machine for grinding	J. B. Huber	339,421	Apr. 6	443	108	35	82
Plow. Reversible	S. J. Benson and A. D. Hollis	353,347	Nov. 30	2259	604	37	913
Plow. Reversible	N. McLean	345,797	July 20	1437	372	36	271
Plow. Ridge	J. B. Moorman	352,929	Nov. 23	1662	447	37	794
Plow. Rotary	H. Myers	352,655	Nov. 16	1295	350	37	715
Plow. Rotary	J. Q. A. Newsom	352,956	Nov. 23	1699	456, 457	37	800
Plow. Shovel	J. W. Webster	348,436	Aug. 31	2785	748	36	1013
Plow sod-cutting attachment	J. J. Goetzenberger and O. S. Wangsnes.	333,849	Jan. 5	483	131	34	90
Plow. Steam	W. Lay	348,401	Aug. 31	2737	734, 735	36	1003
Plow. Steam	G. Willard	336,969	Mar. 2	113	31	34	946
Plow-stock	W. F. Barnett and F. L. Adams	346,978	Aug. 10	681	181	36	599
Plow-stock and cultivator combined	J. A. Lifsey	337,069	Mar. 2	246	65, 66	34	971
Plow. Sulky	C. Anderson	348,487	Aug. 31	2859	769, 770	36	1026
Plow. Sulky	C. Anderson	348,945	Sept. 14	556	147, 148	36	1155
Plow. Sulky	S. W. Barr	341,718	May 11	1040	275, 276	35	709
Plow. Sulky	P. C. Brown and T. P. Bragg	350,036	Sept. 28	2055	531	36	1454
Plow. Sulky	W. E. Budd	346,801	Aug. 3	437	117	36	543
Plow. Sulky	A. F. Cass	334,348	Jan. 12	1231	329	34	234
Plow. Sulky	E. A. DeWitt	347,472	Aug. 17	1398	372	36	738
Plow. Sulky	E. Falk	338,834	Mar. 30	2675	704	34	1434
Plow. Sulky	G. H. Fowler	334,424	Jan. 19	1326	359	34	259
Plow. Sulky	S. W. Gutridge	334,117	Jan. 12	867	238	34	168
Plow. Sulky	E. D. Meagher	345,713	July 20	1312	339	36	249
Plow. Sulky	F. T. Miller	345,068	July 6	378	95	36	69
Plow. Sulky	J. Moseley	348,231	Aug. 31	2511	675	36	958
Plow. Sulky	W. S. Pates	352,999	Nov. 23	1761	473	37	811
Plow. Sulky	S. Rockafellow	342,845	June 1	98	25	35	1024
Plow. Sulky	G. Ross	342,637	May 25	2333	616	35	962
Plow. Sulky	C. Russ	343,071	June 1	418	106	35	1082
Plow. Sulky	C. R. Thomas	335,400	Feb. 2	438	113	34	519
Plow. Sulky	C. E. Tower	354,449	Dec. 14	1155	309	37	1224
Plow. Sulky	J. S. Trimble	352,281	Nov. 9	810	217	37	614
Plow. Sulky	M. H. Weber	344,070	June 22	1864	479	35	1367
Plow. Sulky gang	J. W. Holland	352,920	Nov. 23	1649	443	37	792
Plow. Swivel	F. C. Merrill	353,696	Dec. 7	58	15, 16	37	1017
Plow. Wheel	M. P. Farnham	338,395	Mar. 23	2057	539	34	1319
Plow. Wheel	I. R. Gilbert	353,628	Nov. 30	2682	718, 719	37	992
Plow. Wheel	J. F. Packer	353,497	Nov. 30	2484	663, 664	37	955
Plow. Wheel	C. S. Ruef	353,234	Nov. 23	2100	562, 563	37	877
Plow. Wheel	C. A. Shaler	351,218	Oct. 19	1591	418	37	304
Plow. Wheel	J. Wheeler	335,492	Feb. 2	561	147	34	541
Plow. Wheel	J. M. Young	339,037	Mar. 30	2971	766	34	1466
Plows. Adjustable shovel-block for	J. R. Williams	343,058	May 18	1490	398	35	890
Plows and listers. Cutter for stirring	W. N. Phipps	343,196	June 8	613	152	35	1127
Plows. Cutting attachment for	J. Owens	345,916	July 20	1604	413	36	301
Plows. Guide-runner for	W. S. Pates	353,232	Nov. 23	2098	562	37	877
Plows. Harrow attachment for	N. W. Rew	347,380	Aug. 17	1260	335	36	714
Plows. Landside-cutter for	J. B. Reed	349,406	Sept. 21	1194	309	36	1293
Plows. Plant-shield for	J. H. Witt	348,941	Sept. 7	548	144	36	1147
Plows. Seed-planting and fertilizer-distributing attachment for hand-	H. F. Miley	350,835	Oct. 12	1043	279	37	198
Plows to running-gear. Sulky-plow device for attaching	C. N. Severance	342,469	May 25	2091	553	35	918
Plowing-machine. Steam	L. Wakefield	339,236	Apr. 6	174	45, 46	35	33
Plowing, pulverizing, and cultivating machine. Steam	J. Q. A. Newson	349,807	Sept. 28	1754	452, 453	36	1396
Plug-cutter	D. W. Fonts	341,646	May 11	938	249	35	699
Plug. Turning	F. W. Polle	334,722	Jan. 19	1738	463	34	323
Plug. Vent	M. Schuetz	355,033	Dec. 28	2902	527	37	1329
Plumb, level, and rule combined	J. R. Morrison	342,303	May 18	1838	486	35	861
Plumb, level, and square. Combined	C. Gates	339,287	Apr. 6	249	62	35	46
Plumber's fitting	J. Noble	334,542	Jan. 19	1489	399	34	289
Plumber's fitting	J. Noble	334,543	Jan. 19	1490	399	34	289
Plumber's furnace	J. Clegg	340,765	Apr. 27	2385	629	35	446
Plumbers' lead traps. Device for making	F. N. Du Bois	344,090	June 22	1893	485	35	1373
Plumber's trap	F. C. Gerstenberg	340,777	Apr. 27	2398	632	35	448
Plumbers' traps. Apparatus for making	J. A. Whitney	335,407	Feb. 2	447	116	34	521
Pneumatic dispatch. Automatic switch for	A. Bryson, Jr., and H. S. Mudge	353,400	Nov. 30	2345	626	37	929
Pneumatic indicator	G. W. Baird	343,530	June 8	1107	279	35	1215
Pneumatic transmission. Carrier for	S. Bergmann	340,477	Apr. 20	1969	506	35	366
Pneumatic tube	J. L. Knight	339,105	Mar. 30	3068	812	34	1562
Pocket-battery	G. Otto	338,770	Mar. 30	2589	682	34	1418
Pocket-book	W. B. Putnam and H. C. Hoffman	334,609	Jan. 19	1580	421	34	306
Pocket-book fastening	H. Lehmann	351,327	Oct. 19	1735	456	37	329
Pocket-book lock	G. Hood	338,412	Mar. 23	2075	544	34	1322

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Pocket-book, purse, and hand-bag frames. Fastening for	L. B. Prahar	339,577	Apr. 6	711	174	35	124
Pocket-knife	N. W. Crandall and G. W. Jopson	338,251	Mar. 23	1852	486	34	1284
Pocket-knife	A. Friebertshauser	345,296	July 13	694	175	36	131
Pocket-knife	G. W. Miller	351,787	Nov. 2	83	23	37	474
Pocket-knife	J. M. Parker	342,128	May 18	1593	425	35	821
Pocket-knife	J. Pusey	338,612	Mar. 23	2338	612	34	1368
Pocket. Safety	H. Phelps	341,375	May 4	423	115	35	583
Poison. Machine for sprinkling fluid	J. W. Clarke	345,413	July 13	857	.....	36	159
Poisons. Receptacle for	T. Mayhew	348,227	Aug. 31	2505	673, 674	36	957
Poke	A. Egneu	337,386	Mar. 9	679	173	34	1058
Poke. Animal	F. E. Benson	354,676	Dec. 21	1509	400	37	1294
Poke. Animal	A. W. Bishop	352,175	Nov. 9	678	181	37	590
Poke. Animal	J. T. McKoy, Jr	354,608	Dec. 21	1412	374	37	1276
Poke. Animal	C. E. Phifer	345,600	July 13	1142	292	36	211
Poke. Animal	T. D. Reaves	345,859	July 20	1524	394	36	285
Poke. Animal	D. R. Saunders and J. E. Welling	340,367	Apr. 20	1829	469	35	341
Pole and shafts. Combined	I. T. Wood	349,292	Sept. 14	1023	261	36	1241
Pole and shafts for vehicles. Combined	A. J. Martin	336,334	Feb. 16	1801	471	34	773
Pole and shafts. Vehicle	A. W. Tourgee and L. D. Jennings	333,979	Jan. 5	661	181	34	124
Pole. Carriage	F. J. Springer	337,453	Mar. 9	799	203	34	1077
Pole-coupling for vehicles. Adjustable	J. N. Brown	346,144	July 27	1918	495	36	367
Pole for vehicles. Draft	W. L. Walker	336,180	Feb. 16	1569	413	34	732
Pole or shaft supporter	G. F. Kopp	346,290	July 27	2119	545	36	406
Pole-tip	M. H. Mott	352,978	Nov. 23	1732	464	37	806
Pole-tip	S. R. Scottron	349,525	Sept. 21	1357	353	36	1315
Pole tip. Carriage	G. L. K. Morrow	338,608	Mar. 23	2334	611	34	1368
Pole tip. Carriage	N. E. Springsteen	341,698	May 11	1020	269	35	705
Poles, &c. Flag and other	W. R. Pitt	351,463	Oct. 26	1972	513	37	378
Polishing and grinding wheel	T. F. Lemassena	341,925	May 18	1314	351	35	769
Polishing-machine	J. H. Cutler	335,568	Feb. 9	674	177	34	568
Polishing-machine	E. S. Hollister	344,835	July 6	44	11	36	9
Polishing machine. Pinion-leaf	E. A. Marsh	349,944	Sept. 28	1932	499, 500	36	1432
Polishing-machines. Roll for	F. W. Coy	352,227	Nov. 9	741	198	37	602
Polishing material. Feeder for	H. W. Smith	334,296	Jan. 12	1149	307, 308	34	221
Polishing materials. Holder for	E. H. Hartshorn	340,783	Apr. 27	2405	634	35	450
Polishing-tool	W. E. Badger	342,493	May 25	2126	562	35	924
Polishing-wheel	W. Baker	343,621	June 15	1248	314	35	1247
Polycycle	A. Coudyser	345,414	July 13	858	214	36	159
Pool-ball rack	C. B. Brainard	342,676	May 25	2383	630	35	971
Pool-balls. Receptacle for	J. M. Dragoo	351,752	Nov. 2	33	9	37	465
Pool-rack and ball-spotter. Combined	G. Henkel	338 735	Mar. 30	2536	670	34	1408
Pool-rack and game-counter	E. X. Ferron	335 689	Feb. 9	842	223	34	598
Pork. Curing	E. J. J. Loos	352 094	Nov. 2	530	.....	37	558
Porous mass for blotting purposes and for making cigar-pipes, &c.	O. Brach	347,565	Aug. 17	1527	.....	36	762
Portable boat	C. W. King	343,244	June 8	685	170	35	1140
Portable furnace	E. Densmore	347,328	Aug. 17	1189	318	36	701
Portable furnace	S. L. Wiegand	334,400	Jan. 12	1324	346	34	245
Portable heater	C. T. Schoen	342,640	May 25	2437	617	35	963
Portable or traction engine	T. A. Long	354,605	Dec. 21	1405	372	37	1275
Portable tank	V. M. Backus	344,932	July 6	189	48	36	35
Portfolio	E. C. Allen	351,558	Oct. 26	2106	546	37	404
Portfolio	C. Scherer	352,358	Nov. 9	911	244	37	634
Portfolio and binder. Combined	E. B. Robinson	337,704	Mar. 9	1107	285	34	1131
Portière ring and pin	F. M. House	352,992	Nov. 23	1751	470	37	810
Post: *See* Fence-post. Hitching-post. Fire-proof post. Wire-fence post Gate-post.							
Post and pile driver	A. Towberman	347,211	Aug. 10	1014	270	36	660
Post-driver	A. S. Reisor	347,128	Aug. 10	899	240	36	638
Post-hole borer	F. E. Wren	341,982	May 18	1366	370	35	781
Post-hole digger	W. and E. W. Gibbs	334,653	Jan. 19	1643	439	34	318
Post-hole digger	L. Y. Myers	341,160	May 4	260	75	35	552
Post-hole digger	L. Y. Myers	342,835	June 1	85	21	35	1022
Post-hole digger	J. C. Staley	350,167	Oct. 5	98	28	37	21
Post-holder	W. B. Thomas	349,240	Sept. 14	966	246	36	1229
Posts. Base for	W. H. Kelogg	337,163	Mar. 2	374	97	34	995
Post-office box	J. McLane	342,217	May 18	1699	453	35	841
Post-office boxes. Indicator for	G. W. Knight	342,021	May 18	1441	386	35	701
Postal-card. Reply	W. Homan	339,890	Apr. 13	1142	284	35	211
Postal clerks. Practice-case for	L. Rogers	334,473	Jan. 19	1395	376	34	273
Postal packet	H. A. Robinson	333,890	Jan. 5	533	145	34	100
Pot: *See* Coffee-pot. Lead-corroding pot Coffee and tea pot. Stove fire-pot. Dash-pot. Tea and coffee pot. Fire-pot. Tea or coffee pot. Flower-pot.							
Pot and kettle scraper	N. W. Merwin	342,118	May 18	1581	422	35	818
Pot-cover	W. C. Nye	342,706	May 25	2433	646	35	980
Pot-lifter	L. T. Karras	340,126	Apr. 20	1466	370	35	274
Pot-lifter	J. B. Kibler	334,666	Jan. 19	1661	444	34	321
Pots, &c. Cover for	W. C. Nye	342,379	May 25	1965	518	35	895
Potash. Manufacture of bichromate of	W. Simon	342,646	May 25	2343	.....	35	964
Potato cleaning and sorting machine	G. F. A. Gramke	340,572	Apr. 27	2112	544	35	399
Potato coverer and cultivator	N. Keeler	337,501	Mar. 9	861	217	34	1067
Potato-cutter	W. E. Canedy	343,983	June 22	1732	445	35	1344
Potato-digger	C. Babcock	338,133	Mar. 16	1692	440, 441	34	1245

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Potato-digger	M. I. Conderman	341,454	May 11	680	182 / 183	35	638
Potato-digger	W. J. Davis	345,032	July 6	335	84	36	61
Potato-digger	W. T. Garrett	350,733	Oct. 12	893	239	37	170
Potato-digger	W. L. Henry	344,106	June 22	1914	490	35	1376
Potato-digger	E. Hoy	346,918	Aug. 10	604	161	36	585
Potato-digger	C. W. Kattell	346,819	Aug. 3	447	123 / 124	36	547
Potato-digger	N. Keeler	341,919	May 18	1307	350	35	768
Potato-digger	J. H. Lewis	337,169	Mar. 2	385	100	34	997
Potato-digger	J. C. Mattice	349,166	Sept. 14	865	222	36	1210
Potato-digger	J. W. Roberts	346,686	Aug. 3	294	81	36	518
Potato-digger	R. T. Roberts	336,667	Feb. 23	2270	592 / 593	34	863
Potato-digger	W. D. Robinson	342,227	May 18	1712	456	35	843
Potato-digger	S. E. Smith	339,704	Apr. 13	897	221	35	164
Potato-digger	N. C. and L. C. Taber	338,207	Mar. 16	1789	467	34	1264
Potato-digger	W. H. Tuttle	349,961	Sept. 28	1957	506	36	1436
Potato-digger	H. B. Utter	343,553	June 8	1144	288 / 289	35	1221
Potato-digger	H. B. Utter	343,554	June 8	1145	289	35	1222
Potato-digger	J. Van Siclen	345,936	July 20	1627	419 / 420	36	305
Potato-digger	F. O. Williams	352,966	Nov. 23	1714	460	37	802
Potato-digger	F. O. Williams and J. C. Mattice	338,812	Mar. 30	2640	696	34	1428
Potato digger and coverer	C. F. Plumb	343,063	June 1	408	104	35	1080
Potato digger and separator. Combined	I. W. Hoover	348,214	Aug. 31	2484	668	36	954
Potato-digger. Plow	J. McFarland	339,914	Apr. 13	1172	291	35	216
Potato-digging machine	W. H. McCall	334,456	Jan. 19	1367	370	34	266
Potato-meal. Making	C. Maull	345,159	July 6	500	.....	36	91
Potato-sprinkler	W. H. Moore	336,938	Mar. 2	73	20	34	940
Potter's wheel	B. F. Sheldon	337,632	Mar. 9	1020	262	34	1117
Poultry drinking-fountain	L. Smith	351,888	Nov. 2	226	63	37	500
Powder-can	H. H. Hull	343,126	June 1	508	128	35	1098
Powder-case	E. A. Kittell	348,525	Aug. 31	2019	785	36	1037
Powder-puff	W. H. Hudswell	342,206	May 18	1683	449	35	837
Powder-shaping machines. Cutter-oscillating mechanism for	W. H. Tolhurst	341,113	May 4	193	60	35	540
Power: *See* Horse-power.							
Power and speed regulator	C. Rowland	335,541	Feb. 2	625	164	34	552
Power. Automatic apparatus for accumulating and utilizing	J. Houlehan	347,710	Aug. 17	1748	466	36	803
Power-brake	R. Solano	353,175	Nov. 23	2020	541 / 542	37	862
Power-brake	R. Solano	353,892	Dec. 7	349	93	37	1071
Power-converter	J. S. Shirk	336,265	Feb. 16	1704	444	34	754
Power. Device for transmitting	T. H. Connelly	354,692	Dec. 21	1530	406	37	1299
Power. Device for transmitting	W. G. Gass	336,404	Feb. 16	1898	497	34	791
Power. Device for transmitting	C. A. Launius	348,022	Aug. 24	2195	585	36	894
Power. Device for transmitting	G. H. Potter	355,206	Dec. 28	2255	595	37	1449
Power. Device for transmitting	G. Welk	339,356	Apr. 6	347	84	35	65
Power-presses. Adjustable frame for	A. H. Merriman	354,164	Dec. 14	757	203	37	1151
Power-presses. Automatic feed mechanism for	W. Leist	354,480	Dec. 14	1200	321	37	1232
Power-presses. Stop for	J. A. Seitz	352,575	Nov. 16	1180	319	37	694
Power-stand	J. S. Hetherington	335,128	Feb. 2	42	12	34	448
Power. Transmitting	R. Spear	333,789	Jan. 5	401	108	34	76
Precious metals from ores. Apparatus for the treatment of and extraction of	D. W. Birmingham	342,421	May 25	2027	535	35	906
Precious metals from speiss. Separating	S. T. Bryan	336,792	Feb. 23	2428	.....	34	894
Preservation of food substances	A. R. Rooson	350,018	Sept. 28	2037	.....	36	1451
Preserving and waterproofing composition	R. E. Nichols	349,172	Sept. 14	873	.....	36	1211
Preserving apparatus. Vacuum	B. H. Thwaite	344,223	June 22	2078	532	35	1406
Preserving by gas. Apparatus for	L. McMurray	334,966	Jan. 26	2044	546	34	400
Preserving fish	O. Syllwasschy	352,666	Nov. 16	1314	.....	37	718
Preserving food. Composition for	W. Radam	349,900	Sept. 28	1874	.....	36	1421
Preserving fruit	W. M. Davis	354,174	Dec. 14	796	211	37	1158
Preserving fruit	J. P. Torrance	340,389	Apr. 20	1855	476	35	345
Preserving fruits. Apparatus for	L. McMurray	334,567	Jan. 26	2046	546	34	400
Preserving fruits. Apparatus for	W. A. Wicks	342,412	May 25	2013	531	35	903
Preserving fruits, vegetables, &c	W. A. Wicks	342,413	May 25	2015	531	35	904
Preserving green food. Method of and apparatus for	W. N. Blakeman, Jr.	350,287	Oct. 5	253	73	37	53
Press: *See* Baling-press. Cider-press. Cigar-press. Copying-press. Cotton-press. Cotton and hay press. Crupper-press. Domestic hand-press. Drill-press. Filter-press. Foot-press. Forging-press. Gluing-press. Gunpowder-press. Harness-pad press. Hay-press. Hay and cotton press. Hop-press. Household-press. Hydraulic press. Lead-press. Molding-press. Oil-press. Printing-press. Seal-press. Screw-press. Silo-press. Soap-press. Tobacco-press.							
Press	B. A. Beardsley	336,545	Feb. 23	2085	548	34	831
Press	J. H. Holmgreen	335,816	Feb. 9	1032	273	34	633
Press	H. Pattison	338,867	Mar. 30	2714	714	34	1442
Press	J. Stewart	334,485	Jan. 19	1413	380 / 381	34	276
Press-board and sleeve-pressing frame. Combined	E. J. Whitman	347,853	Aug. 24	1952	518	36	851

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Press for cutting and drawing sheet metal	O. Smith	341,353	May 4	532	147, 148	35	601
Presser-foot-lifting mechanism	J. A. Davis	353,254	Nov. 23	2127	571	37	883
Presser-foot-lifting mechanism	C. F. Harlow and E. E. Angell	350,304	Oct. 5	271	78	37	55
Presser-roll	R. C. Killam	335,593	Feb. 9	713	190	34	575
Pressing and dampening machine	D. Walters	350,786	Oct. 12	966	259	37	183
Pressing plastic material. Machine for	C. S. Long	354,604	Dec. 21	1402	371, 372	37	1275
Pressure engine and pump. Fluid	P. W. Willans	339,242	Apr. 6	182	47, 48	35	35
Pressure engine. Fluid	W. A. G. Schönheyder	340,369	Apr. 20	1831	469, 470	35	341
Pressure-gage	E. B. Kunkle	339,559	Apr. 6	660	160	35	119
Pressure-gage. Recording	F. A. Jones	340,581	Apr. 27	2129	549, 550	35	402
Pressure-gage. Recording	F. A. Jones	343,177	June 8	592	147	35	1123
Pressure-gage. Recording	F. A. Jones	344,448	June 29	2384	614	35	1469
Pressure-gage. Recording	F. A. Jones	345,061	July 6	371	93, 94	36	68
Pressure-gage. Recording	F. A. Jones	318,219	Aug. 31	2496	671, 672	36	956
Pressure-gages. Circuit-closing attachment for	M. W. Grovesteen	339,094	Mar. 30	3048	805	34	1499
Pressure indicator and recorder	A. Shedlock	336,668	Feb. 23	2272	593, 594	34	864
Pressure-regulator	J. Acton	335,734	Feb. 9	916	241	34	612
Pressure-regulator	J. S. De Palos	346,403	July 27	2280	585	36	436
Pressure-regulator	L. B. Fulton	340,107	Apr. 20	1439	364	35	268
Pressure-regulator	G. W. Lawton	347,118	Aug. 10	888	235	36	636
Pressure-regulator	G. F. Ott	336,584	Feb. 23	2140	561	34	841
Pressure-regulator	W. S. Patterson	353,081	Nov. 23	1882	508	37	834
Pressure-regulator and cut-off	O. J. McGann	354,719	Dec. 21	1561	414	37	1305
Pressure-regulator and cut-off	G. Westinghouse, Jr.	341,295	May 4	465	126	35	589
Pressure-regulator and cut-off	G. Westinghouse, Jr., and F. Moore	352,382	Nov. 9	940	252	37	641
Pressure-regulator. Automatic	J. G. Beale and J. A. Armstrong	337,918	Mar. 16	1390	361	34	1189
Pressure-regulator. Automatic	C. B. Bosworth	333,818	Jan. 5	439	119	34	82
Pressure regulator. Automatic steam	L. G. Woolley	342,161	May 18	1632	436	35	828
Pressure regulator. Fluid	W. J. Acheson	334,326	Jan. 12	1188	319	34	229
Pressure regulator. Fluid	G. Metzger	334,714	Jan. 19	1727	460	34	333
Pressure regulator. Fluid	O. Pintsch	337,431	Mar. 9	770	196	34	1072
Pressure regulator. Fluid	S. Strunz	336,874	Feb. 23	2542	669	34	915
Pressure regulator. Fluid	L. W. Truesdell	337,461	Mar. 9	812	205	34	1078
Pressure-regulators. Diaphragm for	N. C. Locke	335,033	Jan. 26	2143	570	34	416
Pricking-machine	F. M. Leavitt and A. O. Kittredge	343,180	June 8	595	148	35	1124
Primer. Obturating	O. E. Michaelis	333,655	Jan. 5	206	56	34	40
Printed sheets. Mechanism for folding and delivering	W. Scott	351,470	Oct. 26	1984	516	37	389
Printer's case-stand and galley-tray	N. C. Hawks	342,795	June 1	29	8	35	1011
Printer's form-clamp	G. H. Randall	338,777	Mar. 30	2598	685	34	1418
Printers' forms. Furniture for	C. W. and E. H. Brown	340,548	Apr. 27	2078	536	35	394
Printers' forms. Lock-up for	W. Lloyd	352,248	Nov. 9	766	204	37	606
Printer's furniture	F. H. Dodd	344,035	June 22	1810	465	35	1357
Printer's galley	F. P. Butman	352,854	Nov. 16	1554	419	37	764
Printer's galley	W. H. H. Doty	346,809	Aug. 3	437	119	36	545
Printer's galley	G. E. Jones	344,741	June 29	2779	719	35	1542
Printer's galley	D. W. Whitaker	335,494	Feb. 2	563	148	34	542
Printer's galley	D. W. Whitaker	337,218	Mar. 2	445	116	34	1008
Printer's lead and rule cutter	P. S. Kellogg	343,640	June 15	1269	320	35	1251
Printers' leads. Machine for shaving	H. F. Wellman	348,804	Sept. 7	356	96, 97	36	1114
Printer's quoin	R. Atwater	340,475	Apr. 20	1967	506	35	366
Printer's quoin	A. L. Davis	354,398	Dec. 14	1088	292	37	1212
Printer's quoin	D. J. Ferry	348,119	Aug. 24	2332	626	36	920
Printer's quoin	F. C. Graves	335,282	Feb. 2	278	73	34	490
Printer's quoin	T. S. Metcalf	337,851	Mar. 16	1302	338	34	1173
Printer's quoin	W. R. Whitmore	334,500	Jan. 19	1431	385	34	279
Printers' use. Combined machine for	C. D. Fish	351,830	Nov. 2	136	38, 39	37	484
Printing	M. A. Bancroft	351,618	Oct. 26	2203	569, 570	37	421
Printing	M. A. Bancroft	351,686	Oct. 26	2299	596, 597	37	440
Printing	M. A. Bancroft	355,118	Dec. 28	2128	559	37	1424
Printing and adding machine. Check	W. Koch and C. Kruse	348,496	Aug. 31	2873	773	36	1029
Printing and cutting stepped indexes. Machine for	A. S. Coghill and J. A. C. Ruthven	351,249	Oct. 19	1631	428	37	311
Printing and folding machine. Combined	J. L. Firm	341,740	May 11	1067	283, 284	35	714
Printing and folding machines. Sheet-conveyer device between	J. H. Stonemetz	343,677	June 15	1321	330	35	1260
Printing and registering tickets. Machine for	J. P. Dunn	345,623	July 13	1169	300, 301, 302	36	217
Printing-block	J. R. and G. W. Cummings	351,313	Oct. 19	1720	452	37	327
Printing-case stands. Attachment for	W. V. Tufford	344,927	July 6	184	47	35	34
Printing, dating, and registering tickets. Machine for	J. P. Dunn	345,624	July 13	1175	302, 303	36	218
Printing device. Bill-head	J. H. Smith and E. W. Blackhall	339,339	Apr. 6	322	81	35	61
Printing lumber. Machine for	L. Roth	353,762	Dec. 7	151	42, 43	37	1035
Printing-machine	A. Campbell	345,669	July 20	1255	325, 326	36	239
Printing-machine	J. T. Hoyt	351,265	Oct. 19	1651	434	37	315
Printing-machine	B. Huber	350,056	Sept. 28	2089	541	36	1461
Printing-machine	J. L. Poalk	339,687	Apr. 13	874	214, 215	35	160
Printing-machine	G. W. Prouty	339,210	Apr. 6	135	36	35	26
Printing-machine	J. P. Richarz and S. Scott	339,014	Mar. 30	2940	778	34	1481
Printing-machine	G. F. Taylor	336,673	Feb. 23	2278	595	34	865
Printing machine. Chromatic	J. T. Hawkins	338,666	Mar. 23	2418	637, 638	34	1382
Printing machine. Cloth	H. E. Green	349,037	Sept. 14	686	176	36	1177

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Printing-machine. Cylinder	C. B. Cottrell	338,392	Mar. 23	2053	538	34	1318
Printing-machine. Cylinder	J. T. Hawkins	3-3,027	June 1	349	91	35	1070
Printing-machine. Cylinder	J. M. Jones	344,111	June 22	1921	492	35	1378
Printing-machine. Cylinder	J. C. Rairigh	347,513	Aug. 17	1452	385, 386	36	748
Printing-machine delivery apparatus	L. C. Crowell	339,530	Apr. 6	598	145, 146	35	110
Printing-machine. Hand-roller	J. H. Eiermann	353,670	Dec. 7	22	7	37	1011
Printing-machine ink-fountain	H. H. Thorp	345,654	July 13	1235	319, 320	36	228
Printing-machine inking apparatus	B. Huber	344,107	June 22	1916	490	35	1377
Printing-machine inking apparatus	H. Lee	353,792	Dec. 7	193	53	37	1042
Printing-machine inking apparatus	R. Miehle	347,364	Aug. 17	1239	330, 331	36	709
Printing-machine inking device	H. F. Bechman	345,760	July 20	1388	360, 361	36	263
Printing machine. Oil-cloth	G. W. Williams	349,417	Sept. 21	1205	312, 313	36	1284
Printing-machine. Oscillating-cylinder	J. T. Hawkins	346,911	Aug. 10	595	159, 160	36	583
Printing machine. Plate	C. J. Addy	341,305	May 4	476	129	35	591
Printing machine. Plate	O. S. Harmon	334,225	Jan. 12	1040	277	34	201
Printing-machine. Platen	O. M. Howard	355,171	Dec. 28	2204	582	37	1438
Printing-machine. Reciprocating-platen	A. Godfrey	344,265	June 22	2131	544, 545, 546, 547	35	1416
Printing-machine registering mechanism	F. L. and S. G. Goss	353,556	Nov. 30	2577	689	37	973
Printing-machine. Rotary	W. R. Landfear	346,592	Aug. 3	176	47, 48	36	494
Printing machine. Rotary chromatic	C. W. Cronk and C. C. Currier	343,299	June 8	769	192	35	1155
Printing-machine sheet-delivery	J. T. Hawkins	335,698	Feb. 9	858	227	34	600
Printing-machine sheet-delivery	J. T. Hawkins	346,910	Aug. 10	593	158, 159	36	583
Printing-machine sheet-delivery apparatus	J. Brooks	349,781	Sept. 28	1720	444	36	1389
Printing-machine sheet-delivery apparatus	G. P. Fenner	335,066	Jan. 26	2189	581, 582	34	425
Printing-machine sheet-delivery apparatus	G. P. Fenner	344,731	June 29	2762	715	35	1538
Printing-machine sheet-delivery apparatus	G. P. Fenner	352,402	Nov. 9	964	258, 259	37	646
Printing-machine sheet-delivery apparatus	J. T. Hawkins	336,108	Feb. 16	1454	383	34	714
Printing-machine sheet-delivery apparatus	J. T. Hawkins	336,109	Feb. 16	1455	383	34	714
Printing-machine sheet-delivery apparatus	C. B. Maxson	333,879	Jan. 5	522	142	34	97
Printing-machine sheet-delivery apparatus	C. B. Maxson	334,964	Jan. 26	2042	545	34	399
Printing-machine sheet-delivery apparatus	C. B. Maxson	351,991	Nov. 2	387	105	37	530
Printing-machine sheet-delivery apparatus	R. Miehle	352,653	Nov. 16	1291	348, 349	37	714
Printing-machine sheet-delivery apparatus	C. Potter, Jr	333,668	Jan. 5	222	61	34	43
Printing-machine sheet-delivery apparatus	C. Potter, Jr	344,497	June 29	2455	631	35	1481
Printing-machine sheet-delivery apparatus	C. Potter, Jr	354,872	Dec. 21	1777	468, 469	37	1346
Printing-machine sheet-delivery apparatus	W. Scott	351,471	Oct. 26	1986	516	37	381
Printing-machine sheet-delivery apparatus	J. Walther	348,075	Aug. 24	2275	609	36	909
Printing-machine sheet-gage	W. Scott	335,634	Feb. 9	768	204	34	585
Printing-machine. Stop-cylinder	C. B. Cottrell	338,390	Mar. 23	2047	537	34	1317
Printing-machine. Stop-cylinder	C. B. Cottrell	347,922	Aug. 24	2056	545, 546	36	868
Printing-machine. Stop-cylinder	C. Potter, Jr	344,496	June 29	2453	630, 631	35	1480
Printing-machine. Stop-cylinder	S. D. Tucker	344,507	June 29	2474	635, 636	35	1484
Printing-machine stop-motion	J. Naylor, Jr	335,768	Feb. 9	964	255, 256	34	619
Printing-machine. Web-perfecting cylinder	D. T. Simpson	345,079	July 6	390	98, 99	36	71
Printing-machine. Web-perfecting platen	W. N. Kelly	353,312	Nov. 30	2214	593	37	905
Printing-machine with addressing attachment	C. H. Blanchett	353,787	Dec. 7	184	51	37	1041
Printing machine. Yarn	E. J. Stephens	338,314	Mar. 23	1935	509	34	1298
Printing-machines. Chase-securing device for	C. A. Davis	351,166	Oct. 19	1520	398	37	292
Printing-machines. Cushioning apparatus for	R. Miehle	337,853	Mar. 16	1304	338, 339	34	1173
Printing-machines. Evener or sheet-straightener for the receiving-tables of	W. W. Moseman	345,644	July 13	1215	314	36	225
Printing-machines. Gripper mechanism for	B. Huber	347,487	Aug. 17	1419	377	36	742
Printing-machines. Gripper-motion for cylinder	J. T. Hawkins	350,197	Oct. 5	137	40	37	29
Printing-machines. Inking apparatus for	W. H. Hughes	348,163	Aug. 24	2396	643	36	932
Printing-machines. Inking apparatus for	W. Scott	338,366	Mar. 23	2011	529	34	1311
Printing-machines. Inking apparatus for cylinder	F. A. Hetherington	335,196	Feb. 2	156	40	34	409
Printing-machines. Paper-feeding device and cutter for	D. L. Wortendyke	348,506	Aug. 31	2889	777	36	1032
Printing machines. Rotary cutter for web	F. L. and S. G. Goss	353,555	Nov. 30	2576	688	37	973
Printing-machines. Sheet-piling attachment for	C. E. Holbrook	348,123	Aug. 24	2335	627	36	921
Printing-machines. Sheet-straightener for sheet-delivery apparatus of	C. B. Cottrell	338,391	Mar. 23	2052	538	34	1318
Printing-machines. Tension device for	W. J. Shea	347,966	Aug. 24	2127	566, 567	36	881
Printing-machines. Throw-off mechanism for oscillating	F. Van Wyck	348,302	Aug. 31	2605	701	36	978
Printing-machines. Under guide for	W. K. Hodgman	340,785	Apr. 27	2407	634	35	450
Printing-machines. Web-controlling device for	J. L. Cox	347,690	Aug. 17	1718	458, 459	36	798
Printing. Nature	T. Honywood	339,057	Mar. 30	2995	.....	34	1491
Printing oil-cloths, &c. Machine for	F. O. Gotchell	352,123	Nov. 9	582	155, 156	37	575
Printing on pyroxyline compounds	M. C. Lefferts and J. W. Hyatt	348,222	Aug. 31	2498	.....	36	956
Printing on resawed lumber	G. D. Eddy	338,046	Mar. 16	1575	410	34	1222
Printing-plate	S. H. Horgan	341,332	May 4	510	140	35	597

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Printing-plate holder	M. J. Hughes	350,677	Oct. 12	820	222	37	156
Printing-plates. Producing	C. F. Josz	334,234	Jan. 12	1052	.....	34	204
Printing-press	M. Gally	352,237	Nov. 9	752	201	37	604
Printing-press	W. A. Kelsey	346,021	Aug. 24	2194	584	36	894
Printing-press feed-guide	J. T. Hawkins	343,454	June 8	1015	252, 253	35	1198
Printing-press gage-pin	E. L. Megill	345,066	July 6	376	95	36	69
Printing-press. Platen	W. H. Price, Jr	342,037	May 18	1460	390	35	795
Printing-presses. Air-cushion for	R. Miehle	345,527	July 13	1035	263	36	191
Printing-presses, &c. Alarm-counter for	J. Ruesch	354,024	Dec. 7	544	147, 148	37	1105
Printing-presses. Delivering apparatus for web	M. P. Meyer	354,338	Dec. 14	1018	270, 271	37	1199
Printing-presses. Gage attachment for	F. F. Byington	351,309	Oct. 19	1714	450	37	326
Printing-presses. Throw-off mechanism for	H. F. Beckman	346,635	Aug. 3	236	65	36	506
Printing-roller. Hand	W. W. McMains	346,489	Aug. 3	51	13	36	469
Printing-rollers. Making matrices for	E. P. Benjamin	350,654	Oct. 12	790	215	37	150
Printing-rolls. Making gelatine	E. P. Benjamin	350,653	Oct. 12	789	214	37	150
Printing samples on textile fabrics. Machine for	W. Mather	339,448	Apr. 6	480	117	35	89
Printing-surface	A. Ten Winkel	337,725	Mar. 9	1133	292	34	1135
Printing surfaces. Damping lithographic	J. W. Osborne	338,769	Mar. 30	2585	681, 682	34	1417
Printing tickets. Apparatus for	J. P. Dunn	334,697	Jan. 19	1701	454	34	328
Printing upon matches. Machinery for	J. H. Mitchell	339,917	Apr. 18	1175	282	35	216
Printing upon or decorating the surface of celluloid	M. C. Lefferts	346,376	July 27	2238	.....	36	428
Printing vignettes. Process of and apparatus for	E. S. Butler	354,534	Dec. 21	1289	343	37	1255
Printing-wheel	W. R. Bacon	353,527	Nov. 30	2529	674	37	964
Prison	J. Erb	344,644	June 29	2653	687	35	1520
Prison-cells. Construction of	P. W. Herzog	348,210	Aug. 31	2479	666, 667	36	953
Prison, vault, and safe alarm	J. W. Ruenzi	342,709	May 25	2438	647	35	981
Privies, commodes, &c. Effecting upward draft in	P. Bardon	351,731	Nov. 2	3	1	37	459
Privy	E. R. Angell	337,546	Mar. 9	918	235	34	1098
Privy	J. J. Lovejoy and L. Kraft	349,399	Sept. 21	1184	306	36	1280
Privy and attachments	P. Anthony	334,151	Jan. 12	914	250	34	178
Privy-seat	G. and J. Turnbull	334,491	Jan. 19	1420	382	34	277
Privy-vault and water-closet	L. Cormuelle	341,458	May 11	686	184	35	639
Privy-vaults and apparatus for use therewith. Construction of	T. W. Carrico	335,177	Feb. 2	131	33	34	464
Privy-vaults. Apparatus for emptying	L. R. Sassinot	338,878	Mar. 30	2735	720	34	1445
Profile-pattern of the human face. Making a reversed	H. Searle	339,334	Apr. 6	318	80	35	60
Projectile	T. G. Bennett	354,376	Dec. 14	1063	284	37	1208
Projectile	R. B. Douglas	336,556	Feb. 23	2102	553	34	834
Projectile	L. Geiger	343,269	June 8	719	179	35	1146
Projectile. Compound	W. Lorenz	338,849	Mar. 30	2691	709	34	1438
Projectile for throwing life-lines	S. Ingersoll	348,848	Sept. 7	409	111	36	1123
Projectile. Ordnance	B. T. Babbitt	346,343	July 27	2193	562	36	419
Projectiles. Accelerating	J. W. Graydon	353,125	Nov. 9	591	157	37	576
Projectiles. Manufacture of compound	W. Lorenz	335,464	Feb. 2	523	.....	34	535
Projectiles. Sabot for high-explosive	D. Moore	338,762	Mar. 30	2576	679	34	1416
Propeller	C. Bernhard	351,152	Oct. 19	1504	394	37	288
Propeller	W. T. Sylvén	351,135	Oct. 19	1481	388	37	284
Propeller for vessels	W. L. Bowyer	342,572	May 25	2233	593	35	944
Propeller for vessels	J. Forgie	341,137	May 4	231	63	35	547
Propeller. Reciprocating	A. B. Smith	341,955	May 18	1351	361	35	776
Propeller. Screw-	E. Bennett	345,761	July 20	1391	361	36	263
Propeller. Screw-	B. Dickinson	344,898	July 6	146	37	36	27
Propeller. Screw-	C. Hoehle	342,011	May 18	1421	379	35	787
Propeller. Screw-	C. F. Wetherill	350,278	Oct. 5	243	71	37	51
Propeller. Screw-	N. Yagn	333,805	Jan. 5	421	114, 115	34	79
Propeller. Ship's	H. C. Bender	334,632	Jan. 19	1614	420	34	312
Propeller. Steering-	J. Clark	337,479	Mar. 9	834	211	34	1082
Propeller-wheel	J. W. L. Simmons	335,640	Feb. 9	777	205	34	587
Propelling and steering vessels	W. H. Burns	338,462	Mar. 16	1739	451	34	1252
Propelling and steering vessels	J. J. Kunstädter	345,702	July 20	1299	336	36	247
Propelling attachment for boats	F. Zschiegner	336,684	Feb. 23	2293	599, 600	34	868
Propelling boats. Device for	J. H. Bowers	336,787	Feb. 23	2423	637	34	893
Propelling canal-boats	A. Schaunsten	348,296	Aug. 31	2593	693	36	975
Propelling vessels. Tube-motor for	W. H. Daniels	338,040	Mar. 16	1568	407	34	1220
Propelling-wheel	M. S. Cole	352,299	Nov. 9	834	224, 225	37	619
Proportional meter	G. Westinghouse, Jr.	347,673	Aug. 17	1697	452, 453	36	794
Proportions. Apparatus for computing	E. W. Farnham	335,906	Feb. 9	1167	310	34	656
Propulsion of ships	F. Girein	334,580	Jan. 19	1539	412	34	299
Propulsion of vessels and rendering invisible the smoke discharged therefrom.	T. Nordenfelt	344,054	June 22	1838	471	35	1362
Protector: *See* Abdominal protector. Book-cover protector. Boot or shoe protector. Face-protector. Game-protector. Heel-protector. Heel and sole protector. Hose-protector. Lamp-protector. Lip-protector. Pantaloons-protector. Plant-protector. Sheep-protector. Sleeve and glove protector. Telegraph and telephone protector. Tree-protector. Vest-seam protector. Wall-protector. Wash-board protector. Water-closet-seat protector							
Protector and stiffener	I. H. Westgate	345,199	July 6	550	141	36	100
Protractor	G. Almorth	346,836	Aug. 3	477	132	36	554

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Protractor	O. Tyrbjerg	346,519	Aug. 3	91	24	36	478
Pruning implement	R. Bartly	347,552	Aug. 17	1509	401	36	759
Pruning implement	W. H. Brown	336,694	Feb. 23	2306	603	34	871
Pruning implement	G. C. Casterlin and F. D. Mosher	336,383	Feb. 16	1865	489	34	786
Pruning-knife	J. F. Vandyke and J. P. Barns	336,270	Feb. 16	1712	446	34	756
Pruning-shears	P. C. Matherson	340,230	Apr. 20	1627	412	35	303
Pruning-shears	J. Neff, Jr	352,561	Nov. 16	1163	313	37	690
Pug-mill	W. W. Wallace	338,121	Mar. 16	1679	436	34	1242
Pug-mills. Rack-collar for the tempering-wheels of	G. S. Adams, J. Roach, and E. A. Sherwood.	351,086	Oct. 19	1417	372	37	271
Pull-handle	O. Bernz	344,617	June 29	2617	678	35	1513
Puller: *See* Cork-puller. Stump or stone puller. Stump-puller.							
Pulley	H. T. Farnsworth	343,018	June 1	329	84	35	1067
Pulley	B. G. Handy	352,539	Nov. 15	1130	305	37	685
Pulley	M. McAleenan	342,804	June 1	41	11	35	1014
Pulley	W. F. Parish	352,837	Nov. 15	1533	413	37	759
Pulley	E. C. Sooy	336,958	Mar. [illegible]	100	28	34	944
Pulley	C. S. Wardwell	334,998	Jan. 26	2085	557	34	407
Pulley. Awning-	W. H. Bakewell	346,084	July 2[illegible]	1832	473	36	351
Pulley. Band-saw	W. H. Dodge	348,269	Aug. 31	2560	688	36	968
Pulley-bearing	H. W. Hill	337,953	Mar. 16	1449	375	34	1199
Pulley. Belt-	W. J. Innis	342,910	June [illegible]	188	48	35	1039
Pulley. Belt-	F. Siebert	337,024	Mar. [illegible]	197	52	34	961
Pulley-belter	F. B. Ray	346,067	July 2[illegible]	1810	467	36	337
Pulley-block	G. W. Clark	334,071	Jan. 12	799	219	34	156
Pulley-block. Differential	T. H. Ward	336,364	Feb. 18	1842	483, 484	34	781
Pulley. Clothes-line	J. S. Collins and E. J. Lyons	349,482	Sept. 21	1298	337	36	1302
Pulley-covering. Wooden	W. H. Dodge	348,270	Aug. 3[illegible]	2561	688	36	968
Pulley. Expanding	J. M. Herman	334,377	Jan. 1[illegible]	1252	338	34	240
Pulley. Expansion-	C. F. Morse	352,062	Nov. [illegible]	481	130	37	549
Pulley frame. Sash-cord-	O. Lacourse	348,979	Sept. 1[illegible]	605	159	36	1164
Pulley. Friction-	W. W. Wells	349,547	Sept. 2	1387	359	36	1320
Pulley. Friction-clutch	E. B. Benham	339,845	Apr. 1[illegible]	1084	269	35	199
Pulley. Hoisting-	H. Butters	349,691	Sept. 2	1572	407	36	1364
Pulley. Loose	G. T. Eames	335,183	Feb. [illegible]	137	35	34	465
Pulley. Loose	J. T. Miller	333,962	Jan. [illegible]	635	175	34	120
Pulley or clutch. Friction	H. Inman	351,447	Oct. 2[illegible]	1943	506	37	372
Pulley. Sash-	W. Goforth	350,195	Oct. [illegible]	136	39	37	29
Pulley. Wooden	C. McNeal	351,064	Oct. 1[illegible]	1384	363	37	265
Pulleys. Machine for molding	W. J. F. Liddell	333,765	Jan. [illegible]	368	100	34	69
Pulleys to shafts. Securing	G., E., and N., Jr., Smith	353,329	Nov. 3	2237	599	37	909
Pulp. Apparatus for making hollow ware from	H. Carmichael	342,180	May 1	1652	441	35	831
Pulp. Apparatus for making vessels out of	H. Carmichael	342,176	May 1	1649	441	35	831
Pulp. Apparatus for preparing wood and other fibrous material for conversion into	F. B. Erwin	353,056	Nov. 2	1857	501	37	828
Pulp. Article manufactured from	F. B. Howard	352,993	Nov. 2	1752	470	37	810
Pulp-beating engine	F. J. Marshall	342,802	June [illegible]	39	10	35	1013
Pulp-grinder	W. H. Howell. (Reissue)	10,713	Apr. 2	2060	531	35	383
Pulp grinder. Wood-	J. D. Powers	342,759	May 2	2510	668, 669, 670	35	995
Pulp. Machine for forming hollow articles from	M. L. Keyes	342,609	May 2	2293	607	35	954
Pulp. Machine for forming hollow ware from	H. Parker	348,292	Aug. 3	2588	696	36	974
Pulp. Machine for the manufacture of wood	G. H. Pond	351,067	Oct. 1	1388	364, 365	37	266
Pulp machine. Wood-	W. Curtis	342,075	May 1[illegible]	1524	407	35	807
Pulp machinery. Wood-	W. Curtis	342,074	May 1	1523	406	35	807
Pulp. Manufacture of wood and other	G. H. Pond	351,068	Oct. 1	1389	365	37	266
Pulverizer	L. Findley	342,593	May 2	2266	601	35	949
Pulverizer	H. S. Howard	353,947	Dec. [illegible]	430	117	37	1085
Pulverizer	W. H. Howland	336,321	Feb. 1[illegible]	1784	466	34	770
Pulverizer	G. Mead	335,527	Feb. [illegible]	1042	276	34	634
Pulverizer	E. J. Schuman	353,973	Dec. [illegible]	472	128	37	1093
Pulverizer and plow. Combined	D. W. Evans	354,507	Dec. 1[illegible]	1245	333	37	1240
Pulverizer and seeder	S. Shaw	335,966	Feb. [illegible]	1240	329	34	669
Pulverizer. Clay-	W. N. Graves	340,999	May [illegible]	38	10	35	513
Pulverizer, cultivator, and road-scraper. Combined	G. Neutasscher	350,762	Oct. 1[illegible]	930	251	37	176
Pulverizer for drugs, &c	R. W. Seger	334,392	Jan. 1[illegible]	1143	306	34	220
Pulverizer, harrow, and cultivator. Combined	J. L. and E. D. Claudin	347,573	Aug. 1[illegible]	1538	409	36	765
Pulverizer. Soil-	F. A. Hepworth and L. Santany	353,491	Nov. 30	2473	661	37	953
Pulverizing machine	H. B. Feldmann	347,480	Aug. 17	1409	375	36	741
Pulverizing machine	W. M. Fuller and J. J. Hayes	335,573	Feb. 9	681	179, 180	34	569
Pulverizing machine	W. M. Fuller and J. J. Hayes	335,574	Feb. 9	683	180	34	569
Pulverizing machine	W. M. Fuller and J. J. Hayes	352,459	Nov. 9	1037	279	37	660
Pulverizing machine	J. R. Woodburn	334,098	Jan. 12	841	230, 231	34	163
Pulverizing-mill	R. Forbes	342,506	May 25	2158	571	35	928
Pulverizing-mill	E. A. Wall	337,901	Mar. 16	1369	355	34	1185
Pulverizing-mill	F. Wanneveich	350,325	Oct. 5	183	52	37	37
Pulverizing roller and attachment. Clay-	H. R. Hopkins	350,744	Oct. 12	906	243	37	172
Pump	W. P. Andrews	337,040	Mar. 9	213	56	34	964
Pump	H. M. D. L. Babcox	334,211	Jan. 12	1023	272	34	198
Pump	R. Bean	334,732	Jan. 26	1754	467	34	346
Pump	R. Bean	348,881	Sept. 7	466	123	36	1133
Pump	P. J. Bode	340,414	Apr. 20	1882	483	35	350
Pump	A. R. Brown and W. H. Bell	350,108	Oct. 5	18	5	37	7
Pump	D. B. Cahow	349,205	Sept. 14	915	235	36	1219
Pump	G. F. Case	339,617	Apr. 13	768	190	35	142
Pump	M. M. Chew	350,605	Oct. 12	1001	268	37	189
Pump	W. H. Cloud	345,116	July 6	440	113	36	80
Pump	J. W. Collier	334,936	Jan. 26	2003	534	34	393

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Pump	D. E. Darnell	336,039	Feb. 9	1339	354	34	686
Pump	J. J. De Kinder	335,111	Feb. 2	14	5	34	443
Pump	H. Field	338,147	Mar. 16	1708	445	34	1248
Pump	J. P. Ford	338,591	Mar. 23	2309	605	34	1363
Pump	P. D. Hines	337,402	Mar. 9	699	182	34	1061
Pump	J. Humphreys, Jr	336,857	Feb. 23	2511	663	34	910
Pump	C. Jensen	346,206	July 27	2005	517	36	384
Pump	O. Junkerman	347,112	Aug. 10	881	233	36	635
Pump	R. I. Knapp	345,384	July 13	808	204	36	151
Pump	J. M. Laing	337,167	Mar. 2	382	99	34	996
Pump	W. W. Laing and S. S. Hutchins	341,923	May 18	1312	351	35	768
Pump	S. W. Martin	339,445	Apr. 6	475	115	35	88
Pump	S. W. Martin	354,920	Dec. 28	1850	489	37	1371
Pump	W. F. Mattes	336,654	Feb. 23	2250	586	34	859
Pump	G. Melcher	343,827	June 15	1526	385	35	1298
Pump	H. C. Montgomery	334,795	Jan. 26	1831	488	34	361
Pump	L. Nasi	341,042	May 4	91	26	35	522
Pump	E. Neff	339,005	Mar. 30	2926	775	34	1478
Pump	E. Neff	350,761	Oct. 12	929	250	37	176
Pump	J. M. Normand	336,940	Mar. 2	76	20, 21	34	940
Pump	I. W. Numan	334,605	Jan. 19	1572	420	34	305
Pump	T. Patten, Jr., and C. Anderson	349,951	Sept. 28	1944	503	36	1434
Pump	G. W. Phillipe	344,133	June 22	1951	498	35	1383
Pump	M. Russell	336,263	Feb. 16	1702	443	34	754
Pump	C. Schubert	348,060	Aug. 24	2255	603	36	905
Pump	J. M. Sparks	351,288	Oct. 19	1683	441	37	320
Pump	F. M. Stevens	341,180	May 4	296	83	35	558
Pump	L. Teague	353,897	Dec. 7	356	94	37	1072
Pump	B. C. Vanduzen	354,669	Dec. 21	1499	397	37	1292
Pump. Air-	P. Clerc	341,453	May 11	679	182	35	638
Pump. Air-	H. Gazaille and H. F. Low	349,428	Sept. 21	1222	317	36	1287
Pump. Air-	P. Wrady	340,928	Apr. 27	2596	684	35	484
Pump and blower. Rotary	H. Salomo	351,129	Oct. 19	1472	385, 386	37	282
Pump and condenser. Donkey-engine	J. Kirkaldy	336,522	Feb. 16	2051	538, 539	34	819
Pump and motor. Combined	J. Mills	340,343	Apr. 20	1793	459	35	334
Pump and vent. Air-	T. B. Carroll	351,358	Oct. 26	1786	469	37	345
Pump. Balanced	H. S. Ramsey	340,241	Apr. 20	1642	416	35	306
Pump. Beer-	M. L. Deering	342,901	June 1	175	44, 45	35	1037
Pump. Beer-	P. R. Greene	338,838	Mar. 30	2678	705	34	1434
Pump. Beer-	H. C. Montgomery	348,333	Aug. 31	2639	712	36	985
Pump. Beer-	J. J. Seiwert	338,560	Mar. 23	2272	595	34	1357
Pump. Boat-	C. P. Carlson	346,720	Aug. 3	340	93	36	527
Pump-bucket	R. W. Wheeler and S. Q. Duntley	333,802	Jan. 5	418	113	34	79
Pump bucket. Chain-	A. Wyckoff	343,685	June 15	1338	334	35	1263
Pump bucket. Endless chain-	G. H. Shellaberger	348,298	Aug. 31	2600	700	36	977
Pump. Cattle-	J. A. Newman	342,627	May 25	2120	612	35	959
Pump. Centrifugal	J. M. Ancira	342,723	May 25	2462	652	35	985
Pump. Centrifugal	E. J. Hawley	336,807	Feb. 23	2447	642	34	897
Pump. Centrifugal	E. J. Hawley	350,362	Oct. 5	348	100	37	70
Pump. Centrifugal	W. O. Webber	337,216	Mar. 2	442	116	34	1008
Pump. Centrifugal or rotary	J. Gwynne	342,297	May 18	1828	483	35	862
Pump. Chain-	J. N. Morrison	336,817	Feb. 23	2463	646	34	900
Pump. Chain-	M. S. Tyler and T. H. Carter	337,354	Mar. 2	631	166	34	1043
Pump. Combined force and lift	G. S. Ayer	338,689	Mar. 30	2461	649	34	1395
Pump. Combined suction and force	M. Harrold	344,445	June 29	2382	613	35	1468
Pump-cylinder	H. Jones	354,982	Dec. 28	1934	511	37	1388
Pump. Double-acting	H. R. Adams	333,808	Jan. 5	425	116	34	80
Pump. Double-acting	T. Dyson	350,875	Oct. 12	1095	292	37	207
Pump. Double-acting	J. Feerick	340,910	Apr. 27	2572	677	35	479
Pump. Double-acting	W. D. Hooker	349,047	Sept. 14	703	179, 180	36	1179
Pump. Double-acting	T. Northey	345,253	July 6	636	159	36	113
Pump. Double-acting	H. S. Ramsey	350,770	Oct. 12	942	253	37	179
Pump. Double-acting	F. L. Wheeler	336,459	Feb. 16	1974	517	34	805
Pump. Double-acting	C. B. Wylie	345,657	July 13	1239	321	36	229
Pump. Double-acting force-	J. Waters	340,020	Apr. 13	1321	330, 331	35	242
Pump. Duplex propeller-	J. R. and L. T. Fisher	338,148	Mar. 16	1710	445, 446	34	1248
Pump. Electric air-	A. B. Worth	337,803	Mar. 9	1229	319	34	1153
Pump. Electric air-	A. B. Worth	337,804	Mar. 9	1231	320	34	1153
Pump for the production of high vacuums	A. L. Reimmann	338,552	Mar. 23	2256	593	34	1354
Pump for wells	D. K. Keller	348,286	Aug. 31	2581	694	36	973
Pump. Force-	J. W. Bramley	340,277	Apr. 20	1697	432	35	315
Pump. Force-	O. K. Chance	340,092	Apr. 20	1423	360	35	265
Pump. Force-	J. J. Deal	337,749	Mar. 9	1161	302	34	1141
Pump. Force-	H. O. Hood	342,696	May 25	2417	640	35	977
Pump. Force-	J. W. Van Order	348,361	Aug. 31	2673	720	36	991
Pump. Gas-	C. G. Mayer	350,378	Oct. 5	367	105	37	74
Pump. Gas-engine	F. B. Taylor	347,137	Aug. 10	916	244	36	642
Pump. Hand force-	A. Stevens	334,483	Jan. 19	1411	380	34	275
Pump. Lift-	J. A. J. Arnold	338,687	Mar. 30	2459	649	34	1395
Pump. Lifting-	H. Jones	345,145	July 6	482	123	36	88
Pump. Measuring-	H. Amerland	352,671	Nov. 16	1319	355	37	719
Pump. Measuring-	A. B. Simonds	336,761	Feb. 23	2388	626	34	887
Pump. Measuring-	W. B. F. Sims	351,538	Oct. 26	2082	540	37	400
Pump. Mining-	J. B. Lyons	347,724	Aug. 17	1765	471	36	806
Pump-motor	J. A. and A. S. Hockenberry	353,063	Nov. 23	1863	503	37	830
Pump. Oil-	P. Hight	345,431	July 13	886	220	36	165
Pump. Oil-	C. Hirsch	354,419	Dec. 14	1112	299	37	1217
Pump or similar apparatus. Rotary	C. T. Colebrook	345,865	July 20	1561	402	36	292
Pump-piston	W. H. Wheeler	349,830	Sept. 28	1788	462	36	1404

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Pages.
Pump-piston. Deep-well	G. Hodson	337,496	Mar. 9	852	215	34	1085
Pump. Pneumatic	R. Adlung	349,777	Sept. 28	1715	442	36	1388
Pump pressure-regulator. Steam	W. B. Mason	334,079	Jan. 12	808	222	34	158
Pump pressure-regulator. Steam	W. B. Mason	334,080	Jan. 12	812	222	34	158
Pump-regulator	J. H. Blessing	347,559	Aug. 17	1518	403	36	701
Pump-rod coupling	C. M. Bartholomew	336,783	Feb. 23	2418	636	34	892
Pump. Rotary	J. Brewer	353,199	Nov. 23	2060	550	37	870
Pump. Rotary	C. H. Cary	346,722	Aug. 3	343	93	36	528
Pump. Rotary	J. O. Cheever	349,270	Sept. 14	1003	256	36	1237
Pump. Rotary	J. G. and P. E. Falcon	346,471	Aug. 3	30	8	36	466
Pump. Rotary	B. F. Taber	344,063	June 22	1871	475	35	1365
Pump. Rotary air	J. F. Barker	341,571	May 18	1243	333	35	1365
Pump. Spraying	J. Bean	337,919	Mar. 16	1391	361	34	1189
Pump. Spraying	J. Bean	351,088	Oct. 19	1419	372	37	271
Pump. Steam	J. T. Leftwick	350,632	Oct. 12	756	207	37	145
Pump. Steam	E. A. Marsh	345,311	July 13	711	179, 180	36	134
Pump. Steam	H. J. Oliver	350,763	Oct. 12	932	251	37	177
Pump. Steam	C. Tufts	341,393	May 4	594	163	35	612
Pump. Steam-jet	J. A. Marsh	334,597	Jan. 19	1560	417	34	303
Pump. Steam vacuum	F. A. Hensley	339,649	Apr. 13	818	201	35	150
Pump. Stomach	F. A. Stohlmann	340,739	Apr. 27	2352	619	35	439
Pump. Storage air	W. F. Stark	342,714	May 25	2443	648	35	982
Pump. Submerged	C. M. Brown	345,271	July 13	656	167	36	125
Pump. Submerged force	L. A. Kelly	350,002	Sept. 28	2013	520	36	1447
Pump system. Electric air	A. B. Worth	348,606	Sept. 7	102	29	36	1066
Pump-valve	J. J. Burch and J. B. Scovill	334,105	Jan. 12	850	234	34	165
Pump-valve	F. L. Weimer	353,997	Dec. 7	503	136	37	1098
Pumps. Automatic attachment for working ships'	E. Everding	348,956	Sept. 14	570	152	36	1157
Pumps. Check-valve for	H. D. Root	339,584	Apr. 6	721	177	35	126
Pumps. Compound gearing for air	L. C. Huber	339,654	Apr. 13	823	202	35	151
Pumps. Condenser for steam	W. Craig	346,195	July 27	1985	512	36	381
Pumps. Expansion rubber bucket for chain	S. A. Goss	347,342	Aug. 17	1209	323	36	704
Pumps. Gearing for operating	A. Jeffery	335,201	Feb. 2	161	42	34	470
Pumps. Governor for circulator	W. H. Brooks	353,776	Dec. 7	169	47	37	1038
Pumps. Heater and condenser for steam force	W. S. Wandell	347,215	Aug. 10	1023	272	36	561
Pumps or compressors. Regulator for	J. Clayton	351,043	Oct. 19	1358	357	37	261
Pumps. Rubber bucket for chain	M. D. Temple	346,960	Aug. 10	659	176	36	595
Pumps. Steam-valve gear for duplex steam	J. S. Klein	336,924	Mar. 2	57	15	34	937
Pumps, &c. Valve for	W. Z. Haight	336,406	Feb. 16	1900	497	34	792
Pumps. Valve for mercurial	A. L. and C. F. Reinmann	345,543	July 13	1064	271	36	197
Pumps. Vent-hole closer for	E. S. Babcock	349,680	Sept. 28	1557	403	36	1361
Pumps. Winding-up mechanism for rotary air	C. F. Hovey	355,018	Dec. 28	1982	522	37	1396
Pumping and drilling machine	A. W. Carnahan	341,637	May 11	928	246	35	686
Pumping apparatus	P. F. Guthrie	343,765	June 15	1456	364	35	1284
Pumping apparatus. Electrical	M. A. Michales and A. Michaels	354,838	Dec. 21	1727	457	37	1586
Pumping apparatus for oil-wells	D. T. Lane	342,112	May 18	1575	420	35	817
Pumping-engine	E. Andrews	354,822	Dec. 21	1707	452	37	1332
Pumping-engine	W. A. P. Bicknell	354,091	Dec. 14	637	173, 174	37	1131
Pumping-engine. Beam	B. Obenchain	335,475	Feb. 2	533	140	34	537
Pumping-engine. Steam	J. D. Davies	340,984	May 4	18	5, 6	35	509
Pumping-engine. Steam	J. L. Lowry	350,755	Oct. 12	919	247, 248, 249	37	175
Pumping-engine. Steam	A. Warth	348,076	Aug. 24	2277	610	36	910
Pumping machinery. Operating-lever for	J. Wheelock	349,551	Sept. 21	1391	360	36	1321
Punch	M. B. Blackmer	350,968	Oct. 19	1224	324	37	237
Punch	T. M. Platts and O. B. Crane	337,077	Mar. 2	258	69	34	974
Punch	F. H. Richards	353,817	Dec. 7	232	63	37	1049
Punch and die for trimming shells	R. White	348,440	Aug. 31	2795	751	36	1015
Punch and register. Ticket	G. J. Thorpe and J. H. Richardson	343,090	June 1	447	114, 115	35	1088
Punch. Belt	H. Bouchy and J. H. Bamberger	334,215	Jan. 12	1026	273	34	199
Punch. Clinching	J. R. Watson	337,036	Mar. 2	208	55	34	964
Punch for perforating paper. Hand	G. W. McGill	351,645	Oct. 26	2244	581	37	429
Punch. Hat-ventilating	G. Yule	340,406	Apr. 20	1872	481	35	349
Punch. Portable hand	G. E. Nuebling	340,727	Apr. 27	2335	616	35	436
Punch. Ticket	L. O. Crocker	350,349	Oct. 5	331	94	37	67
Punch. Ticket	D. M. Kirkpatrick	341,756	May 11	1087	289	35	719
Punch. Ticket	R. Woodman	351,556	Oct. 26	2101	545	37	404
Punches. Socket for	R. White	353,189	Nov. 23	2048	546	37	867
Punches. Socket for	R. White	353,192	Nov. 23	2053	547	37	868
Punching and eyeleting machine	C. A. Corman	348,190	Aug. 31	2449	658	36	947
Punching and feeding scraps of sheet metal. Machine for	C. M. Platt	334,190	Jan. 12	981	264	34	189
Punching and shearing device. Combined	G. McDonald	336,335	Feb. 16	1802	471	34	774
Punching and shearing machine	G. McDonald	343,917	June 15	1641	420	35	1321
Punching and stitching eyelet-holes. Machine for	J. W. Blodgett	345,663	July 20	1247	323	36	237
Punching device	R. Allstatter	334,554	Jan. 19	1507	403	34	292
Punching drafts and checks. Machine for	J. M. Hopkins	340,214	Apr. 20	1603	405, 406	35	299
Punching-machine	R. H. Dowell	337,139	Mar. 2	345	89	34	989
Punching-machine	E. H. Phipps	340,817	Apr. 27	2451	645	35	458
Punching-machine	C. Roach	351,340	Oct. 19	1752	461	37	333
Punching-machine	H. Tay	334,139	Jan. 12	894	245	34	174
Punching-machine	W. Whited	335,866	Feb. 9	1097	290	34	646
Punching-machine	L. Wildermuth	349,072	Sept. 14	736	188	36	1185
Punching machine. Check-	J. M. Montgomery, Jr.	334,264	Jan. 12	1108	297	34	213
Punching-machine table	H. Warden	336,677	Feb. 23	2284	597	34	866
Punching-machines. Feed-table for	C. T. Parry	343,842	June 15	1546	391, 392	35	1301
Punching, shearing, and embossing machine	W. Renshaw and N. W. Thillman	353,589	Nov. 30	2624	700, 701	37	982

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Purifier: *See* Middlings-purifier.							
Purse, bag, &c	G. B. Adams	336,541	Feb. 23	2081	547	34	831
Purse-fastener	J. Menahan	345,067	July 6	377	95	36	69
Push-button	F. E. Fisher	336,003	Feb. 9	1291	343	34	678
Putting-out machine	J. W. Vaughn	344,062	June 22	1857	477, 478	35	1366
Puzzle	A. W. Butterworth	351,493	Oct. 26	2018	524	37	387
Puzzle	J. H. Collins and G. E. Odell	343,511	June 8	1093	274	35	1212
Puzzle	J. L. Dibble	340,2[illegible]	Apr. 20	1727	440	35	320
Puzzle	C. G. Dress	345,2[illegible]	July 13	681	171, 172	36	129
Pyrometer	J. Frew	339,756	Apr. 13	969	239	35	177
Pyrotechnic-throwing device	E. C. Bruen	343,103	June 1	468	119	35	1091
Pyroxyline compounds and other plastic materials. Manufacture of solid rings from	E. Kipper	335,935	Feb. 9	1201	320	34	663
Pyroxyline. Drying	G. M. Mowbray	349,659	Sept. 21	1523	.....	36	1348
Pyroxyline. Manufacture of	G. M. Mowbray	350,497	Oct. 12	559	.....	37	110
Pyroxyline. Manufacture of	G. M. Mowbray	350,498	Oct. 12	562	156	37	110
Pyroxyline or analogous substances upon a mandrel. Process of and apparatus for mounting	J. B. Edson	350,049	Sept. 28	2068	534, 535	36	1458
Pyroxyline. Process of and apparatus for washing, decoloring, and draining	G. M. Mowbray	349,658	Sept. 21	1521	393	36	1348
Quartz breaker and pulverizer	E. I. Nichols	344,004	June 22	1759	453	35	1349
Quartz-mill	F. A. Hill	342,093	May 18	1553	415	35	813
Quartz. Mill for pulverizing	G. Frisbee	337,570	Mar. 9	947	242	34	1103
Quicksand. Sinking shafts through	W. S. Smith	340,384	Apr. 20	1849	474, 475	35	344
Quilting bed-comfortables, &c. Machine for	F. L. Palmer	334,275	Jan. 12	1120	300, 301	34	216
Quilting-frame	A. B. Walker	353,042	Nov. 23	1833	493	37	824
Quilting-frame	J. E. Wright	345,267	July 6	647	164	36	117
Quilting-machine	D. H. Coles	340,863	Apr. 27	2512	661, 662	35	468
Quilting-machine	I. Deutsch	354,049	Dec. 7	578	156, 157	37	1111
Quilting-machine	J. Happe	349,090	Sept. 14	761	194, 195	36	1190
Quilting-machine	A. Hildt	338,525	Mar. 23	2225	584	34	1349
Quilting-machine	A. Hildt	343,029	June 1	353	91, 92	35	1071
Quilting-machine	W. Koch	334,955	Jan. 26	2029	541, 542	34	397
Quilting-machine	M. H. Marcus	337,178	Mar. 2	401	104	34	1000
Quilting-machine	J. and J. Nightingale	348,336	Aug. 31	2643	713	36	985
Quilting-machine	L. Schultz	351,468	Oct. 26	1978	515	37	379
Quilting-machines. Pattern mechanism for	F. L. Palmer	340,349	Apr. 20	1803	462, 463	35	336
Quoins. Key for locking	J. N. O. Hankinson	346,156	July 27	1937	499	36	371
Race-ring holder. Duplex	J. W. Wattles	335,728	Feb. 9	905	239	34	610
Rack: *See* Broom-rack. Card-rack. Cloak-rack. Clothes-rack. Coat-rack. Coat and hat rack. Display-rack. Feed-rack. Feeding-rack. Folding-rack. Fruit-drying rack. Goods-rack. Hat and coat rack. Hay-rack. Pen-rack. Pool-ball rack. Revolving or stationary rack. Sheep-shearing rack. Show-rack. Stock-rack. Stock and hay rack. Stove-rack. Suspension-rack. Towel-rack. Wagon-rack. Whip-rack.							
Rack and table. Combined	L. M. Eirick	348,271	Aug. 31	2563	688	36	968
Rack or stand for holding manuscript or other matter to be copied	S. B. Costen	354,045	Dec. 7	571	155	37	1109
Rack or stand. Hat, bonnet, and apparel	J. C. Lavaggi	346,293	July 27	2124	547	36	407
Radiator	J. Askins	350,336	Oct. 5	317	90	37	64
Radiator	F. Marak, Jr	339,442	Apr. 6	469	114	35	87
Radiator	J. R. Reed	347,127	Aug. 10	897	240	36	638
Radiator	C. E. Safford	355,216	Dec. 28	2267	597	37	1452
Radiator	T. H. Williams, S. D. Tompkins, and J. N. Matlock	343,512	June 8	1088	273	35	1211
Radiator. Air-heating-furnace	C. P. Zimmerman	350,452	Oct. 5	484	136	37	93
Radiator attachment. Steam-	M. S. Durrell and A. L. Gebhard	347,476	Aug. 17	1403	374	36	739
Radiator. Steam-	J. Barnett and C. S. Bavier	338,911	Mar. 30	2786	734	34	1454
Radiator. Steam-	E. F. Laudis	351,271	Oct. 19	1661	436	37	317
Radiator. Steam-heating	W. W. Carman	348,615	Sept. 7	115	32	36	1068
Radiators. Air-valve for	J. P. Marsh	353,639	Nov. 30	2713	724, 725	37	996
Radiators. Air-valve for	E. K. Rollins	350,844	Oct. 12	1059	283	37	200
Radiators. Loop-pipe for	G. W. Walker	353,900	Dec. 7	360	96	37	1073
Rafters. Instrument for obtaining lengths and bevels of	H. Conlee	348,723	Sept. 7	258	69	36	1095
Rafting logs, timbers, &c	H. R. Robertson	338,104	Mar. 16	1660	431	34	1238
Rafts and booms. Plug for	T. Irvine	336,920	Mar. 2	53	14	34	936
Rag-cleaning machine	E. M. Scott	342,392	May 25	1983	523	35	898
Rag or worsted worker	W. Bailey and H. P. Vigars	340,189	Apr. 20	1568	396	35	292
Rags and other material. Machine for cutting	G. W. D. Upton	351,060	Oct. 19	1404	369	37	269
Rail-bender	A. A. Strom	344,793	June 29	2848	738	35	1555
Rail-brace	P. F. Barr	346,979	Aug. 10	682	181	36	599
Rail-brace	T. A. Griffin	338,953	Mar. 30	2838	748	34	1464
Rail-braces. Blank for	W. A. Bock	342,173	May 18	1647	440	35	831

Alphabetical list of inventions—Continued.

Invention.	Name	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Rail-braces. Manufacture of	C. Alkins	352,286	Nov. 9	818	219	37	616
Rail-breaking machine	A. and R. Hill and C. M. Bevan	344,735	June 29	2767	717	35	1539
Rail-chair. Base-plate for a	P. De Guerre	338,589	Mar. 23	2308	604	34	1362
Rail-clearer	A. F. Priest	345,257	July 6	632	161	36	115
Rail-frog and switch. Automatic	C. Buhrer	352,078	Nov. 2	503	135	37	553
Rail-frog and switch. Automatic continuous	C. Buhrer	352,079	Nov. 2	505	136	37	554
Rail-frog. Automatic continuous	F. C. Weir	348,078	Aug. 24	2280	611	36	910
Rail-joint	J. W. Buck	341,829	May 11	1182	316	35	737
Rail-joint	C. Fisher	341,567	May 11	832	222	35	668
Rail-joint	C. Fisher	351,169	Oct. 19	1523	399	37	292
Rail-joint	J. B. Guillaume and P. F. Fish	343,124	June 1	566	128	35	1078
Rail-joint	R. V. Jones	351,324	Oct. 19	1733	455	37	329
Rail-joint	M. E. Lewis and C. A. Dodge	354,426	Dec. 14	1122	301	37	1219
Rail-joint	F. J. Powers	346,826	Aug. 3	457	125	36	549
Rail-joint	M. G. Shindle	344,924	July 6	178	45	36	33
Rail-joint	J. Shipley	334,056	Jan. 12	778	213	34	152
Rail-joint	E. A. Temple	348,704	Sept. 7	237	63	36	1090
Rail-joint support	A. H. Ege	349,305	Sept. 21	1038	266	36	1252
Rail-joint truss	J. McEwen	335,292	Feb. 2	292	77	34	493
Rail. Safety-guard	H. Gilleas	348,734	Sept. 7	272	73	36	1098
Rail-sawing machine	E. C. Smith	340,682	Apr. 27	2267	597	35	424
Rail-straightening machine	A. J. Gustin	343,270	June 8	719	179 180	35	1146
Rail-support	F. W. Snow	338,796	Mar. 30	2618	690	34	1423
Rails. Circuit-closer for	W. Daves	349,926	Sept. 28	1900	492 493	36	1426
Rails. Machine for stamping	H. C. Kriete and W. Gillies	337,837	Mar. 16	1285	333	34	1170
Rails. Repairing	G. Straffon	354,493	Dec. 14	1322	327	37	1236
Rails. Roll for rolling girder-	T. L. Beaman	347,283	Aug. 10	1113	298	36	678
Rails. Rolls for making tram-	P. Kirk	345,512	July 13	995	252	36	185
Rails. Rolls for reducing old	S. McCloud	350,833	Oct. 12	1041	278	37	197
Rails. Rolls for reworking old	J. D. Williams and G. P. Raidabaugh	341,529	May 11	774	208	35	657
Rails. Rolls for reworking old	J. D. Williams and G. P. Raidabaugh	341,530	May 11	775	208	35	657
Rails. Rolls for rolling fish-bars from old	G. Westholm	347,910	Aug. 10	1150	310	36	686
Rails. Rolls for rolling girder-	A. J. Moxham	344,396	June 29	2119	598	35	1457
Rails to flat plates. Rolling old	J. Reese	350,557	Oct. 12	640	176	37	124
Rails to street-rails. Rolling old	J. Reese	350,558	Oct. 12	641	176	37	124
Rails. Utilizing old	J. Reese	346,498	Aug. 3	62	15	36	472
Railing. Tubular iron	T. R. A. Weber	340,261	Apr. 20	1679	427	35	312
Railway	T. P. Chandler, Jr.	346,624	Aug. 3	345	94	36	523
Railway	E. C. Jones	349,846	Sept. 28	1810	467 468	36	1403
Railway	H. L. Stillman	341,699	May 11	1021	270	35	765
Railway accidents. Self-acting apparatus for preventing	J. Duboc	343,988	June 22	1739	448	35	1346
Railway alarm-signal	H. S. Unangst	340,390	Apr. 20	1855	476	35	346
Railway and car. Aerial	A. J. Morrison	342,757	May 25	2507	668	35	995
Railway appliance	J. E. Nathan	353,754	Dec. 7	140	38	37	1032
Railway-brake	E. D. Eames	354,401	Dec. 14	1093	293	37	1213
Railway-brake	J. Kernaghan	342,799	June 1	36	9	35	1012
Railway-brake	H. K. Whitner	340,531	Apr. 20	2049	527	35	381
Railway-brake. Atmospheric	R. Solano	344,058	June 22	1844	473	35	1363
Railway-brake. Dynamo-electric	C. J. Van Depoele	347,904	Aug. 24	2029	537	36	863
Railway-brake. Electro-magnetic	C. J. Van Depoele	348,360	Aug. 31	2672	720	36	991
Railway-brake. Vacuum	R. Solano	351,473	Oct. 26	1989	517	37	381
Railway-brakes. System of motors for electric	C. J. Van Depoele	352,167	Nov. 9	662	176	37	587
Railway. Cable	R. F. Bridewell	343,981	June 22	1730	444	35	1344
Railway. Cable	P. M. Bruner	345,616	July 13	1161	298	36	215
Railway. Cable	J. J. Endres	347,784	Aug. 24	1852	493	36	831
Railway. Cable	R. Gillham	336,561	Feb. 23	2107	554	34	835
Railway. Cable	R. Gillham	345,378	July 13	801	202	36	150
Railway. Cable	W. G. Huey and T. J. Lovegrove	339,655	Apr. 13	824	203	35	152
Railway. Cable	J. P. Hunt	354,141	Dec. 14	724	194	37	1145
Railway. Cable	H. M. Lane	342,368	May 25	1950	515 516	35	893
Railway. Cable	H. M. Lane	353,313	Nov. 30	2217	591	37	905
Railway. Cable	T. J. Lovegrove	353,321	Nov. 30	2327	597	37	907
Railway. Cable	E. O. McGlaughlin	347,624	Aug. 17	1610	427	36	779
Railway. Cable	J. J. Schillinger	337,623	Mar. 9	1068	259	34	1115
Railway. Cable	A. A. Shobe	337,451	Mar. 9	797	203	34	1076
Railway. Cable	G. Warburton	353,183	Nov. 23	2037	544 545	37	865
Railway-cable grip	C. T. Ryland, Jr.	354,873	Dec. 21	1779	469	37	1316
Railway-car signal	S. Forman	354,766	Jan. 26	1797	478	34	355
Railway-car signal	R. Solano	349,959	Sept. 28	1955	505	36	1436
Railway-carriages. Rotary chair for	H. C. Dickinson	341,098	May 4	167	51	35	535
Railway cattle-guard	D. S. Lermond	355,183	Dec. 28	2220	586	37	1442
Railway-chair	J. M. Fennerty	335,067	Jan. 26	2192	582	34	425
Railway-chair	J. M. Fennerty	354,117	Dec. 14	682	183 184	37	1139
Railway circuit. Electric-	F. L. Pope	333,970	Jan. 5	645	177	34	121
Railway circuit. Electric-	F. L. Pope	334,608	Jan. 19	1577	420	34	306
Railway-coaches, &c. Cuspidor for	J. B. McLain	347,189	Aug. 10	988	264	36	655
Railway construction. Cable-	Z. P. Boyer	354,331	Dec. 21	1284	342	37	1254
Railway construction. Cable-	T. L. Johnson	333,953	Jan. 5	624	170 171	34	117
Railway-coupling for rails	J. Vreeland	340,742	Apr. 27	2357	621	35	440
Railway cross-tie	S. D. Locke	353,691	Dec. 7	52	14	37	1016
Railway cross-tie	E. R. Procter	347,734	Aug. 17	1777	474	36	808
Railway-crossing	M. A. Dilley	337,253	Mar. 2	496	129 130	34	1017
Railway-crossing	E. Fontaine	355,156	Dec. 28	2180	575	37	1434
Railway-crossing	J. Gray	334,427	Jan. 19	1329	360	34	260
Railway-crossing	F. Robinson	351,403	Oct. 26	1884	491	37	361

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Railway-crossing	W. T. Shannon	346,229	July 27	2030	524	36	390
Railway-crossing alarm-signal	G. Smith	335,643	Feb. 9	782	207, 208	34	587
Railway-crossing gate	A. Farrar and M. B. Mills	342,680	May 25	2402	637	35	975
Railway-crossing gate	C. C. Kleckner and J. R. T. Coates	350,750	Oct. 12	913	245	37	173
Railway-crossing gate	T. H. Knollin	351,325	Oct. 19	1733	456	37	329
Railway-crossing gate	A. G. Miller	344,540	June 29	2520	650	35	1493
Railway-crossing gate	M. Wilder	351,552	Oct. 26	2097	544	37	403
Railway-crossing gate. Automatic	C. R. Brooks	344,029	June 22	1799	463, 464	35	1356
Railway-crossing safety-gate	R. C. Blackall	334,930	Jan. 26	1996	532	34	391
Railway-crossing safety-gate	W. Hanley	338,063	Mar. 16	1593	414, 415	34	1225
Railway-crossing signal	J. McCrea	351,456	Oct. 26	1958	510	37	375
Railway-crossing signal	W. Vogel	347,732	Aug. 17	1801	480	36	813
Railway-crossings. Pneumatic signal for	B. C. Vanduzen	342,720	May 25	2454	651	35	984
Railway-crossings. Signal-alarm and safety-gate for	E. C. Phillips	351,336	Oct. 19	1746	459, 460	37	332
Railway curve. Horse-	A. Bracken	354,883	Dec. 28	1795	473	37	1362
Railway-curves, &c. Rail for	L. Brigham	352,113	Nov. 9	568	151	37	572
Railway danger-signals. Apparatus for operating	H. A. Buck	333,919	Jan. 5	574	155, 156	34	108
Railway. Electric	E. M. Bentley	338,022	Mar. 16	1549	401	34	1217
Railway. Electric	E. M. Bentley	343,101	June 1	465	118	35	1091
Railway. Electric	E. M. Bentley	343,884	June 15	1601	407	35	1312
Railway. Electric	T. A. Edison	339,278	Apr. 6	234	58	35	43
Railway. Electric	J. C. Henry	345,845	July 20	1504	390, 391	36	282
Railway. Electric	W. H. Knight	338,080	Mar. 16	1616	421	34	1229
Railway. Electric	W. H. Knight	338,081	Mar. 16	1617	421	34	1230
Railway. Electric	W. H. Knight	338,082	Mar. 16	1618	421	34	1230
Railway. Electric	W. H. Knight	338,083	Mar. 16	1619	421	34	1230
Railway. Electric	W. H. Knight	338,174	Mar. 16	1746	457	34	1255
Railway. Electric	W. H. Knight	338,175	Mar. 16	1748	457	34	1256
Railway. Electric	W. M. Schlesinger	339,018	Mar. 30	2945	779	34	1482
Railway. Electric	S. H. Short and J. W. Nesmith	348,476	Aug 31	2845	766	36	1024
Railway. Electric	S. H. Short and J. W Nesmith	348,477	Aug. 31	2848	767	36	1024
Railway. Electric	E. W Siemens	340,462	Apr. 20	1949	500, 501	35	362
Railway. Electric	F. J. Sprague	338,619	Mar. 23	2353	619	34	1371
Railway. Electric	F. J. Sprague	340,684	Apr. 27	2269	598	35	425
Railway. Electric	F. J Sprague	340,685	Apr. 27	2271	598	35	425
Railway. Electric or other	T. P. Chandler, Jr.	346,465	Aug. 3	18	5	36	464
Railway. Electrical	E. E. Ries	352,265	Nov. 9	789	211, 212	37	611
Railway. Electrical	S. H. Short	343,076	June 1	425	109	35	1084
Railway. Elevated	J. P. A. Hanlon	342,088	May 18	1545	413	35	811
Railway. Elevated	H. I. Latimer	354,558	Dec 21	1323	351	37	1261
Railway. Elevated	W. B. Mack	336,247	Feb. 16	1682	438	34	751
Railway. Elevated	W. B. Mack	340,337	Apr. 20	1779	455	35	331
Railway. Elevated	D. Moulton	345,645	July 13	1217	314	36	225
Railway foot-guard	J B. Atwood	353,771	Dec 7	163	45	37	1037
Railway foot-guard	B. M. Soule and P. F. Given	335 847	Feb. 9	1074	284	34	641
Railway-frog	J. J. Billingsley	349,978	Sept. 28	1983	512	36	1441
Railway-frog	E. Campbell	349,783	Sept. 28	1723	445	36	1390
Railway-frog	W P. Dodson	344,087	June 22	1889	484	35	1372
Railway-frog	H. Miller	346,671	Aug. 3	279	77	36	515
Railway-frog	A. J. Moxham	338,181	Mar. 16	1759	459	34	1259
Railway-frog	A. J. Moxham	350,549	Oct. 12	620	173	37	122
Railway-frog	P. Nolan	349,260	Sept. 14	991	253	36	1234
Railway-frog	J. F. Penrod	351,884	Nov 2	221	62	37	499
Railway-frog	T. H. Perry	352,066	Nov 2	486	131	37	559
Railway-frog crossing	P. C. Dunn	348,516	Aug 31	2907	781	36	1035
Railway-gate	J. L. Bickford	345,568	July 13	1101	284	36	203
Railway-gate	E. C. Chope	333,829	Jan. 5	459	125	34	85
Railway-gate	H. Cluever and N. Thelen	347,574	Aug. 17	1539	409	36	765
Railway-gate	D. W. Copeland	353,481	Nov. 30	2461	657, 658	37	951
Railway-gate	A. Erikson	354,403	Dec. 14	1096	294	37	1214
Railway-gate	W. H. Groninger and J. F. Jacobs	344,371	June 29	2286	588, 589	35	1451
Railway-gate	N. Harris	345,896	July 20	1576	407	36	205
Railway-gate	R. A. Hassman	345,429	July 13	882	220	36	164
Railway-gate	W. R. Jacobs and S C. Houston	343,034	June 1	360	93	35	1672
Railway-gate	J. A. Lidback	345,239	July 6	606	153	36	110
Railway-gate	J A. Lidback	349,597	Sept. 21	1449	373, 374	36	1322
Railway-gate	F. Marble, Jr	352,334	Nov. 9	880	237	37	628
Railway-gate	J. H. McDowell, R. W. Hudgins, and J. E. Moore.	345,522	July 13	1007	256	36	187
Railway-gate	J. H. Pollard	337,079	Mar. 2	260	69	34	975
Railway-gate	J. J. Royer	351,128	Oct. 19	1471	385	37	282
Railway-gate	M. Toulmin	352,590	Nov. 16	1201	326	37	698
Railway-gate	C. W. Truslow	341,077	May 4	141	42	35	531
Railway-gate	S. J. Wetmore	349,020	Sept. 14	664	171	36	1172
Railway-gate	E. G. Williams	348,810	Sept. 7	364	98	36	1115
Railway-gate	A. Wyckoff	335,700	Feb. 9	999	264	34	626
Railway-gate. Automatic	J. K. Patterson	334,892	Jan. 26	1948	518, 519	34	382
Railway grip. Cable-	D. D. Anders	351,036	Oct. 19	1348	354	37	259
Railway. Grip-cable	H. M. Lane	344,533	June 29	2511	647	35	1491
Railway gripper. Cable-	G. B. Bryant	334,845	Jan. 26	1890	503, 504	34	372
Railway gripping device. Cable-	W. G. Huey and T. J. Lovegrove	333,633	Jan. 5	177	48	34	35

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Railway-heads, &c. Evener for	R. S. Matteson	352,701	Nov. 16	1360	367, 368	37	727
Railway-joint	J. Kellow	335,458	Feb. 2	514	134	34	533
Railway. Marine	A. Catrari	353,121	Nov. 23	1940	520	37	846
Railway nut-wrench	A. J. Forbes	336,908	Mar. 2	37	10	34	934
Railway or other signal	H. S. Pfeil	349,285	Sept. 14	1017	260	36	1240
Railway. Pleasure cable	L. A. Thompson	348,798	Sept. 7	347	94, 95	36	1112
Railway. Pneumatic and electric	E. F. Edgar	346,902	Aug. 10	580	155, 156	36	580
Railway-point and signal levers. Apparatus for actuating interlocking gear for	H. Johnson	344,482	June 29	2432	625	35	1477
Railway-points, &c. Signal apparatus for	H. Johnson	342,911	June 1	189	48, 49	35	1030
Railway-rail	J. S. Harshman	348,673	Sept. 7	196	52	36	1082
Railway-rail	D. S. Tuthill	350,089	Sept. 28	2134	552	36	1470
Railway-rail chair	M. R. Perkins	344,920	July 6	174	45	36	32
Railway-rail chair	H. H. C. Sintzenich	348,699	Sept. 7	231	61	36	1089
Railway-rail coupling and splicing device	J. Doty	333,842	Jan. 5	474	128	34	88
Railway-rail fastening	H. L. De Zeng	334,696	Jan. 19	1700	454	34	328
Railway-rail fastening	J. Hartman	338,066	Mar. 16	1597	415	34	1226
Railway-rail fastening	P. P. Smith	353,601	Nov. 30	2641	705	37	985
Railway-rail holder	L. K. Jewett	341,916	May 18	1305	349	35	767
Railway-rail joint	T. A. Davies	350,666	Oct. 12	804	219	37	154
Railway-rail joint	J. Flindall	341,412	May 4	617	169	35	617
Railway-rail joint	W. F. Gould	353,675	Dec. 7	32	9	37	1012
Railway-rail joint	C. Wilcox	348,484	Aug. 31	2856	768	36	1026
Railway-rail-joint chair	W. Brown	340,415	Apr. 20	1883	483	35	351
Railway-rail-joint fastening	M. V. B. Ethridge	345,421	July 13	871	217	36	162
Railway-rail splice	C. P. Sharrer	349,958	Sept. 28	1554	505	36	1436
Railway-rails. Fish-plate for	T. A. Davies	350,665	Oct. 12	803	218	37	153
Railway-rails. Manufacturing	W. R. Jones	350,594	Oct. 12	698	189	37	134
Railway-rails to plates. Reducing old	E. B. Stocking	339,118	Mar. 30	3082	816	34	1504
Railway-rails to steel plates. Reducing old steel	B. Lauth	335,938	Feb. 9	1206	321	34	663
Railway safety-gate	J. H. Taylor and Z. T. Miller	338,316	Mar. 23	1939	511	34	1299
Railway safety-switch	J. N. Hubbell	347,805	Aug. 24	1879	501, 502	36	837
Railway-signal	F. P. Abercrombie	349,131	Sept. 14	821	208	36	1201
Railway-signal	J. B. Batt	340,756	Apr. 27	2375	626	35	443
Railway-signal	G. D. Burton	354,460	Dec. 14	1174	314, 315	37	1228
Railway-signal	G. D. Burton	354,827	Dec. 21	1715	454	37	1334
Railway-signal	G. F. Carlile	340,698	Apr. 27	2290	603, 604	35	428
Railway-signal	A. Castro	338,927	Mar. 30	2804	740	34	1458
Railway-signal	S. B. Fyler	348,322	Aug. 31	2628	708	36	982
Railway-signal	J. H. Gibson	351,319	Oct. 19	1726	454	37	328
Railway-signal	W. Hadden	349,040	Sept. 14	690	177	36	1177
Railway-signal	C. M. Havey, R. Black, and T. G. Palmer.	345,782	July 20	1419	367	36	268
Railway-signal	D. C. James	352,412	Nov. 9	976	263	37	648
Railway-signal	C. A. Lamb	335,821	Feb. 9	1037	274	34	633
Railway-signal	W. W. Le Grande	341,666	May 11	969	257	35	694
Railway-signal	H. H. Liemke	346,484	Aug. 3	45	12	36	468
Railway-signal	H. H. Liemke	346,485	Aug. 3	46	12	36	469
Railway-signal	M. W. Long	345,641	July 13	1208	313	36	223
Railway-signal	E. H. Mott	337,855	Mar. 16	1307	339	34	1173
Railway-signal	H. B. Potter	341,602	May 11	876	234	35	676
Railway-signal	C. W. Pridham	352,571	Nov. 16	1175	317	37	693
Railway-signal	J. B. Rathbun and E. A. Burgess	349,954	Sept. 28	1946	503	36	1435
Railway-signal	J. H. Reinhardt	346,946	Aug. 10	641	172	36	592
Railway-signal	N. M. Reynolds	335,243	Feb. 2	225	59	34	480
Railway-signal	E. R. Rosewell and G. H. Conger	343,070	June 1	415	106	35	1082
Railway-signal	W. P. Shaw	341,061	May 4	121	36	35	527
Railway-signal	J. E. Smith and F. A. Ballin	344,207	June 22	2055	526	35	1402
Railway-signal	S. T. Street	354,992	Dec. 28	1946	514	37	1389
Railway-signal	T. R. A. Weber	347,541	Aug. 17	1493	396	36	756
Railway-signal	P. J. Wicks	350,790	Oct. 12	971	260	37	184
Railway-signal	T. D. Williams, G. M. Eitemiller, and J. S. Lucock	353,393	Nov. 30	2328	622, 623	37	926
Railway-signal	C. P. and A. Wilshaw	340,846	Apr. 27	2488	655	35	465
Railway signal apparatus	G. N. Reiff	352,779	Nov. 16	1454	392	37	746
Railway-signal apparatus	H. Roser	341,605	May 11	879	234	35	677
Railway-signal. Automatic	A. M. Amos	344,024	June 22	1792	462	35	1354
Railway-signal. Automatic	M. D. Brown	345,412	July 13	855	213, 214	36	159
Railway-signal. Automatic	E. D. Dougherty	338,720	Mar. 30	2508	664	34	1404
Railway-signal. Automatic	J. J. Hamilton	342,908	June 1	184	47, 48	35	1038
Railway-signal. Automatic	N. B. Holdsworth	354,137	Dec. 14	719	193	37	1144
Railway-signal. Electric	W. Daves	349,927	Sept. 28	1902	493	36	1426
Railway-signal. Electric	B. H. Gedge	344,099	June 22	1903	488	35	1375
Railway-signal. Electric	M. W. Long	345,642	July 13	1211	313	36	224
Railway-signal. Electric	S. C. Mahanay and B. L. Campbell	352,700	Nov. 16	1359	367	37	727
Railway signal-light	H. H. Swan	345,653	July 13	1233	319	36	228
Railway-signal. Revolving	J. K. Tremain	351,347	Oct. 19	1762	463	37	335
Railway-signals. Apparatus for operating	H. Johnson	343,320	June 8	802	202, 203	35	1160
Railway-signals. Automatic circuit-closer for	W. Buck	350,411	Oct. 5	403	115	37	80
Railway-signals. Electric alarm for torpedo	H. F. Clark	341,553	May 11	812	217	35	663
Railway-signals. Operating mechanism for	P. N. Martin	343,329	June 8	824	206, 207	35	1163
Railway-signaling	W. C. Crandell, Jr.	342,499	May 25	2137	565, 566	35	925
Railway signaling apparatus	E. Baumbach	343,751	June 15	1440	359	35	1281
Railway signaling apparatus	F. N. Kelsey	337,269	Mar. 2	516	135	34	1022
Railway signaling apparatus	W. Vogel	347,753	Aug. 17	1804	481	36	814

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Railway-signaling. System of	T. A. Edison and E. T. Gilliland	350,234	Oct. 5	190	55	37	39
Railway-sleeper	E. Schmidt	349,524	Sept. 21	1356	352	36	1314
Railway sleeper and chair	J. Howard and E. T. Bousfield	335,523	Feb. 2	604	157	34	548
Railway sleeper and chair	W. Kilpatrick	344,185	June 22	2024	518	35	1396
Railway sleeper and chair. Combined	J. Smith	341,286	May 4	441	122	35	586
Railway-spike	J. M. Fennerty	345,423	July 13	873	217	36	162
Railway-spike	J. M. Fennerty	354,116	Dec. 14	681	183	37	1139
Railway-spike	H. W. Fowler	345,628	July 13	1186	304	36	219
Railway splice-bar	M. Sellers	339,940	Apr. 13	1205	300	35	221
Railway-stations, &c. Movable platform for	M. C. Carswell	350,232	Oct. 5	188	54	37	39
Railway stop and signal. Automatic mechanical	C. A. Dahl	346,843	Aug. 3	483	134	36	555
Railway structure. Elevated	J. H. Pendleton	342,459	May 25	2075	547, 548	35	915
Railway superstructure and car-truck. Elevated	E. S. Shaw	353,086	Nov. 23	1889	509, 510	37	835
Railway supply-tank	J. Stone	335,851	Feb. 9	1078	285	34	641
Railway-switch	J. W. Adams	348,608	Sept. 7	106	30	36	1067
Railway-switch	G. Bennett, G. Dike, and W. W. Rich.	347,987	Aug. 24	2151	572	36	885
Railway-switch	A. Boyd	335,209	Feb. 2	175	46	34	472
Railway-switch	J. F. Bullard	339,969	Apr. 13	1245	310, 311	35	228
Railway-switch	C. M. Crosby	349,250	Sept. 14	980	250	36	1232
Railway-switch	C. M. Crosby	353,847	Dec. 7	276	73	37	1057
Railway-switch	S. K. Duff and F. S. Wood	342,687	May 25	2398	636	35	974
Railway-switch	M. Miles	345,440	July 13	895	223	36	166
Railway-switch	J. F. Penrod	353,708	Dec. 7	80	22	37	1021
Railway-switch	J. Quinn	344,544	June 29	2528	653	35	1494
Railway-switch	J. T. Rider	336,348	Feb. 16	1821	478	34	777
Railway-switch	E. Samuel	335,484	Feb. 2	552	145	34	540
Railway-switch	R. B. Short	352,579	Nov. 16	1185	321	37	695
Railway-switch	J. B. Suffern	338,649	Mar. 23	2392	630	34	1377
Railway-switch	H. P. Taussig	333,901	Jan. 5	545	148	34	102
Railway-switch	J. W. Vandegrift and F. L. Campbell	346,789	Aug. 3	415	114, 115	36	541
Railway-switch	W. Wharton, Jr	334,916	Jan. 26	1982	528	34	389
Railway-switch	M. Wuerpel and H. P. Taussig	348,089	Aug. 24	2295	615	36	913
Railway-switch alarm	A. Pevey	333,665	Jan. 5	218	60	34	43
Railway switch and signal. Automatic	E. Y. Knapp	339,305	Apr. 6	273	68	35	51
Railway switch and signal interlocking	H. F. Cox	336,702	Feb. 23	2314	606	34	872
Railway switch and signal interlocking apparatus	H. F. Cox	336,701	Feb. 23	2311	605	34	872
Railway switch and signal operating device	G. N. Reiff	352,780	Nov. 16	1456	392	37	746
Railway switch and switch-stand	E. Gordon	348,006	Aug. 24	2175	579	36	890
Railway-switch. Automatic	W. S. Boyd, 3d	347,317	Aug. 17	1171	314	36	698
Railway-switch. Automatic	W. A. Hicks and H. Wilson	339,411	Apr. 6	425	104	35	79
Railway-switch. Automatic	I. W. Newland, W. J. Iredale, and A. H. Newland.	336,058	Feb. 9	1369	361	34	692
Railway switch. Automatic street	M. Dudley	343,366	June 8	886	223	35	1176
Railway-switch chair	H. B. Dye	343,951	June 15	1685	432	35	1329
Railway-switch. Frogless automatic	T. Morgan and J. Baker	343,052	June 1	392	100	35	1077
Railway-switch lock	E. D. Thomas	343,407	June 8	948	237	35	1187
Railway switch operating and locking mechanism	J. A. Bonnell	341,398	May 4	601	164, 165	35	613
Railway switch-stand	T. R. Brown and W. C. Meeker	336,988	Mar. 2	138	38	34	951
Railway switch-stand and switch-connection	T. E. Calvert	353,664	Dec. 7	14	5	37	1009
Railway switch. Street	F. D. Robison	343,398	June 8	936	234	35	1185
Railway-switches. Alarm mechanism for	R. S. Belisle	338,915	Mar. 30	2793	736	34	1455
Railway switches and signals. Mechanism for operating	H. and C. R. Johnson	347,939	Aug. 24	2083	553	36	874
Railway-switches. Automatic safety device for	C. L. Houghton and W. I. Fox	350,198	Oct. 5	139	40, 41	37	29
Railway switches. Electric signal for	B. H. Gedge	344,100	June 22	1906	488	35	1375
Railway-switches. Head-chair for	F. C. Weir	351,234	Oct. 19	1612	423	37	308
Railway-switches. Operating mechanism for	W. B. S. Reed	334,612	Jan. 19	1582	421, 422	34	307
Railway switching device	C. B. Price	335,238	Feb. 2	218	57, 58	34	479
Railway system	H. Wiedling	338,681	Mar. 23	2440	643, 644	34	1385
Railway system. Electric	S. Miller	343,719	June 15	1401	349	35	1273
Railway system. Electric	F. J. Sprague	338,313	Mar. 23	1930	508, 509	34	1297
Railway system. Pendent-car elevated	P. Hale	337,149	Mar. 2	355	92, 93	34	991
Railway-tie	T. A. Davies	344,168	June 22	2002	513	35	1392
Railway-tie	J. De Mott	339,275	Apr. 6	231	58	35	43
Railway-tie	J. Gearon	338,057	Mar. 16	1587	413	34	1223
Railway-tie	E. N. Higley	334,228	Jan. 12	1045	278	34	202
Railway-tie	F. G. Johnson	354,147	Dec. 14	739	197	37	1147
Railway-tie	R. Morrell	354,433	Dec. 14	1131	303	37	1220
Railway-tie	E. F. Reynolds	352,002	Nov. 2	399	108	37	533
Railway-tie	D. G. Ross	346,069	July 20	1813	468	36	338
Railway-tie	F. F. Scott	339,938	Apr. 13	1203	300	35	221
Railway-tie	A. N. Warner and T. J. Deakin	342,987	June 1	291	76	35	1059
Railway tie and chair	A. T. Stevens	351,062	Oct. 19	1305	343	37	251
Railway tie and chair. Combined	I. F. Good	344,826	July 6	34	8	36	8
Railway-tie and fastening for rails. Metallic	H. L. De Zeng	348,550	Sept. 7	12	3	36	1050
Railway-tie and rail-fastening	E. P. J. Freeman	335,805	Feb. 9	1019	269	34	630
Railway-tie and securing guards and rails to the same	E. P. J. Freeman	335,804	Feb. 9	1018	269	34	630
Railway-tie. Metal	E. N. Higley	353,028	Nov. 23	1802	484	37	819
Railway-tie. Metallic	E. C. Davis	351,498	Oct. 26	2023	525	37	388
Railway-tie. Metallic	E. C. Davis	351,499	Oct. 26	2024	525	37	388
Railway-tie. Metallic	C. H. Sayre	344,011	June 22	1774	457	35	1351
Railway tie or sleeper	C. Sailliez	345,733	July 20	1342	349	36	255
Railway tie or support	J. K. Clark	350,478	Oct. 12	534	149	37	106
Railway time-signal	C. Barry	337,229	Mar. 2	463	121	34	1011
Railway time-signal	D. G. Morgan	341,343	May 4	520	143	35	599

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Railway time-signal	W. J. Tripp	351,138	Oct. 19	1484	389	37	284
Railway-track	S. Hyman	345,054	July 6	358	90	36	65
Railway-track	W. S. Meisenheimer	344,539	June 29	2519	650	35	1493
Railway track and car. Elevated	A. Speer	339,494	Apr. 6	547	132	35	101
Railway-track clearer	J. Gray	334,428	Jan. 19	1330	360	34	261
Railway-track crossing	F. J. Hoyt	341,848	May 11	1208	324	35	742
Railway-track drill	A. Loehner	336,487	Feb. 16	2008	526	34	811
Railway-track jack	B. F. Hazelton and P. H. Mack	345,844	July 20	1503	389	36	282
Railway-track key. Automatic	C. W. Whited	336,190	Feb. 16	1582	416	34	735
Railway-track-laying apparatus	G. F. Harris	340,042	Apr. 13	1351	339	35	47
Railway-track. Metallic	D. Kaufman	346,998	Aug. 10	704	186	36	603
Railway-track. Portable	F. Peteler	348,533	Aug. 31	2932	788	36	1040
Railway-track system	P. Noonan	349,447	Sept. 21	1251	324	36	1292
Railway-tracks and the constituents parts thereof. Construction of	H. P. Adams	348,877	Sept. 7	456	120	36	1131
Railway-tracks. Cleaning and lubricating	E. W. McKenna	346,303	July 27	2136	550	36	409
Railway-tracks. Constructing	T. H. Gibbon	347,236	Aug. 10	1047	280	36	665
Railway-tracks. Curve-rail for	T. L. Johnson	348,017	Aug. 24	2189	583	36	893
Railway-tracks. Device for destroying vegetation along	D. Hawksworth	342,091	May 18	1550	414	35	812
Railway-tracks. Grass and weed cutting machine for	W. H. Bartels	337,361	Mar. 9	641	170	34	1051
Railway-tracks. Metal tie for	C. Netter	351,996	Nov. 2	391	106	37	531
Railway tracks. Splice-bar rail-chair for street	A. J. Moxham	334,265	Jan. 12	1110	297	34	214
Railway. Traction rope	J. H. Robertson and J. Jonson	339,322	Apr. 6	296	74 75	35	56
Railway. Traction underground	E. D. Dougherty	341,692	May 18	1273	341	35	761
Railway-train alarm	G. F. Carpenter and A. F. Tucker	354,302	Dec. 14	966	257	37	1189
Railway-train signal	J. A. Miller	341,677	May 11	989	261	35	699
Railway-train signaling apparatus	J. H. Bickford	355,055	Dec. 28	2037	535, 536	37	1405
Railway-trains by electricity. System of lighting	W. A. Stern	346,388	July 27	2259	578, 579	36	432
Railway-trains. Electric lighting of	C. E. Buell	353,349	Nov. 30	2262	605	37	913
Railway-trains. Electric signaling apparatus for	W. F. Ray	338,439	Mar. 23	2115	554	34	1329
Railway-trains. Power-connection for	C. J. Van Depoele	350,221	Oct. 5	177	51	37	36
Railway-trains. Revolving signal for	I. Rickard	337,283	Mar. 2	541	142	34	1026
Railway transfer-table	C. Hathaway	338,407	Mar. 23	2071	543	34	1321
Railway transfer-table	J. N. Kaufholz	351,449	Oct. 26	1946	507	37	373
Railway traveler and switch operator. Electric	C. J. Van Depoele	347,901	Aug. 24	2021	536	36	862
Railway turn-table	D. H. Andrews	333,912	Jan. 5	566	153	34	106
Railway turn-table	J. F. Class	352,970	Nov. 23	1719	461, 462	37	804
Railway. Wagon-	T. Whalen	353,391	Nov. 30	2324	622	37	925
Railways. Automatic alarm signaling and safety device for	E. E. Ries	334,194	Jan. 12	986	265, 266	34	190
Railways. Automatic suspended switching device for electric	C. J. Van Depoele	346,963	Aug. 10	662	176	36	595
Railways. Automatic switch for street	J. Hope, Jr	351,440	Oct. 26	1934	504	37	370
Railways. Automatic switch mechanism for	W. S. Cass	343,699	June 15	1357	338	35	1266
Railways by cables. Operating	J. Stewart	350,168	Oct. 5	98	28, 29	37	21
Railways. Circuit for electric	S. H. Short and J. W. Nesmith	339,942	Apr. 13	1208	301	35	222
Railways. Conductor for electric	R. L. Harris	348,008	Aug. 24	2178	579	36	891
Railways. Conduit for cable	L. B. White	349,868	Sept. 28	1834	474	36	1413
Railways. Conduit for cable or electrical	E. Samuel	354,350	Dec. 14	1034	276, 277	37	1202
Railways. Conduit for electric and cable	E. E. Ries	338,556	Mar. 23	2263	594	34	1355
Railways. Curve-pulley construction for cable	H. M. Lane	352,763	Nov. 16	1436	387	37	742
Railways. Device for turning curves in cable	E. D. Dougherty	348,725	Sept. 7	261	70	36	1096
Railways. Electric motor for	W. H. Knight	354,793	Dec. 21	1668	441	37	1325
Railways. Forging stops for cable	I. Harris	343,271	June 8	724	189	35	1146
Railways. Grip for cable	N. Abbott	345,354	July 13	771	193	36	144
Railways. Grip for cable	H. Casebolt	348,380	Aug. 31	2708	727	36	998
Railways. Grip for cable	H. Casebolt	349,479	Sept. 21	1295	336	36	1302
Railways. Grip for cable	E. D. Dougherty	351,254	Oct. 19	1636	430	37	312
Railways. Grip for cable	E. D. Dougherty	351,901	Nov. 2	241	68	37	503
Railways. Grip for cable	C. A. Harvey	347,597	Aug. 17	1572	417, 418	36	772
Railways. Grip for cable	C. Scholz	353,713	Dec. 7	90	24	37	1022
Railways. Grip for cable	L. B. White	349,867	Sept. 28	1833	474	36	1413
Railways. Grip-slot closer for cable	L. C. Jennings	345,594	July 13	1136	290	36	210
Railways. Gripper for cable	T. O'Connell	351,997	Nov. 2	392	107	37	531
Railways. Gripping device for cable	F. G. Dieterich	351,501	Oct. 26	2027	526, 527	37	388
Railways. Gripping device for cable	A. E. Hovey	347,935	Aug. 24	2074	550, 551	36	872
Railways. Gripping device for cable	C. Leavitt	336,245	Feb. 16	1679	437	34	750
Railways. Gripping device for wire-cable	R. Wetherill	340,405	Apr. 20	1871	481	35	349
Railways. Interlocking switch and signal mechanism for	E. H. Johnston	349,161	Sept. 14	859	220, 221	36	1209
Railways. Link cable for street	S. R. Mathewson	342,803	June 1	40	11	35	1013
Railways. Machine for cleaning ice, &c., from street	J. Remers	349,122	Sept. 14	808	205	36	1198
Railways. Mechanism for actuating the clutch and brake in cable	J. H. Pendleton and C. Tiers	351,124	Oct. 19	1464	383, 384	37	280
Railways. Metallic cross-tie for	R. S. Sea	354,250	Dec. 14	885	234	37	1174
Railways. Metallic cross-tie for street	H. Howard	340,118	Apr. 20	1449	367	35	271
Railways. Molding concrete tubes for cable	J. D. Isaacs	333,755	Jan. 5	358	97	34	67
Railways. Overhead conductor for electric	C. J. Van Depoele	334,062	Jan. 12	787	216	34	154
Railways. Overhead conductor for electric	C. J. Van Depoele	336,453	Feb. 16	1966	515, 516	34	803
Railways. Part of the permanent way of	J. H. and W. Tozer	349,913	Sept. 28	1888	488	36	1424
Railways. Permanent way of	T. Baggesen	342,164	May 18	1636	437	35	829
Railways. Permanent way of	A. C. de Barbaran	351,693	Oct. 26	2305	599	37	441
Railways. Rack-rail for	R. Abt	349,624	Sept. 21	1481	383, 384	36	1339

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Railways. Rail for street	F. V. Greene	341,416	May 4	624	170	35	617
Railways. Road-bed or rail-support for	R. M. Holland	341,575	May 11	846	225	35	670
Railways. Safety appliance for	A. Bernstein and A. Goldstein	346,018	July 20	1750	450	36	326
Railways. Safety-bar for	F. S. Guerber	348,902	Sept. 7	495	131	36	1138
Railways. Safety device for inclined	G. W. Jessop	336,117	Feb. 16	1463	385, 386	34	715
Railways. Slip-rail frog for	I. Burnett and E. Folliott	349,689	Sept. 28	1568	406, 407	36	1363
Railways. Spring-rail frog for	J. E. Clifton	335,341	Feb. 2	361	93	34	506
Railways. Street-conduit for electric and cable	H. T. Clay	338,485	Mar. 23	2177	569	34	1341
Railways. Switch for cable	S. A. Witherspoon	354,295	Dec. 14	959	254	37	1187
Railways. Switch for cable or other conduit	W. Wharton, Jr., and E. Samuel	339,955	Apr. 13	1225	305	35	225
Railways. Switch for electric	W. M. Schlesinger	341,058	May 4	117	35	35	526
Railways. Switch for overhead	J. W. Moyer	352,834	Nov. 16	1530	412	37	759
Railways. Tension apparatus for cable	H. M. Lane	342,367	May 25	1949	515	35	892
Railways. Tie-truss for	S. G. Scott	347,129	Aug. 10	900	240	36	639
Railways. Traction device for cable	J. H. Pendleton	341,501	May 11	733	197, 198	35	649
Railways. Traction device for cable	J. H. Pendleton	350,078	Sept. 28	2118	548, 549	36	1467
Railways. Underground conduit for electric	C. J. Van Depoele	347,905	Aug. 24	2030	537	36	863
Railways, &c. Water-tight bulk-head for underground	J. E. Robinson	354,348	Dec. 14	1033	275	37	1202
Rain-water separator	C. G. Roberts	354,238	Dec. 14	865	229	37	1171
Rake: *See* Hand-rake. Hay-rake. Harvester-rake. Horse-rake.							
Rake	H. Fisher	349,703	Sept. 28	1590	411	36	1367
Rake	H. P. Lander	334,444	Jan. 19	1346	365	34	264
Rake and hoe. Combined	J. S. Seatter	354,355	Dec. 14	1041	278	37	1204
Rake and tedder. Combined	C. McIntire	350,207	Oct. 5	160	47	37	33
Rakes. Making	A. D. Myers	353,803	Dec. 7	211	56	37	1045
Raking, hoeing, shoveling, and pitching. Combined tool for	W. Heston	334,438	Jan. 19	1341	363	34	263
Ram. Hydraulic	A. Baer	337,112	Mar. 2	305	80, 81	34	982
Rammer for street-paving	J. G. Schmidt	350,700	Oct. 12	849	229	37	162
Ramie-machine	E. Lycan	340,514	Apr. 20	2028	520	35	377
Ramie, &c. Machine for preparing	T. E. Schiefner	339,329	Apr. 6	311	78	35	59
Ramie or rhea, nettles, &c. Process of treating	T. E. Schiefner	339,331	Apr. 6	314	.....	35	59
Range	E. C. Frost	353,024	Nov. 23	1797	482	37	818
Range	J. Mander	353,871	Dec. 7	313	81	37	1064
Range-boiler	J. Tucker	352,375	Nov. 9	931	249, 250	37	639
Range-closet door	F. W. and H. Born	354,092	Dec. 14	641	174	37	1132
Range or pressure boiler. Kitchen	J. H. Ash	352,847	Nov. 16	1546	417	37	762
Ranges or stoves. Garbage attachment for	G. Brown	346,891	Aug. 10	560	150	36	576
Ranges. Shaking-grate for	J. H. McIlvain	346,056	July 20	1795	462, 463	36	335
Rasp and file. Combined	J. T. Gallagher	349,490	Sept. 21	1309	341	36	1305
Rat-trap	J. L. Anderson	352,902	Nov. 16	1621	435	37	778
Rat-trap	C. F. A. Kobelke	334,443	Jan. 19	1345	364	34	264
Ratchet-drill	C. L. Breniser	336,470	Feb. 16	1986	520	34	807
Ratchet-drill	J. Magnette	337,599	Mar. 9	980	251	34	1169
Ratchet-drill	M. Rothfuss	352,266	Nov. 9	795	212	37	611
Ratchet-drill	J. M. Sherman	345,547	July 13	1073	274	36	198
Ratchet mining-drill	G. W. Nixon	338,863	Mar. 30	2709	713	34	1441
Ratchet-wrench	J. W. Day	343,628	June 15	1255	315	35	1248
Ratchet-wrench	J. E. Sinclair	349,007	Sept. 14	648	167	36	1170
Rattan-scraping machine	J. M. Devany	355,800	Feb. 9	1012	268	34	629
Rattan. Treating	H. Endemann	343,952	June 15	1686	.....	35	1329
Rattan. Treating and bleaching	H. Endemann	343,896	June 15	1614	.....	35	1315
Rattan. Treating and bleaching	H. Endemann	343,897	June 15	1615	.....	35	1316
Razor	L. Ehrlich	338,167	Mar. 16	1736	453	34	1254
Razor-guard	H. G. Fiske	338,736	Jan. 5	334	91	34	62
Razor-guard	C. F. Nesler	338,864	Mar. 30	2711	713	34	1441
Razor-guard	J. R. Torrey	349,287	Sept. 14	1019	260	36	1240
Razor. Safety-	L. Ehrlich	338,047	Mar. 16	1577	410	34	1222
Razor. Safety-	F. and O. Kampfe	344,114	June 22	1927	493	35	1379
Razor. Safety-	F., O., and R. Kampfe	354,196	Dec. 14	812	216	37	1162
Razor. Safety-	R. Kampfe	341,420	May 4	624	171	35	618
Razor. Safety-	R. Kampfe	344,115	June 22	1929	493	35	1379
Razor. Safety-	A. Partridge. (Reissue)	10,748	July 27	2363	606	36	450
Razor. Safety-guard	T. F. Curley	349,386	Sept. 21	1168	302	36	1277
Razor-sharpener	A. Payne	345,723	July 20	1330	345	36	252
Razor-strop	H. E. Reppenhagen	347,831	Aug. 24	1926	511	36	646
Razor-strop	J. A. Wilson	348,486	Aug. 31	2859	769	36	1026
Razor strop and case. Combined	J. F. Ingham	343,521	June 8	1098	276	35	1213
Razor-strops. Making	J. M. Paulsen	333,663	Jan. 5	216	59	34	42
Reamer	T. R. Almond	351,482	Oct. 26	2003	520	37	384
Reamer	L. Knight	346,111	July 27	1863	481	36	357
Reamer	T. H. Müller	346,214	July 27	2014	520	36	386
Reamer	H. R. Tillison	338,318	Mar. 23	1941	511	34	1299
Reamer	H. R. Tillison	349,766	Sept. 28	1697	438	36	1385
Reamer. Expanding	W. Miller	342,218	May 18	1700	453	35	841
Reamer-relieving machine	F. H. Richards	336,066	Feb. 9	1374	364	34	693
Reamer-relieving machine	F. H. Richards	336,067	Feb. 9	1376	364	34	694
Reamer-relieving machine	F. H. Richards	336,068	Feb. 9	1377	365	34	694
Reaming-tool	E. L. Mansfield	352,829	Nov. 16	1522	410	37	757
Reaper and mower	H. D. Hathaway	354,191	Dec. 14	805	214	37	1160
Reaper-knife sharpener	J. Houghton	343,030	June 1	354	92	35	1071
Reaper-knives. Device for sharpening	J. F. Custard	351,436	Oct. 26	1913	498	37	366
Reapers and harvesters. Self-raking attachment for	M. Dew	337,751	Mar. 9	1162	302	34	1141
Reapers and mowers. Cutter-bar for	G. M. Lease	349,311	Sept. 21	1045	267	36	1254
Reapers and mowers. Finger-bar for	J. L. Highbarger	348,905	Sept. 7	498	132	36	1139

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Reaping and mowing machine	G. Pye	351,400	Oct. 26	1879	489, 490	37	360
Reaping-machine. Self-binding	C. L. Hensley	341,657	May 11	951	251, 252, 253	35	691
Reciprocating chair	M. Keating	354,554	Dec. 21	1317	349	37	1260
Reciprocating engine	W. W. St. John	352,633	Nov. 16	1264	341	37	709
Reclining-chair	J. W. Boggs and D. M. McLauchlan	348,716	Sept. 7	250	67	36	1094
Reclining-chair	L. Davis	337,132	Mar. 2	337	88	34	988
Reclining-chair	J. Hogan	325,815	Feb. 9	1029	272	34	632
Reclining-chair	J. L. May	349,508	Sept. 21	1334	346	36	1310
Reclining-chair	J. A. Newell	352,773	Nov. 16	1447	390	37	744
Reclining-chair	G. K. Phillips	336,662	Feb. 23	2263	590	34	862
Reclining-chair	S. G. Scarritt	337,521	Mar. 9	886	226	34	1091
Reclining-chair	S. G. Scarritt	339,477	Apr. 6	526	128	35	98
Reclining-chair	F. D. Wilt	343,654	June 15	1287	323	35	1254
Reclining-chair. Adjustable	R. O. Hubbard	336,115	Feb. 16	1460	385	34	715
Reclining-chair foot-rest	G. W. Munshower	333,659	Jan. 5	211	57	34	41
Record-board. Coupon-order	J. H. Sutliff	353,008	Nov. 23	1776	478	37	814
Recorder:							
See Car-seat recorder. Speed and time recorder.							
Electric-signal recorder. Steam-engine recorder.							
Time-recorder.							
Electric time-recorder. Watchman's time-recorder.							
Fare-recorder. Weighing-machine recorder.							
Passenger-recorder.							
Recording speech	G. K. Anderson	335,171	Feb. 2	112	29, 30	34	462
Rectum or vagina. Apparatus for cooling or warming the	W. R. Smith	341,177	May 4	288	82	35	557
Reed-board	J. Hessler	335,700	Feb. 9	863	228	34	601
Reed-chamber	C. F. Southack	346,177	July 27	1960	505	36	376
Reel:							
See Belt-reel. Fishing-rod reel.							
Bolting-reel. Flour-bolting reel.							
Carpet-cleaning reel. Fringe-reel.							
Centrifugal reel. Harvester-reel.							
Clothes-line reel. Hose-reel.							
Fence-wire reel. Wire-reel.							
Fishing-reel. Wire-unwinding reel.							
Fishing-line reel. Yarn-reel.							
Reel	J. M. Bannan	336,885	Mar. 2	3	1	34	927
Reel	S. A. Band	351,593	Oct. 26	2169	561	37	416
Reel	G. W. McKinny	353,578	Nov. 30	2601	694	37	978
Reel	A. P. Moses	340,595	Apr. 27	2145	555	35	405
Reel-brushing mechanism	G. T. Smith	335,641	Feb. 9	778	206	34	587
Reel for coiling lead pipe	C. E. Heiss	334,585	Jan. 19	1545	413	34	300
Reeling-machine	W. H. Dunkerley	353,297	Nov. 30	2196	588	37	902
Reeling machine. Silk	E. W. Serrell, Jr	334,619	Jan. 19	1596	425	34	309
Reeling machine. Silk	E. W. Serrell, Jr	334,620	Jan. 19	1597	425, 426	34	309
Reeling machinery. Silk	E. W. Serrell, Jr	334,617	Jan. 19	1591	424	34	308
Reeling machinery. Silk	E. W. Serrell, Jr	334,618	Jan. 19	1593	424, 425	34	308
Reeling machinery. Silk	E. W. Serrell, Jr	334,621	Jan. 19	1598	426	34	309
Reeling mechanism	C. H. Morgan	334,453	Jan. 19	1359	368	34	267
Reflecting view and spyglass	H. F. A. Grimm	348,279	Aug. 31	2570	690	36	969
Reflector	J. E. McLaughlin	334,270	Jan. 12	1116	299	34	215
Reflector	J. S. Adams	354,760	Dec. 21	1629	431	37	1317
Reflector attachment for lanterns	J. Hirth	353,678	Dec. 7	40	11	37	1014
Reflector. Electric-lamp	D. W. Guernsey	334,858	Jan. 26	1911	509	34	375
Reflector-holder	G. A. Sanders	353,163	Nov. 23	2008	538	37	859
Reflector. Street	J. C. Forsberg	343,237	June 8	674	167	35	1137
Refrigerating apparatus. Trap for ammonia	T. J. Goldschmid	346,038	July 20	1775	456	36	330
Refrigerating attachment for beer-kegs	T. Kelpien	347,117	Aug. 10	886	235	36	636
Refrigerating brine, cooling liquids, and making ice. Apparatus for	C. Vose	346,446	July 27	2346	603	36	447
Refrigerating buildings and vessels	A. J. Chase	346,354	July 27	2206	566	36	422
Refrigerating-cars. Door for	C. B. Hutchins	339,186	Apr. 6	99	28	35	20
Refrigerating-machine	A. Conacher	352,041	Nov. 2	451	122, 123	37	543
Refrigerating-machine	J. Schuhle	337,874	Mar. 16	1333	346	34	1178
Refrigerating rooms. Apparatus for	C. C. Hutchinson	348,523	Aug. 31	2915	784	36	1036
Refrigerating-trough	T. Scott and L. Bovard	337,446	Mar. 9	791	202	34	1075
Refrigeration and ice machine	W. H. Wood	346,184	July 27	1970	508	36	378
Refrigeration. Method of and means for	A. J. Chase and C. F. Smith	348,824	Sept. 7	378	103	36	1118
Refrigerator	C. M. Biddle	347,560	Aug. 17	1520	404	36	761
Refrigerator	J. D. Colony	348,109	Aug. 24	2320	622	36	918
Refrigerator	J. W. Egan	348,115	Aug. 24	2328	624	36	919
Refrigerator	E. S. Farson	337,256	Mar. 2	501	130	34	1019
Refrigerator	J. Goodale	337,394	Mar. 9	689	180	34	1059
Refrigerator	A. R. W. Gottschalk	341,472	May 11	702	188	35	642
Refrigerator	F. S. Gwyer	347,293	Aug. 10	1129	302	36	681
Refrigerator	J. M. Harney	349,253	Sept. 14	983	251	36	1233
Refrigerator	B. Hartmann	333,855	Jan. 5	491	133	34	91
Refrigerator	B. L. Herrington	343,536	June 8	1117	282	35	1217
Refrigerator	E. A. Kroenke	349,396	Sept. 21	1181	306	36	1280
Refrigerator	J. Lindle	354,916	Dec. 28	1845	488	37	1370
Refrigerator	J. Linsley	345,240	July 6	607	154	36	110
Refrigerator	F. A. Masters	348,404	Aug. 31	2741	736	36	1004
Refrigerator	M. S. Millard	348,855	Sept. 7	418	113	36	1135
Refrigerator	C. W. Monroe	336,057	Feb. 9	1367	361	34	691
Refrigerator	I. Osgood	343,336	June 8	830	208, 209	35	1164

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Refrigerator	C. C. Palmer	344,006	June 22	1761	454	35	1350
Refrigerator	J. R. Pershall	345,171	July 6	512	131	36	93
Refrigerator	J. Shriver	347,205	Aug. 10	1007	268	36	658
Refrigerator	J. Stephenson	334,736	Jan. 19	1741	465	34	336
Refrigerator	E. D. Stevens	345,607	July 13	1149	294	36	213
Refrigerator	G. S. Van Voorhis	336,501	Feb. 16	2021	530	34	813
Refrigerator	W. A. Walker	343,873	June 15	1585	403, 404	35	1309
Refrigerator	W. H. Waltjen and J. H. Keller	335,327	Feb. 2	337	88	34	502
Refrigerator	J. Weitz and H. Klassert	348,803	Sept. 7	354	96	36	1121
Refrigerator	O. M. Whitman	337,909	Mar. 16	1376	357	34	1187
Refrigerator and table combined	C. Weitz	346,966	Aug. 10	667	178	36	596
Refrigerator attachment for wells	W. R. Dingman	335,686	Feb. 9	837	222	34	597
Refrigerator-boxes. Faucet-inclosing fixture for	C. Scheef	348,783	Sept. 7	332	89	36	1109
Refrigerator-building	T. J. and E. H. Hughes	332,872	Nov. 16	1580	427	37	769
Refrigerator. Butter-dish	T. B. Kavanagh	347,049	Aug. 10	784	209	36	618
Refrigerator-car	A. J. Berg and F. A. Anderson	343,419	May 25	2024	534	35	905
Refrigerator-car	M. Cudahy	342,071	May 18	1519	405	35	806
Refrigerator-car	W. Flanagan	344,039	June 22	1816	466, 467	35	1358
Refrigerator-car	C. Haffcke	348,840	Sept. 7	401	109	36	1122
Refrigerator-car	C. B. Hutchins	339,184	Apr. 6	92	26, 27	35	19
Refrigerator-car	C. B. Hutchins	339,185	Apr. 6	98	27	35	20
Refrigerator-cars. Wall for	C. B. Hutchins	337,770	Mar. 9	1186	309	34	1145
Refrigerator. Detachable milk-can	J. Douglas	346,647	Aug. 3	253	69	36	509
Refrigerator drip-pipes. Trap for	R. Joyce	342,518	May 25	2150	574	35	930
Refrigerator. Earthenware-lined	N. W. Mottinger and A. Halter	348,036	Aug. 24	2213	591	36	897
Refrigerator for outdoors	A. T. Lundqvist	336,056	Feb. 9	1367	361	34	691
Refrigerator-house	D. F. Geralds	353,553	Nov. 30	2574	688	37	973
Refrigerator ice-receptacle	J. Castell	335,425	Feb. 2	472	122	34	526
Refrigerator-safe for bread, &c	H. D. Streater	351,076	Oct. 19	1399	368	37	268
Refrigerator-safe for bread, cake, &c	H. D. Streator	335,157	Feb. 2	81	22	34	455
Refrigerator-shelf	C. H. Leonard and C. G. Gray	335,136	Feb. 2	52	14	34	450
Refrigerator store-house for fruits and vegetables	S. Brown	346,189	July 27	1977	511	36	379
Refrigerator-tank	W. A. H. Bogardus, 2d	346,529	Aug. 3	102	17	36	479
Refrigerator-tanks. Overflow-pipe for	D. W. Riordan	350,944	Oct. 19	1188	315	37	231
Refrigerator. Well-	J. E. Grosjean	337,058	Mar. 2	234	62	34	969
Refrigerator. Well-	J. K. Grube	338,664	Mar. 23	2415	636	34	1381
Refrigerators. Ammonia-evaporator for	V. H. Becker	337,363	Mar. 9	645	171	34	1052
Refrigerators and cars. Heat-insulating wall for	C. B. Hutchins	339,183	Apr. 6	90	26	35	19
Refrigerators, &c. Cooling air in	C. Haffcke	343,369	June 8	891	224	35	1176
Refrigerators. Lining for	J. S. Fairly	340,869	Apr. 27	2523	664	35	470
Refrigerators, refrigerator-buildings, &c. Ice-tank for	J. Castell	348,450	Aug. 31	2810	755	36	1017
Regenerative heating-furnace	H. Ferguson	349,306	Sept. 21	1041	266	36	1253
Register:							
See Barber's register. Barrel-register. Billiard-register. Cab-register. Cash-register. Check or ticket register. Conductor's register. Counting-register. Fare-register. Gas-meter register. Grain-register. Hot-air register. Hot-air-equalizing register. Hotel-register. Telegraph-register. Telephone time-register.							
Register-front	C. G. Dobbs	344,640	June 29	2649	685	35	1519
Registering device	L. L. Sagendorph	342,388	May 25	1978	522	35	897
Registering the power of steam-engines, &c. Apparatus for	W. Ashton	348,147	Aug. 24	2367	635, 636	36	926
Regulator:							
See Arc-light regulator. Blast-regulator. Cut-off regulator. Damper-regulator. Draft-regulator. Electric regulator. Electric-current regulator. Electric-machine regulator. Electro-magnetic regulator. Engine regulator. Feed-regulator. Feed-water regulator. Fluid-pressure regulator. Gas-regulator. Gas-fuel regulator. Gas or water regulator. Gas-pressure regulator. Governor-regulator. Heat-regulator. Lamp-regulator. Light-regulator. Mercurial regulator. Power and speed regulator. Pressure-regulator. Pump-pressure-regulator. Roller-mill feed-regulator. Speed-regulator. Temperature-regulator. Volumetric regulator. Watch-regulator. Windmill-regulator.							
Rein attachment. Check-	C. L. Bard	345,404	July 13	840	210	36	156
Rein attachment. Check-	W. E. James	338,230	Mar. 16	1820	476	34	1269
Rein carrier and blinder-stay. Combined check-	F. Schenkenberg	347,444	Aug. 17	1360	362	36	731
Rein. Check-	F. T. Davis	347,162	Aug. 10	952	254, 255	36	649
Rein. Double driving-	A. J. Hall	339,405	Apr. 6	417	102	35	78
Rein-guard	C. L. Bard	352,674	Nov. 16	1323	356	37	720
Rein-handle	C. K. Barlow	348,581	Mar. 23	2298	602	34	1361
Rein-holder	W. E. Barber	334,067	Jan. 12	795	218	34	156
Rein-holder	A. E. Bussell	341,832	May 11	1185	317	35	737
Rein-holder	T. O. Butler	335,504	Feb. 2	577	151	34	543
Rein-holder	J. M. Cranmer	350,121	Oct. 5	31	9	37	9
Rein-holder	G. M. Frampton	337,760	Mar. 9	1173	306	34	1143
Rein-holder	F. J. Gibbs	351,758	Nov. 2	41	11	37	466
Rein-holder	H. Gooch	349,154	Sept. 14	848	216	36	1207

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Rein-holder	W. H. Hiller	339,887	Apr. 13	1139	283	35	210
Rein-holder	D. McCance	337,414	Mar. 9	724	188	34	1065
Rein-holder	N. McGoldrick	349,733	Sept. 28	1652	426	36	1377
Rein-holder	T. S. Mitchell	335,141	Feb. 2	59	16	34	451
Rein-holder	D. C. Perkins	349,517	Sept. 21	1345	350	36	1312
Rein-holder	F. Root	343,279	June 8	736	183	35	1148
Rein-holder	W. D. Taber	351,221	Oct. 19	1596	419	37	305
Rein-holder	L. S. Tambling	350,400	Oct. 5	391	112	37	78
Rein-holder	W. P. Teed	348,176	Aug. 24	2421	649	36	936
Rein-holder	W. P. Tullock	343,092	June 1	453	115	35	1089
Rein-holder	W. H. White	344,297	June 22	2180	559	35	1424
Rein-holder	E. M. Winfrey and A. G. Branham	340,849	Apr. 27	2491	656	35	465
Rein-holder	J. D. Young	336,462	Feb. 16	1978	518	34	805
Rein-holder	V. Zevely	343,098	June 1	462	118	35	1090
Rein holder. Check-	H. P. Kent	346,109	July 27	1861	488	36	357
Rein holder. Check-	R. E. King	345,062	July 6	372	94	36	68
Rein holder. Check-	J. Lawrie	333,528	Jan. 5	44	13	34	11
Rein-hook	J. Pomerov	335,306	Feb. 2	310	82	34	496
Rein hook. Check-	B. A. Dennis	341,561	May 11	820	219	35	665
Rein hook. Check-	G. B. N. Dow	348,194	Aug. 31	2455	659	36	948
Rein-muff	S. J. Hull	353,861	Dec. 7	296	78	37	1061
Rein-ring	J. C. Hobbs	340,784	Apr. 27	2406	634	35	450
Rein spring. Check-	C. L. Sponenburgh	353,602	Nov. 30	2641	705	37	985
Rein-supporter	J. McFadden	343,480	June 8	1054	262	35	1205
Relay. Polarized	L. J. Phelps	334,185	Jan. 12	968	262	34	187
Releasing device	W. H. Neun	344,674	June 29	2689	698	35	1527
Releasing device	J. F. Vandyke	345,556	July 13	1083	277	36	200
Remedial appliance	G. Kugler	349,849	Sept. 28	1815	469	36	1409
Remedy for excessive perspiration	J. V. Brandan	351,621	Oct. 26	2207	571	37	422
Resawing-machine	I. R. Joslin	340,444	Apr 20	1917	493, 494	35	357
Resawing-machine	G. Tintle	336,500	Feb. 16	2020	530	34	813
Reservoir. Fluid-	O. Intze	348,912	Sept. 7	505	134, 135	36	1140
Reservoir-indicator	S. Fraleigh	354,508	Dec. 14	1247	333	37	1240
Resins. Hardening	A. Kissel. (Reissue)	10,714	Apr. 20	2061	.....	35	383
Respirator	B. W. Gaddis	347,788	Aug. 24	1856	495	36	832
Respirator	D. Genese	346,367	July 27	2225	571	36	426
Rest: *See* Book-rest. Cigar-rest.							
Return-ball	J. A. Groeninger	350,052	Sept. 28	2076	537	36	1459
Reversible chair and table	E. N. Gilfillan and W. W. Krutsch	342,002	May 18	1407	375, 376	35	785
Reversible seat	A. J. Cooke	341,319	May 4	495	134	35	594
Reversing mechanism	J. E. Duncan	352,862	Nov. 16	1563	422	37	766
Reversing mechanism. Automatic	T. M. Kenna	333,525	Jan 5	41	12	34	10
Revolver	J. Boland	353,914	Dec. 7	382	101	37	1076
Revolver	G. W. Cilley	339,149	Apr 6	47	15	35	12
Revolver	G. W. Cilley	350,346	Oct. 5	329	93	37	67
Revolver	G. Envall	352,863	Nov 16	1565	422, 423	37	766
Revolver	G. H. Fox	342,507	May 25	2159	572	35	928
Revolver	H. Goodman	352,185	Nov. 9	688	184	37	592
Revolver	C. W. Hopkins	350,367	Oct. 5	355	102	37	72
Revolver	J. C. Howe	353,948	Dec. 7	431	118	37	1085
Revolver	I. Johnson	339,300	Apr. 6	267	67	35	50
Revolver	I. Johnson, R. T. Torkelson, and A. Fyrberg.	339,301	Apr. 6	269	67	35	50
Revolver	I. Johnson, R. T. Torkelson, and A. Fyrberg.	345,974	July 20	1679	434, 435	36	315
Revolver	H. Schlund	337,201	Mar. 2	424	111	34	1005
Revolver	J. T. Smith	346,327	July 27	2175	558	36	416
Revolver	R. T. Torkelson	339,346	Apr. 6	334	83, 84	35	63
Revolver	R. T. Torkelson	339,347	Apr 6	336	84	35	63
Revolver-extractor	D. L. Tower	355,233	Dec. 28	2300	606	37	1458
Revolver-lock	J. T. Smith	336,021	Feb. 9	1312	348	34	681
Revolvers. Ejecting mechanism for	H. A. Silver and W. Fletcher	341,696	May 11	1017	269	35	705
Revolving chair	C. E. Davis	343,625	June 15	1252	315	35	1248
Revolving or stationary rack or case	J. H. Sherrard	336,166	Feb. 16	1547	408	34	728
Revolving table	W. H. Newton	348,642	Aug. 24	2221	594	36	899
Rhea, &c. Machine for combing	T. E. Schiefner	339,327	Apr 6	306	77	35	58
Rhea, &c. Machine for spinning	T. E. Schiefner	339,328	Apr. 6	309	78	35	59
Rhea or ramie, nettles, &c. Machinery for decorticating	T. E. Schiefner	339,330	Apr 6	313	79	35	59
Rhea, ramie, &c. Boiler for treating	T. E. Schiefner	339,332	Apr. 6	316	79	35	59
Rheostat	F. P. Little and W. H. McDonald	340,449	Apr. 20	1928	495	35	359
Rheostat	R. H. Mather	347,120	Aug. 10	890	236	36	637
Rheostat	E. Weston	340,398	Apr 20	1864	479	35	347
Ribbon-case	J. R. Tucker	352,500	Nov. 9	1083	292	37	669
Ribbon-holder	L. M. Devore	353,627	Nov. 30	2684	718	37	992
Ribbon-holder	F. D. Moore	334,736	Jan. 26	1832	480	34	361
Rice-huller and cuticle-remover	J. S. Moore	333,965	Jan. 5	638	175	34	120
Rice-hulling machine	E. C. Engelberg	341,324	May 4	501	136, 137	35	595
Rifle. Multicharge sporting-	F. Toggenburger	350,328	Oct. 5	306	87	37	62
Ring: *See* Curtain-pole ring. Nose-ring. Ear-ring. Pipe-ring. Finger-ring. Portière-ring. Hog-ring. Rein-ring. Key-ring. Spinning-frame ring. Napkin-ring.							
Ring-gage	J. Harwood	343,582	June 15	1197	301	35	1238
Rings with fibrous strands. Machine for covering	D. Heer	344,273	June 22	2144	550	35	1418

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ripping-tool	J. Ruekstuhl	334,724	Jan. 19	1740	464	34	336
Rivers, harbors, &c. Improving	L. M. Haupt	339,548	Apr. 6	645	156	35	116
Rivet	L. O. Dion	354,971	Dec. 28	1916	506	37	1384
Rivet	E. Flagg	337,142	Mar. 2	348	90	34	990
Rivet	J. L. Hall	353,357	Nov. 30	2277	608	37	916
Rivet	O. G. Holt	340,117	Apr. 20	1448	366	35	271
Rivet	J. L. Thomson	333,700	Jan. 5	278	75	34	53
Rivet-forming die	C. Lovell	340,888	Apr. 27	2546	671	35	474
Rivet-setting and button-fastening machine	C. M. Platt	343,848	June 15	1556	394	35	1303
Riveting-machine	O. J. Brown	351,356	Oct. 26	1780	468, 469	37	344
Riveting-machine	F. M. Jeffery	348,397	Aug. 31	2730	732, 733	36	1002
Riveting-machine	J. Jonson	353,040	Nov. 23	1974	527	37	852
Riveting-machine	O. Pederson	333,780	Jan. 5	387	106	34	73
Riveting-machine	A. Thomson	335,976	Feb. 9	1252	333	34	671
Riveting-tool	J. H. Stevens	349,466	Sept. 21	1277	332	36	1298
Riveting-tool	R. A. Wooding	349,622	Sept. 21	1480	382	36	1339
Riving-machine	G. E. Cooke	335,795	Feb. 9	1004	266	34	627
Riving-machine	I. A. Davis	339,866	Apr. 13	1110	276	35	204
Road-engine	W. Applegarth	352,385	Nov. 9	944	253	37	641
Road-engine	H. H. Bridenthal	351,733	Nov. 2	5	1, 2	37	459
Road-engine	S. E. Worrell	346,974	Aug. 10	677	180	36	598
Road-engines. Axle-joint for	H. Bushnell	352,220	Nov. 9	733	196	37	600
Road-machine	W. W. Lamborn	341,151	May 4	247	73	35	550
Road-making machine. Log-	H. W. Roberts	340,680	Apr. 27	2263	596, 597	35	424
Road-roller. Steam	J. Scheerer	352,574	Nov. 16	1179	318, 319	37	693
Roads. Machine for making, repairing, and cleaning	G. W. Taft	333,572	Jan. 5	97	28	34	21
Roads. Machine for making, repairing, and clearing	G. W. Taft	341,609	May 11	883	235, 236, 237	35	677
Roads. Machine for making, repairing, and cleaning	G. W. Taft	344,690	June 29	2706	703, 704	35	1529
Roads. Safety device for cable	L. Goddu	349,344	Sept. 21	1086	279	36	1262
Roaster: *See* Coffee-roaster. Corn-roaster. Coffee and peanut roaster. Peanut-roaster.							
Roasting and smelting furnace. Combined	E. C. Atkins	341,988	May 18	1392	372	35	782
Robe holder for vehicles. Lap-	F. H. Littlejohn	347,944	Aug. 24	2090	555	36	875
Robe. Lap-	T. Hawley	353,939	Dec. 7	417	112, 113	37	1082
Rock-boring machine	A. Ball	351,566	Oct. 26	2119	548, 549	37	407
Rock-crusher	J. O. Bosworth	342,999	June 1	305	78	35	1062
Rock-crusher	J. B. Low	350,494	Oct. 12	556	155	37	109
Rock crusher and pulverizer	H. J. Dykes	343,268	June 8	718	178, 179	35	1145
Rock-drill	C. O. Barlow	344,892	July 6	138	34	36	25
Rock-drill	H. J. Clark	351,310	Oct. 19	1715	450, 451	37	326
Rock-drill	G. R. Cullingworth	344,477	June 29	2423	624	35	1475
Rock-drill	J. E. Denton	335,900	Feb. 9	1159	308, 309	34	655
Rock-drill	S. Ingersoll	344,906	July 6	156	39, 40	36	28
Rock-drill	J. B. Maas	343,466	June 8	1036	258	35	1202
Rock-drill	F. Manning	337,968	Mar. 16	1469	381	34	1203
Rock-drill	R. G. Marcy	335,373	Feb. 2	403	103	34	514
Rock-drill	E. Moreau	335,469	Feb. 2	527	138	34	536
Rock-drill	E. Moreau	335,470	Feb. 2	528	138	34	536
Rock-drill	E. Moreau	347,438	Aug. 17	1345	357, 358, 359, 360	36	728
Rock-drill	P. Rader	355,278	Dec. 28	2358	620	37	1469
Rock-drill	H. C. Sergeant	349,409	Sept. 21	1196	310	36	1283
Rock-drill	R. Stephens	345,606	July 13	1148	294	36	212
Rock-drill and well-boring machine	W. C. Wells. (Reissue)	10,731	June 1	555	140	35	1108
Rock-drill. Double-acting	H. G. Walker	354,957	Dec. 28	1902	501	37	1381
Rock-drill feed mechanism	G. F. Case	335,891	Feb. 9	1146	305	34	653
Rock-drill foot	J. E. Denton	335,901	Feb. 9	1161	309	34	655
Rock-drill frame. Adjustable	A. Ball	351,564	Oct. 26	2116	548	37	406
Rock-drill. Hand	H. Swain	337,887	Mar. 16	1347	349, 350	34	1181
Rock-drill. Hand-power	W. Brady and D. Fitzpatrick	344,076	June 22	1876	482	35	1369
Rock-drill machine	B. F. Bergh	349,560	Sept. 21	1401	363	36	1322
Rock-drill machine	S. Hussey	339,103	Mar. 30	3064	811	34	1501
Rock-drill machine	A. N. Townsend	344,421	June 29	2355	606	35	1463
Rock-drill. Steam	H. Fischer	336,401	Feb. 16	1894	496	34	791
Rock-drill. Steam	A. J. Sypher	348,175	Aug. 24	2419	648	36	936
Rock-drill support	H. C. Sergeant	337,526	Mar. 9	892	228	34	1092
Rock-drills. Carriage for	C. J. Van Depoele	337,898	Mar. 16	1366	354	34	1184
Rock-drilling machine	S. Ingersoll	344,907	July 6	158	40	36	29
Rock-drilling machine	W. S. Isham	335,358	Feb. 2	383	99	34	510
Rock-drilling machine	J. Jennings	342,605	May 25	2287	605	35	953
Rock. Machine for breaking submerged	H. C. Finch	339,090	Mar. 30	3041	803, 804	34	1497
Rock. Machine for raising phosphate	D. J. Gilchrist	352,311	Nov. 9	851	229, 230	37	623
Rocking and reclining chair	F. Traub	350,329	Oct. 5	308	88	37	63
Rocking-chair	R. G. Clayton	335,428	Feb. 2	475	123	34	526
Rocking-chair	J. and M. Grünwald	342,296	May 18	1827	483	35	862

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Rocking-chair attachment	W. I. Bunker	334,102	Jan. 12	846	232	34	164
Rocking-chair attachment	W. I. Bunker	334,345	Jan. 12	1218	328	34	234
Rocking-chair attachment	W. I. Bunker	334,346	Jan. 12	1219	328	34	234
Rocking-chair attachment	W. I. Bunker	341,448	May 11	665	179, 180	35	635
Rocking-chair attachment	W. I. Bunker	354,038	Dec. 7	562	153	37	1108
Rocking-chair attachment	W. I. Bunker	354,040	Dec. 7	564	153	37	1108
Rocking chair. Base-	J. Flinn	345,678	July 20	1270	329	36	243
Rocking-chair. Exercise	G. W. Dean	337,934	Mar. 16	1416	366	34	1194
Rocking-chair. Reclining	G. W. Coen	338,038	Mar. 16	1567	406	34	1320
Rocking-chair spring	W. I. Bunker	354,039	Dec. 7	564	153	37	1108
Rocking-chair spring attachment	M. D. and T. A. Connolly	354,043	Dec. 7	569	154, 155	37	1109
Rocking-horse	C. Uebele	336,269	Feb. 16	1711	446	34	756
Rocking-seat mechanism for operating churn-dashers, &c.	A. B. Kokernot	346,926	Aug. 10	615	165	36	587
Rod:							
See Fishing-rod. Sucker-rod. Grooved and barbed rod.							
Rod-cutter	I. Fitts	338,396	Mar. 23	2059	540	34	1319
Rod-cutting instrument	C. F. Stackpole	346,178	July 27	1961	505	36	376
Rod. Device for locking ends of a jointed	N. C. Perry and G. S. Gladding	346,605	Aug. 3	197	53	36	498
Rods. Device for cutting	C. F. Stackpole	342,712	May 25	2441	648	35	982
Rods of metal. Machine for cutting and pointing	J. C. Taliaferro	352,961	Nov. 23	1706	458	37	801
Roll. Dandy-	J. R. Ogden	352,484	Nov. 9	1063	286	37	665
Roll-dressing machine	W. M. Ferry	341,468	May 11	698	187	35	641
Roll for revolling old rails	E. D. Wassell	336,272	Feb. 16	1711	447	34	756
Roll-grinding machine	J. Warrington	349,544	Sept. 21	1382	358	36	1319
Roll-top box	J. G. Walker	354,277	Dec. 14	933	246	37	1182
Rolls. Let-off device for delivery-	M. F. Field	345,677	July 20	1269	328	36	241
Roller:							
See Anti-friction roller. Pulverizing-roller. Barrel-roller. Road-roller. Curtain-roller. Shade-roller. Door-roller. Skate-roller. Inking-roller. Skate and caster roller. Land-roller. Spring-roller. Log-roller. Stay-roller. Paper-hanger's roller. Steam-heated roller. Towel-roller. Pill-roller. Window-shade roller.							
Roller and cultivator. Combined	J. Mills	352,928	Nov. 23	1661	446	37	793
Roller and harrow. Combined	A. Ball	339,130	Apr. 6	17	6	35	6
Roller and pulverizer	J. L. Sandelbach	334,984	Jan. 26	2069	552	34	404
Roller and pulverizer. Combined	S. R. Houser	334,703	Jan. 19	1710	456	34	330
Roller and pulverizer. Combined	H. P. White	343,619	June 15	1246	313	35	1247
Roller machine. Proof-taking	A. L. Eastin	352,049	Nov. 2	460	125	37	546
Roller-mill	W. Bauer	344,472	June 29	2417	622	35	1474
Roller-mill	G. W. Combs	342,498	May 25	2136	565	35	925
Roller-mill	E. G. Dewald	344,478	June 29	2424	624	35	1476
Roller-mill	H. J. Gilbert	348,553	Sept. 7	15	4	36	1051
Roller-mill	H. J. Gilbert	348,554	Sept. 7	16	5	36	1051
Roller-mill	E. C. Keyser	334,389	Jan. 12	1264	341	34	242
Roller-mill	F. Lauhoff	333,866	Jan. 5	505	138	34	94
Roller-mill	C. H. Morgan	341,342	May 4	518	143	35	599
Roller-mill	J. T. Obenchain	334,460	Jan. 19	1372	371, 372	34	269
Roller-mill	U. H. Odell	339,927	Apr. 13	1190	296, 297	35	219
Roller-mill	P. J. O'Neil and J. W. Young	342,838	June 1	89	22, 23	35	1022
Roller-mill	J. Walker	347,667	Aug. 17	1692	450, 451	36	793
Roller-mill feed-regulator	D. S. Mackey	348,755	Sept. 7	296	79	36	1102
Roller-mill feed-regulator	W. St. Mielcarek	340,898	Apr. 27	2559	673, 674	35	477
Roller-mill feed-regulator	J. R. Palmer	334,891	Jan. 26	1947	518	34	382
Roller-mill feed-regulator	E. Strong	333,570	Jan. 5	95	27	34	21
Roller-mills, &c. Feed mechanism for	W. M. Rand	339,468	Apr. 6	509	124	35	94
Roller-mills. Feeder for	R. C. Longsdon	339,566	Apr. 6	673	164	35	121
Roller-mills. Feeder for bagasse	A. Haneberg	354,900	Dec. 28	1820	481	37	1366
Roller-mills. Feeding mechanism for	J. Brislin and A. Vinnac	345,953	July 20	1653	426, 427	36	310
Roller-swaging die	G. F. Simonds	352,366	Nov. 9	918	246	37	636
Rolling barbed rods. Roll for	W. H. Perry	333,888	Jan. 5	531	144	34	99
Rolling car-coupling pins. Machine for	J. J. Anderson	350,857	Oct. 12	1072	287	37	203
Rolling girder-rails. Rolls for	A. J. Moxham	340,891	Apr. 27	2549	671	35	475
Rolling I-beams into plates	W. H. Graham	341,569	May 11	836	222	35	668
Rolling I-beams into plates. Rolls for	W. H. Graham	341,570	May 11	837	223	35	668
Rolling I-beams. Machine for	E. B. Meatyard	347,005	Aug. 10	718	190, 191	36	605
Rolling machinery	J. J. Anderson	350,858	Oct. 12	1075	287	37	203
Rolling metal rods. Machine for	J. Reese	338,360	Mar. 23	2001	527	34	1310
Rolling-mill	F. H. Daniels	352,521	Nov. 16	1108	301	37	681
Rolling-mill	S. Duff	354,110	Dec. 14	672	181	37	1137
Rolling-mill	J. Kennedy and H. Aiken	344,383	June 29	2302	593, 594	35	1454
Rolling-mill	J. G. Laurie	343,643	June 15	1276	321	35	1252
Rolling-mill	W. J. Lewis	351,608	Oct. 26	2190	566	37	419
Rolling-mill	E. H. Martin and J. Beavis	349,730	Sept. 28	1649	426	36	1376
Rolling-mill	W. B. Parkes	353,270	Nov. 23	2155	577	37	888
Rolling-mill	J. Pedder	334,044	Jan. 12	760	208, 209	34	150
Rolling-mill attachment. Rod-	A. J. Day	336,703	Feb. 23	2315	606	34	873
Rolling-mill. Continuous	R. Heinle	344,104	June 22	1911	489	35	1376

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Rolling-mill plant	J. Hemphill and W. Garrett	352,750	Nov. 16	1418	383	37	739
Rolling-mill. Three-high	W. E. Harris	353,450	Nov. 30	2417	645, 646	37	943
Rolling mill. Wire-rod	E. S. Lenox	351,836	Nov. 2	145	40, 41	37	485
Rolling mill. Wire-rod	E. S. Lenox	351,837	Nov. 2	148	41, 42	37	486
Rolling mill. Wire-rod	E. S. Lenox	351,840	Nov. 2	155	43	37	487
Rolling mill. Wire-rod	E. S. Lenox	351,841	Nov. 2	158	43 44	37	488
Rolling mill. Wire-rod	C. H. Morgan	334,454	Jan. 19	1362	369	34	267
Rolling mill. Wire-rod	B. Weaver	351,675	Oct. 26	2282	590, 591	37	437
Rolling-mills. Feed-table for	P. F. Hanley and F. M. Richey	352,748	Nov. 16	1415	382	37	738
Rolling-mills. Feeding appliance for	W. R. Jones	340,917	Apr. 27	2580	680	35	481
Rolling-mills. Feeding-table for	R. W. Hunt	348,216	Aug. 31	2488	669	36	954
Rolling-mills. Floor for	W. Row and R. Bauer	346,610	Aug. 3	204	55	36	500
Rolling mills. Overfeed receiver for wire-rod	E. S. Lenox	351,838	Nov. 2	150	42	37	486
Rolling-mills. Roll for	T. Reed and J. Holloway	344,403	June 29	2326	599	35	1458
Rolling-pin	W. O. Taylor	353,177	Nov. 23	2023	542	37	862
Rolling plastic material. Machine for	A. J. Lechler	343,523	June 8	1100	276	35	1213
Rolling rods of metal. Machine for	J. Beavis	353,116	Nov. 23	1934	519	37	845
Rolling spherical and cylindrical articles. Machine for	H. Wyman	350,905	Oct. 12	1140	350	37	215
Rolling spherical and cylindrical articles. Machine for	H. Wyman	350,906	Oct. 12	1141	303	37	216
Rolling toe-rails. Roll for	S. E. Brown	335,268	Feb. 2	260	68	34	487
Rolling tubes. Machine for	S. P. M. Tasker	334,548	Jan. 19	1498	401	34	290
Rolling tubes. Machine for	E. Little	343,325	June 8	814	205	35	1161
Roof	C. C. Gilman	338,515	Mar. 23	2215	581	34	1347
Roof	C. C. Gilman	340,570	Apr. 27	2110	543	35	399
Roof	M. Turley	350,512	Oct. 12	581	161	37	113
Roof, floor, &c. Fire-proof	J. F. Stuckert	349,670	Sept. 21	1536	396	36	1351
Roof. Glazed	T. W. Helliwell	355,079	Dec. 28	2070	544	37	1412
Roof. Mansard	C. C. Gilman	349,584	Sept. 21	1434	370	36	1329
Roof. Portable	C. M. Keeler	349,887	Sept. 28	1860	480	36	1418
Roof, roofing fabric, and mechanism for manufacturing the same.	C. M. Warren	351,948	Nov. 2	318	89	37	517
Roof. Tile	J. C. Litzelle	348,920	Sept. 7	520	137	36	1142
Roofs. Bracket for use in shingling	J. B. Allen and H. W. Tichenor	352,507	Nov. 16	1093	295	37	729
Roofing	D. Harger	348,844	Sept. 7	405	110	36	1122
Roofing	G. W. Waltz	344,228	June 22	2084	533	35	1407
Roofing and paving material	C. M. Warren	345,399	July 13	834	.....	36	155
Roofing. Composite felt	T. New	341,043	May 4	92	26	35	522
Roofing fabric	T. J. Pearce and M. W. Beardsley	348,996	Sept. 14	623	.....	36	1167
Roofing. Felt	O. A. Favel	354,311	Dec. 14	977	260	37	1191
Roofing-felt	F. L. Kane	352,619	Nov. 16	1243	336	37	705
Roofing, furniture, &c. Composition of matter for	A. A. Oliver	334,974	Jan. 26	2058	.....	34	402
Roofing into packages. Machine for forming metallic	B. F. Caldwell	347,991	Aug. 24	2155	573, 574	36	886
Roofing-machine	J. Henning	348,558	Sept. 7	22	6	36	1052
Roofing. Machine for making	E. T. Wray and J. Thomson	351,557	Oct. 26	2103	546	37	404
Roofing. Metal	J. H. Eller	336,098	Feb. 16	1441	380	34	710
Roofing. Metal	F. C. Tegethoff	334,624	Jan. 19	1603	427	34	310
Roofing. Metal	A. W. Walter	345,089	July 6	404	102	36	74
Roofing. Metallic	W. H. Carruthers	341,833	May 11	1186	317	35	738
Roofing. Metallic	A. Nightman	349,966	Sept. 28	1962	507	36	1437
Roofing or staging bracket	H. E. Tolman	351,008	Oct. 19	1312	344	37	253
Roofing. Packing sheet-metal	B. F. Caldwell	350,343	Oct. 5	326	92	37	66
Roofing. Packing sheet-metal	B. F. Caldwell and W. F. Peterson	341,314	May 4	489	132	35	593
Roofing-plate. Metallic	G. Patten	354,484	Dec. 14	1207	323	37	1233
Roofing-plates. Enameling metallic	E. Puttmann and J. Fliegel	336,157	Feb. 16	1534	404	34	726
Roofing-plates for buildings. Machine for making	L. D. Cortright	343,701	June 15	1360	339	35	1266
Roofing-plates. Implement for bending metallic	B. F. Caldwell	341,315	May 4	490	133	35	593
Roofing-retainer	E. D. Owen and H. Lichtenberger	352,424	Nov. 9	993	267	37	651
Roofing ridge and valley	L. D. Cortright	333,603	Jan. 5	141	38	34	28
Roofing-sheets. Machine for preparing	J. M. Whitlatch	341,527	May 11	770	207	35	656
Roofing, siding, and ceiling. Metallic	W. H. Cusack	339,744	Apr. 13	952	234	35	173
Roofing tile-plate. Combination metallic	J. S. Thorn	347,843	Aug. 24	1939	515	36	848
Rope check or lock	G. W. Cook	349,031	Sept. 14	679	175	36	1175
Rope-clamp	A. E. McClure	345,313	July 13	715	180	36	135
Rope-clamp	P. Werum	340,645	Apr. 27	2221	582	35	417
Rope-clasp	F. A. Thomas	351,541	Oct. 26	2084	541	37	401
Rope-cutter	J. R. Gallinger	343,121	June 1	500	127	35	1096
Rope-fastening	F. A. Thomas	346,390	July 27	2263	580	36	433
Rope-holder	S. H. and C. E. Manners	334,878	Jan. 26	1933	515	34	379
Rope-jar	L. Wheeler	335,493	Feb. 2	562	147	34	541
Rope. Metal	T. C. Batchelor	338,913	Mar. 30	2788	735	34	1454
Rope-serving machine	C. R. P. Saunders	333,677	Jan. 5	239	65	34	47
Rope-splice	W. H. Dodge	345,219	July 6	575	147	36	104
Ropes or cables used in transporting loads. Apparatus for supporting and guiding traveling	J. P. Roe and P. R. Bedlington	347,443	Aug. 17	1359	362	36	730
Rose-engine	A. Zemann	334,910	Jan. 12	1020	272	34	197
Rosette	G. Eberhard	352,912	Nov. 23	1639	440	37	790
Rosette-lock	Z. T. Furbish	348,899	Sept. 7	490	130	36	1138
Rotary cutter	F. W. Hewes	343,174	June 8	586	146	35	1122
Rotary cutter	O. L. Noble	337,698	Mar. 9	1101	284	34	1130
Rotary cutters. Blade for	C. E. Phillips	341,940	May 18	1334	356	35	772
Rotary engine	P. Ainsworth	341,395	May 4	596	163, 164	35	613
Rotary engine	R. Auger	338,688	Mar. 30	2460	649	34	1395
Rotary engine	S. Avis	350,408	Oct. 5	400	114	37	80
Rotary engine	A. D. Baker and F. P. Huyck	344,339	June 29	2234	575, 576	35	1441
Rotary engine	P. P. Belt	345,875	July 20	1542	398, 399	36	289
Rotary engine	W. Berrenberg	351,957	Nov. 2	328	91	37	519

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drs.	Official Gazette. Vol.	Official Gazette. Page.
Rotary engine	W. and A. Berrenberg	337,551	Mar. 9	926	237	34	1099
Rotary engine	G. W. Bond	340,975	May 4	7	2	35	506
Rotary engine	J. Brockie and M. W. W. Mackie	355,131	Dec. 28	2148	565	37	1427
Rotary engine	T. P. Coombs	336,896	Mar. 2	19	6	34	930
Rotary engine	J. H. Darragh	343,441	June 8	993	247, 248	35	1194
Rotary engine	J. W. Denmead and R. L. McAllister.	346,029	July 20	1764	454	36	328
Rotary engine	H. B. Dierdorff	350,354	Oct. 5	337	96	37	68
Rotary engine	K. A. Ekman	342,079	May 18	1531	408, 409	35	809
Rotary engine	J. W. Emerson	334,854	Jan. 26	1905	507	34	374
Rotary engine	J. Forsythe	335,120	Feb. 2	28	9	34	446
Rotary engine	H. S. Hopper	352,089	Nov. 2	523	139, 140	37	557
Rotary engine	R. H. Isbell	348,217	Aug. 31	2490	670	36	955
Rotary engine	C. P. Jürgensen	334,235	Jan. 12	1053	280	34	204
Rotary engine	C. P. Jürgensen	341,850	May 11	1210	324	35	742
Rotary engine	R. Rasmussen	338,778	Mar. 30	2600	685	34	1420
Rotary engine	J. J. St. Lawrence	343,396	June 8	636	156	35	1129
Rotary engine	G. E. Toliver, H. W. Poundstone, and E. Schopf.	344,019	June 22	1783	460	35	1353
Rotary engine	W. L. Tuck	339,827	Apr. 13	1056	262	35	193
Rotary engine	W. W. Turner	344,020	June 22	1785	460	35	1353
Rotary engine	G. A. Washburn	351,231	Oct. 19	1608	422	37	307
Rotary engine and blower. Combined	T. Thornton	340,834	Apr. 27	2472	650, 651	35	462
Rotary motor	C. F. H. Hanko	350,196	Oct. 5	137	40	37	29
Rotary sprinkler	I. W. McGaffey	353,955	Dec. 7	442	120	37	1087
Rotary steam-engine	W. K. Austin	348,879	Sept. 7	458	121, 122	36	1132
Rotary steam-engine	L. N. Bégin	342,562	May 25	2221	590	35	941
Rotary steam-engine	L. Chamberlin and A. S. Turnbull	346,531	Aug. 3	105	28	36	480
Rotary steam-engine	J. Forsythe	335,121	Feb. 2	29	9	34	446
Rotary steam-engine	J. Forsythe	335,122	Feb. 2	31	9	34	446
Rotary steam-engine	J. Hills	347,242	Aug. 10	1054	282	36	667
Rotary steam-engine	W. F. Lawrenz	349,108	Sept. 14	792	200	36	1135
Rotary steam-engine	D. G. Wherry	335,001	Jan. 26	2089	558	34	408
Rotary ventilator	E. F. Briggs	338,473	Mar. 23	2157	564	34	1337
Rowing apparatus	W. Ciencoski	334,935	Jan. 26	2002	534	34	393
Rowing apparatus	J. B. Heibecker	355,266	Dec. 28	2343	617	37	1466
Rowlock	H. Finch	338,345	Mar. 23	1979	521	34	1306
Rowlock	E. J. Kerbs	352,329	Nov. 9	673	235	37	627
Rowlock	G. W. Palmer	345,919	July 20	1607	414	36	301
Rubber and textile fabric. Vulcanized	E. M. Freeley	340,501	Apr. 20	2008	.....	35	374
Rubber battery-cells. Manufacture of	J. W. Carter, Jr	341,552	May 11	811	216	35	663
Rubber belting. Apparatus for manufacturing vulcanized-	M. C. Clark	348,659	Sept. 7	175	47	36	1078
Rubber, caoutchouc, &c. Substitute for india-	A. Kissel	350,459	Oct. 5	493	.....	37	95
Rubber cloth. Joining pieces of	T. Hawley	338,068	Mar. 16	1599	416	34	1226
Rubber cloth. Mechanism for joining pieces of	T. Hawley	338,069	Mar. 16	1600	416, 417	34	1226
Rubber-covered hose	A. Spadone	338,312	Mar. 23	1929	508	34	1297
Rubber-dam clamp	O. Carpenter	354,391	Dec. 14	1060	290	37	1211
Rubber-dam clamp	W. S. Elliott	335,747	Feb. 9	932	246	34	615
Rubber-dam clamp	F. Eschauzier	343,117	June 1	495	125	35	1095
Rubber decoy-duck	G. H. Nye	351,709	Oct. 26	2332	604	37	445
Rubber decoy-ducks. Manufacture of	G. H. Nye	349,315	Sept. 21	1049	269	36	1254
Rubber. Hand-	J. W. Williams	349,554	Sept. 21	1394	361	36	1321
Rubber hose. Armor for	J. M. Smith	338,310	Mar. 23	1927	507	34	1297
Rubber or other elastic water-proof material. Sheet formed of india-	E. L. Perry	347,733	Aug. 17	1776	473	36	808
Rubber sound-deadener and packing-band	E. Case	350,477	Oct. 12	533	149	37	106
Rubber step or carpet	F. A. Sawyer	348,782	Sept. 7	341	88, 89	36	1109
Rubber to leather. Mold for vulcanizing	G. F. Butterfield	349,690	Sept. 28	1570	407	36	1361
Rubber. Vulcanizable gilding-	J. H. Wood	343,413	June 8	955	.....	35	1188
Rubbing-machine	C. R. Van Deusen	345,462	July 13	924	232	36	171
Ruby-pin setter and remover	J. V. Zimmerman	347,858	Aug. 24	1958	520	36	852
Ruching for decorative purposes	B. Noyes	336,149	Feb. 16	1524	401, 402	34	725
Rudder attachment	P. C. Roach	339,696	Apr. 13	888	218	35	163
Rudder-brake. Liquid	G. McColl and W. B. Cumming	334,081	Jan. 12	814	223	34	159
Rudder for steering vessels	J. I. Thornycroft	348,070	Aug. 24	2271	608	36	908
Rugs. Frame for making	E. J. Cole	345,029	July 6	332	84	36	61
Rugs, fringe, &c., and material therefor. Making	C. A. Ludlow	336,524	Feb. 16	2055	540	34	819
Rule, calipers, and square. Combined	E. Cliff	335,565	Feb. 9	670	176	34	567
Rule. Pocket-	W. H. Jones	354,865	Dec. 21	1763	466	37	1344
Ruler	F. A. Combes	336,700	Feb. 23	2311	605	34	872
Ruler	W. M. Haworth	350,305	Oct. 5	272	78	37	56
Ruler	W. P. Sisson	352,787	Nov. 16	1467	395	37	748
Ruler and book-holder. Combined	R. F. H. Williams	339,248	Apr. 6	197	50	35	37
Ruler and paper-cutter. Combined	A. R. McDonald	354,800	Dec. 21	1678	443	37	1327
Ruler. Draftsman's section-	F. W. Davenport	351,366	Oct. 26	1796	472	37	347
Ruler for slates	G. W. Bolton and L. Jargensen	334,932	Jan. 26	1998	533	34	392
Ruler. Parallel-	H. N. Stevenson	344,014	June 22	1779	458	35	1352
Ruling and designing apparatus	C. H. Seilern	350,161	Oct. 5	88	25	37	19
Ruling-machine	J. W. Dickieson	340,866	Apr. 27	2519	663	35	470
Ruling-machine	T. W. Wharmby	341,195	May 4	311	86	35	562
Ruling-machine. Engraver's	T. A. Richards	342,464	May 25	2081	549, 550	35	916
Ruling machine. Paper-	J. McAdams	349,167	Sept. 14	867	222	36	1210
Ruling-machine perforating attachment	E. P. Donnell	335,570	Feb. 9	676	178	34	568
Ruling-machines. Receiving-box for	M. L. Metzger and G. W. Brown	346,411	July 27	2292	589, 590	36	438

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ruling machines. Striker attachment for paper	B. Owens	346,063	July 20	1802	465	36	336
Ruling slates	C. R. Stuntz	348,599	Sept. 7	94	.....	36	1064
Rust. Composition for preventing and removing	J. F. Nolan	333 883	Jan. 5	527	.....	34	99
Saccharine and gelatinous liquids, milk, &c. Vacuum-evaporator for	N. B. Rice	347,381	Aug. 17	1267	335 336	36	714
Sad-iron	E. J. Baker	347,148	Aug. 10	933	249	36	645
Sad-iron	G. S. Castagneto	337,555	Mar. 9	929	238	34	1100
Sad-iron	A. F. Chable	354,685	Dec. 21	1519	403	37	1296
Sad-iron	A. De Laski	345,033	July 6	336	85	36	61
Sad-iron	W. A. Dillon	341,322	May 4	499	136	35	595
Sad-iron	O. R. Hanchett	352,975	Nov. 23	1726	463	37	805
Sad-iron	F. A. Lehmann and W. C. Nye	342,615	May 25	2305	609	35	956
Sad-iron	I. G. Pollard	341,942	May 18	1336	357	35	773
Sad-iron	A. Schneider, Jr	345,180	July 6	524	134	36	96
Sad-iron	M. J. Shimer	353,976	Dec. 7	477	129	37	1093
Sad-iron	M. S. Stieglitz	349,263	Sept. 14	995	254	36	1235
Sad-iron	M. Virnoche	339,247	Apr. 6	196	49	35	37
Sad-iron	J. G. Whitlock	338,457	Mar. 23	2139	559	34	1334
Sad-iron	E. O. Wood	341,619	May 11	904	241	35	682
Sad-iron cleaner	M. H. Barnes	350,966	Oct. 19	1222	324	37	237
Sad-iron handle	J. F. Bless	353,660	Dec. 7	10	3	37	1008
Sad-iron heater	J. Ringen	336,591	Feb. 23	2152	563	34	843
Sad-iron mold	P. Lyon, Jr	342,370	May 25	1955	517	35	893
Sad-iron. Self-heating	C. S. Dana and D. Furnall	345,123	July 6	449	116	36	82
Sad-irons. Gas-heating attachment for reversible	H. C. Fox	350,239	Oct. 5	197	56	37	41
Sad-irons. Machine for grinding	J. W. Renshaw and S. H. Perin	338,301	Mar. 23	1918	504 505	34	1295
Saddle-bags and hand-trunk. Convertible	W. S. Marshall	340,339	Apr. 20	1782	456	35	332
Saddle-bar. Safety	H. Rees-Phillips	345,540	July 13	1060	270	36	196
Saddle-fastening	W. S. Lapham	350,255	Oct. 5	213	61	37	44
Saddle. Gig	G. R. Lips	345,853	July 20	1516	393	36	284
Saddle. Gig	M. Schrand	342,848	June 1	101	26	35	1025
Saddle. Harness	P. W. Corcoran	337,047	Mar. 2	222	58	34	966
Saddle. Harness	J. Douglass	339,628	Apr. 13	790	194	35	145
Saddle. Harness	A. Gilliam	344,116	Jan. 12	866	237	34	168
Saddle. Harness	A. Gilliam	355,809	Feb. 9	1023	270	34	631
Saddle. Harness	J. Hess	346,750	Aug. 3	372	100	36	533
Saddle. Harness	W. V. Kay	342,104	May 18	1568	418	35	815
Saddle. Harness	F. C. Kimball	345,237	July 6	604	153	36	109
Saddle. Harness	A. L. Liston	353,690	Dec. 7	51	14	37	1016
Saddle. Harness	A. Ortmayer	335,142	Feb. 2	60	16, 17	34	451
Saddle. Harness	G. Rank	351,282	Oct. 19	1674	439	37	319
Saddle. Harness	E. F. Sturges	341,961	May 18	1357	363	35	777
Saddle. Harness	J. Thomas	335,161	Feb. 2	89	24	34	456
Saddle. Harness	W. S. Webster	337,217	Mar. 2	444	116	34	1008
Saddle. Harness	M. E. Zeller	337,645	Mar. 9	1036	266	34	1119
Saddle-pad	A. Müller	351,706	Oct. 26	2320	603	37	444
Saddle pad. Harness	J. Shaffer	351,212	Oct. 19	1584	415	37	303
Saddle. Riding	J. F. Bennett	355,123	Dec. 28	2136	561	37	1425
Saddle. Riding	F. A. Hake	344,828	July 6	36	9	36	8
Saddle. Riding	A. C. Lambeth	342,111	May 18	1574	420	35	817
Saddle. Riding	J. G. Lentz	353,454	Nov. 30	2454	647	37	944
Saddle. Riding	J. W. Newman	335,474	Feb. 2	532	139	34	537
Saddle. Riding	J. W. Newman	340,892	Apr. 27	2550	672	35	475
Saddle. Riding	F. Shock	338,195	Mar. 16	1777	463	34	1262
Saddle-tree	S. E. Tompkins	354,951	Dec. 28	1894	499	37	1380
Saddle-tree	W. S. Webster	347,672	Aug. 17	1696	452	36	794
Saddle tree. Riding	J. M. Hays	354,135	Dec. 14	715	192	37	1144
Saddles. Pad for harness	C. A. Sisson	343,612	June 15	1236	310	35	1245
Safe	H. Gross	342,003	May 18	1409	376	35	785
Safe	D. O. Paige	350,764	Oct. 12	933	251	37	177
Safe and sieve. Combined flour	F. A. Hovey	345,139	July 6	474	120	36	86
Safe bolt-work. Automatic	T. M. Brintnall	354,681	Dec. 21	1513	401 402	37	1295
Safe. Burglar-proof	H. Gross	342,004	May 18	1410	376	35	785
Safe. Burglar-proof	J. W. Norris and T. M. Brintnall	350,266	Oct. 5	226	66	37	47
Safe for express transportation, &c	J. Farrel	346,275	July 27	2100	541	36	402
Safe. Kitchen	H. D. Hardenbergh	335,921	Feb. 9	1184	315	34	660
Safe. Kitchen	A. M. Herman	345,784	July 20	1421	368	36	268
Safe-lock	E. H. Flint	338,505	Mar. 23	2204	578 579	34	1345
Safe-lock and bolt-moving mechanism. Electric	F. Sedgwick	347,071	Aug. 10	829	220 221	36	626
Safe. Parlor fire-proof	J. Peterson	343,395	June 8	932	233	35	1183
Safe. Sectional kitchen	W. C. Campbell	335,014	Jan. 26	2112	562	34	411
Safes and vaults. Apparatus for protecting	J. Fleckinger	350,823	Oct. 12	1026	274	37	194
Safes and vaults. Lock mechanism for	H. Gross	342,005	May 18	1412	377	35	786
Safes. Lock-spindle for	J. Dyer	341,563	May 11	822	219	35	645
Safes, vaults, and chambers. Fireproofing for	H. C. Johnson	343,637	June 15	1266	319	35	1250
Safety attachment	J. H. Barnes	334,926	Jan. 26	1993	531	34	391
Safety automatic brake	F. E. Kinsman	345,100	July 20	1294	335	36	246
Safety collecting-box	O. Nielsen	338,354	Mar. 23	1992	524 525	34	1308
Safety-gate	W. Hanley	345,587	July 13	1127	288	36	208
Safety-hook	C. E. Carr	342,730	May 25	2469	654	35	987
Safety-hook	E. H. Smith	348,791	Sept. 7	340	91	36	1111
Safety-pin	J. Battis	350,799	Oct. 12	993	266	37	187
Safety-pin	D. L. Durand	352,681	Nov. 16	1334	360	37	722
Safety-pin	A. M. Freeman	354,830	Dec. 21	1719	455	37	1335
Safety-pin	W. F. Hyatt	335,284	Feb. 2	280	74	34	490
Safety-pin	J. Jenkins	345,848	July 20	1509	391	36	283
Safety-pin	G. W. McGill	343,919	June 15	1643	421	35	1321
Safety-pin	G. W. McGill	344,189	June 22	2033	519	35	1398
Safety-pin	H. F. Neuss	334,541	Jan. 19	1489	399	34	289

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Invention.	Name.	No.	Date	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Safety-switch	R. Adamson	338,012	Mar. 16	1533	398	34	1214
Safety-tank and automatic filler	B. S. Koll	339,106	Mar. 30	3068	812	34	1502
Sail-fastening device	G. E. Ludden	340,888	Apr. 27	2137	552	35	404
Salol. Production of	M. V. Nencki and R. Seifert	350,012	Sept. 28	2029	.....	36	1449
Salt-drier	J. A. Cook	337,560	Mar. 9	936	239	34	1101
Salt-grainer	T. Craney	344,632	June 29	2641	683	35	1517
Salt-grainer	T. Craney	344,633	June 29	2642	683	35	1517
Salt-graining apparatus	J. M. Duncan	349,931	Sept. 28	1907	494 / 495	36	1427
Salt-making apparatus	T. Craney	344,634	June 29	2643	683	35	1518
Salt. Manufacture of	H. Williams, J. L. and L. R. Alberger	351,082	Oct. 19	1408	369 / 370	37	269
Salt or condiment. Compound table-	J. M. Hughes	352,465	Nov. 9	1044	.....	37	661
Salt to stock. Device for supplying	J. Gushart	349,843	Sept. 28	1866	466	36	1407
Salt to stock. Device for supplying	G. Milliken	338,761	Mar. 30	2575	679	34	1416
Salts. Making fluorine	R. Grätzel	338,061	Mar. 16	1591	.....	34	1224
Salts. Manufacture of naphthol-carbonic alkaline	R. Schmitt and C. Kolbe	350,468	Oct. 5	520	.....	37	98
Salve	A. Meyer	334,028	Jan. 12	737	.....	34	145
Sample box or package	J. A. Pegg	337,755	Mar. 9	1266	313	34	1148
Sand and gravel separator	S. Friend	348,666	Sept. 7	184	49	36	1080
Sand and water feeding mechanism	A. Landon	345,976	July 20	1664	435	36	315
Sand-band	J. Cavanagh	351,162	Oct. 19	1516	397	37	290
Sand-band	W. M. Farr	346,274	July 27	2099	540	36	402
Sand-paper cylinder	J. L. Perry	346,680	Aug. 3	289	79	36	517
Sandpapering and polishing machine	T. B. Marshall	350,689	Oct. 12	839	226	37	159
Sandpapering-machine	D. Doncaster	355,066	Dec. 28	2052	539	37	1408
Sandpapering-machine	C. Roehr	342,932	June 1	223	57	35	1046
Sandpapering-machine	E. Totman	348,177	Aug. 24	2422	649	36	936
Sanitary apparatus	J. R. Bryden	347,568	Aug. 17	1531	407	36	763
Sap-pails. Device for supporting and protecting	C. O. Freer	349,789	Sept. 28	1739	446	36	1391
Sash and door bolt	F. C. Robinson	334,545	Jan. 19	1493	400	34	289
Sash and frame. Window	W. E. Michael	333,654	Jan. 5	204	56	34	40
Sash-balance	C. H. Ames and M. Harris	338,817	Mar. 30	2649	698	34	1429
Sash-balance	H. R. Bridges	333,992	Jan. 12	680	186	34	135
Sash-balance	R. Clarke	341,731	May 11	1057	280	35	712
Sash-balance	J. H. Corsbie	349,922	Sept. 28	1897	491	36	1425
Sash-balance	A. F. Johnson	334,868	Jan. 26	1922	511	34	377
Sash-balance	A. Lang and T. W. Talbot	352,415	Nov. 9	979	263	37	649
Sash-balance	W. F. Lennon	346,663	Aug. 3	270	74	36	513
Sash-balance	J. McArthur	354,162	Dec. 14	755	203	37	1151
Sash-balance	J. I. McCarthy	343,190	June 8	606	150	35	1126
Sash-balance	W. S. Pattin	350,695	Oct. 12	843	227	37	160
Sash-balance	J. A. Rogers	348,500	Aug. 31	2481	775	36	1030
Sash-balance	W. J. Thompson	347,396	Aug. 17	1286	342	36	718
Sash-balance	S. J. Vance	346,567	Aug. 3	147	40	36	489
Sash-balance	J. Weathers	334,628	Jan. 19	1607	428	34	311
Sash-balance	T. G. Williams	353,241	Nov. 23	2110	565	37	879
Sash balance and fastener. Combined	G. J. Thomas	337,536	Mar. 9	905	231	34	1093
Sash-balances. Spring-roller for	A. E. Coles	344,626	June 29	2631	681	35	1516
Sash-balancing device	A. Keyser	346,110	July 27	1862	481	36	357
Sash center or pivot	J. Capron	350,659	Oct. 12	796	216	37	152
Sash-cord fastener	O. Beebe	348,101	Aug. 24	2312	619	36	916
Sash-cord fastener	O. Beebe	354,620	Dec. 21	1426	378	37	1279
Sash-cord fastener	E. T. Bradbury	345,878	July 20	1545	399	36	289
Sash-cord fastener	T. Morton	341,476	May 11	737	195	35	647
Sash-cord fastener	S. E. Nies	344,748	June 29	2788	721	35	1543
Sash-cord fastener	A. Oberndorfer	333,775	Jan. 5	381	104	34	72
Sash-cord guide	F. V. Phillips	347,507	Aug. 17	1443	383	36	747
Sash-cord guide	F. V. Phillips	347,508	Aug. 17	1444	384	36	747
Sash-cord guide	F. V. Phillips	347,509	Aug. 17	1446	384	36	747
Sash-fastener	E. H. Alvord	349,295	Sept. 21	1028	263	36	1251
Sash-fastener	J. Y. Bassell	334,685	Jan. 19	1685	450	34	325
Sash-fastener	H. A. Bennett	346,142	July 27	1916	495	36	367
Sash-fastener	M. Bourke	344,436	June 29	2372	610	35	1467
Sash-fastener	F. F. Browne	345,273	July 13	659	168	36	125
Sash-fastener	A. Cary	341,638	May 11	938	248	35	687
Sash-fastener	F. M. Case	351,575	Oct. 26	2141	554	37	410
Sash-fastener	G. N. Clemson	343,756	June 15	1446	361	35	1282
Sash-fastener	M. E. Cole	345,483	July 13	953	240	36	177
Sash-fastener	E. S. Cory	341,557	May 11	816	218	35	664
Sash-fastener	C. J. Edwards	346,096	July 27	1846	476	36	354
Sash-fastener	E. R. Ferry	336,100	Feb. 16	1445	381	34	712
Sash-fastener	R. Gibbon	338,837	Mar. 30	2678	705	34	1434
Sash-fastener	R. M. Hutchinson	352,189	Nov. 9	693	185	37	593
Sash-fastener	H. B. Ives	352,617	Nov. 16	1240	336	37	705
Sash-fastener	H. R. Jackson	349,431	Sept. 21	1227	318	36	1298
Sash-fastener	R. Kemper	340,325	Apr. 20	1767	451	35	328
Sash-fastener	A. Y. Leake	354,914	Dec. 28	1843	487	37	1370
Sash-fastener	M. O. Lane	341,152	May 4	249	73, 74	35	550
Sash-fastener	F. D. Livingstone	338,534	Mar. 23	2235	587	34	1351
Sash-fastener	A. L. Long and W. S. Barager	348,631	Sept. 7	138	39	36	1072
Sash-fastener	M. Maser	346,488	Aug. 3	49	13	36	469
Sash-fastener	A. D. McCall	336,932	Mar. 2	67	18	34	939
Sash-fastener	J. F. Porter	338,548	Mar. 23	2251	591	34	1353
Sash-fastener	H. Powell	348,342	Aug. 31	2652	715	36	987
Sash-fastener	E. D. Rockwell	352,099	Nov. 2	537	143	37	559
Sash-fastener	A. M. Rosco	339,324	Apr. 6	302	76	35	57
Sash-fastener	F. L. Rosentreter	334,899	Jan. 26	1960	521	34	384
Sash-fastener	F. L. Rosentreter	352,355	Nov. 9	907	243	37	634
Sash-fastener	J. J. Saltzer	346,777	Aug. 3	403	111	36	539
Sash-fastener	G. F. Shaw	343,256	June 8	704	175	35	1143
Sash-fastener	C. Witzel	335,409	Feb. 2	453	117	34	522
Sash fastener. Window-	C. D. Hayward	335,137	Feb. 2	41	11	34	448
Sash-fastening device	C. M. Burgess	338,337	Mar. 23	1965	517	34	1303

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sash-fastening device	J. M. Burkert	337,369	Mar. 9	652	172	34	1053
Sash-holder	S. Benton	348,103	Aug. 24	2313	620	36	916
Sash-holder	M. Bourke	345,665	July 20	1251	324	36	238
Sash-holder	E. M. Chumard	353,287	Nov. 30	2178	584	37	899
Sash-holder	M. A. Cutter	334,692	Jan. 19	1695	453	34	327
Sash-holder	A. Diffenderfer and J. Zerby	343,570	June 15	1182	297	35	1235
Sash-holder	J. Eakins	346,363	July 27	2221	569 / 570	36	425
Sash-holder	J. H. Felmlee	335,024	Jan. 26	2127	566	34	414
Sash-holder	J. H. Felmlee	348,273	Aug. 31	2564	689	36	969
Sash-holder	M. C. Hargrave	345,050	July 6	354	89	36	64
Sash-holder	J. P. Hendrick	354,550	Dec. 21	1311	348	37	1259
Sash-holder	F. H. Jury	343,997	June 22	1752	451	35	1348
Sash-holder	E. W. Morris	337,695	Mar. 9	1098	283	34	1139
Sash-holder	J. H. Newbory	335,711	Feb. 9	881	231	34	604
Sash-holder	J. E. Toft	350,511	Oct. 12	580	161	37	113
Sash-holder	M. C. Tully	353,239	Nov. 23	2109	564	37	879
Sash-holder	W. M. Valentine	348,431	Aug. 31	2780	747	36	1012
Sash-holder	J. H. Whitlock	335,262	Feb. 2	251	66	34	485
Sash holder. Window-	H. W. R. Strong	352,719	Nov. 16	1384	374 / 375	37	732
Sash-lift	A. Wiggers	337,038	Mar. 2	211	56	34	964
Sash-lock	J. Brady	345,480	July 13	949	239	36	176
Sash-lock	E. R. Ferry	347,101	Aug. 10	868	230	36	632
Sash-lock	J. R. Hussey	350,678	Oct. 12	821	232	37	156
Sash-lock	J. G. Leslie	350,460	Oct. 5	494	138	37	95
Sash-lock	T. A. L. Moore	348,334	Aug. 31	2640	712	36	985
Sash-lock	C. E. Nicholas	350,694	Oct. 12	842	227	37	160
Sash-lock	H. F. Price	353,375	Nov. 30	2301	614	37	921
Sash-lock	P. Seiler	348,696	Sept. 7	229	60	36	1089
Sash lock and holder	E. P. Gilman	345,779	July 20	1415	366	36	267
Sash lock. Window-	J. Geiser	343,580	June 15	1195	300	35	1237
Sash-rattling device. Anti-	G. E. Gorham	340,945	Apr. 27	2621	690	35	488
Sash-supporter	F. Tankersly	346,516	Aug. 3	86	23	36	477
Sash-weight	W. H. Carter and J. W. Magill	342,181	May 18	1653	442	35	831
Sash. Window-	P. J. Brennan	338,474	Mar. 23	2159	564	34	1338
Sash. Window-	W. W. Richards	351,797	Nov. 2	95	26	37	475
Sash. Window-	L. Robertson	340,738	Apr. 27	2344	617	35	438
Sashes and screens. Holding-spring for	H. E. Willer	346,524	Aug. 3	97	26	36	478
Sashes. Device for hanging window-	E. and A. A. Garrand	339,759	Apr. 13	973	240	35	177
Sashes. Device for operating	E. W. Paine	345,857	July 20	1521	394	36	285
Sashes into revolving sashes or fan-lights, &c. Converting window-	R. Adams	351,146	Oct. 19	1497	392	37	286
Sashes. Pivotal support for	L. Pfingst	351,936	Nov. 2	305	85	37	513
Satchel and pocket-book frames. Fastening for	A. Goertz	352,687	Nov. 16	1343	363	37	724
Satchel-frames, &c. Fastening for	L. B. Prahar	342,974	June 1	279	72	35	1057
Satchel-holder	M. Smith	337,709	Mar. 9	1114	287	34	1132
Satchel or hand-bag	J. P. Onderdonk	340,001	Apr. 13	1294	324	35	237
Satchel-strap	J. A. Yarger	353,526	Nov. 30	2528	674	37	963
Satchels and pocket-books. Clasp for	O. A. Lehman	338,351	Mar. 23	1987	523	34	1307
Satchels, &c. Fastening for	G. W. Legg	351,183	Oct. 19	1550	407	37	297
Satchels. Handle-fastening for hand-	L. B. Prahar	342,973	June 1	278	72	35	1057
Saucepan	J. Ringen. (Reissue)	10,718	May 4	650	176	35	624
Saucepan and cover	G. A. Bradford	334,560	Jan. 19	1516	406	34	293
Sausage-stuffer	M. Siereveld and G. H. Stallman	343,077	June 1	427	110	35	1084
Saw	A. Bertram	336,380	Feb. 16	1862	488	34	785
Saw	G. N. Clemson	334,567	Jan. 19	1523	407	34	295
Saw	G. N. Clemson	336,697	Feb. 23	2309	604	34	871
Saw	G. N. Clemson	349,143	Sept. 14	836	213	36	1204
Saw	C. W. Greist	352,867	Nov. 16	1574	425	37	768
Saw	A. B. Ireland	334,440	Jan. 19	1342	364	34	263
Saw	J. R. Little and C. T. Stoddard	354,325	Dec. 14	998	265	37	1195
Saw	T. O. Loughlin	352,624	Nov. 16	1254	338	37	707
Saw	J. J. Parker	336,739	Feb. 23	2358	617	34	881
Saw	W. J. Perkins	342,535	May 25	2189	579	35	934
Saw	R. E. Poindexter	355,205	Dec. 28	2254	595	37	1449
Saw	D. R. Proctor	347,008	Aug. 10	723	192	36	606
Saw	F. H. Richards	352,004	Nov. 2	401	109	37	533
Saw and lathe. Combined scroll-	F. J. Bruckner	336,208	Feb. 16	1621	423	34	741
Saw and other similar blanks. Machine for cutting teeth upon	J. A. Dicus	341,461	May 11	691	185	35	640
Saw. Band-	E. C. Atkins	339,728	Apr. 13	933	228	35	170
Saw. Band-	E. C. Atkins	341,989	May 18	1394	372	35	783
Saw. Band-	D. Simonds	346,565	Aug. 3	145	40	36	488
Saw-bits. Die for grinding	N. W. Spaulding	351,666	Oct. 26	2270	588	37	434
Saw-buck	H. Palmer	333,777	Jan. 5	383	105	34	73
Saw. Chain-	B. F. Asper	349,833	Sept. 28	1792	463	36	1404
Saw. Crosscut-	J. J. Parker	335,087	Jan. 26	2221	590	34	431
Saw. Drag-	J. P. Cyphers	349,876	Sept. 28	1845	477	36	1415
Saw. Drag	M. M. Driskell	337,754	Mar. 9	1166	304	34	1142
Saw. Drag-	E. H. Griswold	348,737	Sept. 7	275	74	36	1098
Saw. Drag-	W. W. Smith	349,819	Sept. 28	1772	458	36	1400
Saw. Drag-	F. H. Taylor	342,234	May 18	1723	458	35	844
Saw. Drag-	I. B. Warren and C. M. Potter	338,005	Mar. 16	1525	395	34	1212
Saw. Drag-	C. W. Wright	353,109	Nov. 23	1927	517	37	843
Saw. Drag-	W. H. Yagel	343,096	June 1	460	117	35	1090
Saw dresser. Circular-	H. D. Wolcott	343,785	June 15	1477	370 / 371	35	1288
Saw-filing implement	P. A. Potter	352,352	Nov. 9	905	242	37	633
Saw-filing machine	J. W. Gibson and C. C. Harris	346,541	Aug. 3	116	31	36	483
Saw-filing machine	S. C. Rogers	338,787	Mar. 30	2608	687	34	1491
Saw. Fire-wood drag-	B. F. Shinn	352,269	Nov. 9	799	214	37	612
Saw. Fire-wood drag-	A. S. Topping	346,179	July 27	1962	506	36	376
Saw-frame	A. M. Barber	342,560	May 25	2219	590	35	941

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Saw-frame	H. L. Pratt	345,256	July 6	631	160	36	114
Saw frame. Buck-	W. Hankin, Sr.	337,396	Mar. 9	695	181	34	1060
Saw-gage	O. E. Williams and J. R. Brewster.	353,243	Nov. 23	2111	565	37	879
Saw-gage	W. H. Wilson	344,469	June 29	2413	621	35	1473
Saw-guard	J. F. Monaghan	347,884	Aug. 24	2001	531	36	858
Saw-guard. Knob	A. Touchette	344,292	June 22	2175	557	35	1423
Saw-guide	J. F. East	344,175	June 22	2009	515	35	1393
Saw-guide	W. F. Parish	342,876	June 1	143	36	35	1032
Saw-guide	J. A. Robb	341,055	May 4	114	34	35	525
Saw-guide	S. S. Vail	351,672	Oct. 26	2278	589	37	436
Saw guide. Band-	W. Kratzer	334,175	Jan. 12	954	259	34	184
Saw guide. Band-	S. Stephens and D. B. Hanson	334,818	Jan. 26	1859	495	34	366
Saw-gummer	S. R. Mathewson	345,388	July 13	813	205	36	152
Saw-gummer	A. B. Stevenson and J. Stuempges	357,532	Mar. 9	901	229	34	1094
Saw gummer. Gin-	S. A. Maxwell	352,550	Nov. 16	1146	310	37	687
Saw. Hand-	M. Barrick	344,234	June 22	2091	534	35	1408
Saw. Hand-	W. H. Fritts	350,193	Oct. 5	134	39	37	28
Saw. Hand-	J. P. Lauer	346,482	Aug. 3	43	11	36	468
Saw. Hand-	C. Richardson	343,254	June 8	702	174	35	1143
Saw. Hand-	T. Van Ostrand	350,403	Oct. 5	393	113	37	79
Saw-handle	R. E. Poindexter	345,648	July 13	1219	315	36	225
Saw-handle	G. E. Siebler	352,937	Nov. 23	1674	449	37	796
Saw-handle	B. H. Ten Eyck	341,703	May 11	1024	271	35	706
Saw-hanging	T. W. Peck	336,661	Feb. 23	2261	589, 590	34	861
Saw-jointing device	J. W. Edmonson	352,050	Nov. 2	462	125	37	546
Saw machine. Band-	D. K. Allington	337,912	Mar. 16	1379	358, 359	34	1187
Saw-making machine	S. E. Mower and T. Fowler	337,977	Mar. 16	1484	385	34	1205
Saw-mill	L. O. Orton	346,383	July 27	2251	576	36	430
Saw-mill attachment	H. W. Roberts	350,842	Oct. 12	1055	282	37	199
Saw mill. Band-	D. K. Allington	337,647	Mar. 9	1037	266	34	1119
Saw mill. Band-	D. K. Allington	337,913	Mar. 16	1381	359	34	1188
Saw mill. Band-	E. C. Atkins	342,416	May 25	2018	532	35	904
Saw mill. Band-	H. R. Barnhurst	338,017	Mar. 16	1538	399	34	1215
Saw mil. Band-	E. Benjamin	334,735	Jan. 26	1757	468	34	346
Saw mill. Band-	W. M. Dickerson	340,990	May 4	27	8	35	510
Saw mill. Band-	W. H. Dodge	353,669	Dec. 7	21	7	37	1011
Saw mill. Band-	C. Esplin	339,539	Apr. 6	627	163	35	114
Saw mill. Band-	C. Esplin	340,943	Apr. 27	2619	689, 690	35	487
Saw mill. Band-	C. Esplin	341,376	May 4	568	157	35	607
Saw mill. Band-	J. L. Gage	354,407	Dec. 14	1100	295	37	1215
Saw mill. Band-	A. F. Griswold and H. R. Barnhurst.	338,170	Mar. 16	1739	454	34	1254
Saw mill. Band-	F. M. Hanks and H. N. Sibley	336,407	Feb. 16	1901	497	34	792
Saw mill. Band-	G. M. Hinkley	348,280	Aug. 31	2572	691, 692	36	970
Saw mill. Band-	J. W. Maxwell	339,797	Apr. 13	1020	252	35	186
Saw mill. Band-	J. Shavalier and A. Harvey	337,630	Mar. 9	1016	261	34	1116
Saw-mill carriage	E. Heyde	350,742	Oct. 12	904	242	37	172
Saw-mill carriage	T. W. Peck	333,664	Jan. 5	217	59	34	42
Saw-mill carriage	G. W. Robinson	348,295	Aug. 31	2592	697	36	975
Saw-mill carriages. Feed mechanism for	C. E. Clark	351,165	Oct. 19	1518	398	37	291
Saw-mill carriages. Feed mechanism for	G. M. Pelton	351,269	Oct. 19	1573	413	37	301
Saw mill. Circular-	J. P. Moore	341,678	May 11	991	262	35	699
Saw mill. Circular-	W. F. Parish	349,356	Sept. 21	1115	287, 288	36	1267
Saw mill. Circular-	H. R. Wolfe	335,729	Feb. 9	906	239	34	610
Saw mill. Combined band and circular	G. M. Hinkley	348,281	Aug. 31	2575	692, 693	36	971
Saw mill. Combined band and circular	G. M. Hinkley	348,282	Aug. 31	2578	693	36	972
Saw-mill dog	W. H. Bennett	335,419	Feb. 2	465	120	34	524
Saw-mill dog	N. J. Cushman	340,491	Apr. 20	1994	512	35	371
Saw-mill dog	J. B. Davis	334,515	Jan. 19	1453	390	34	282
Saw-mill dog	A. Delaney and J. M. Bond	344,355	June 29	2262	581	35	1446
Saw-mill dog	A. Delaney and J. M. Bond	344,356	June 29	2264	582	35	1446
Saw-mill dog	E. D. Johnson	342,361	May 25	1940	512	35	891
Saw-mill dog	J. C. Miller	354,207	Dec. 14	826	219	37	1164
Saw-mill dog	T. J. Neacy	337,856	Mar. 16	1309	339	34	1174
Saw-mill dog	W. M. Wilkin	336,194	Feb. 16	1589	417	34	737
Saw-mill feed-carriage	G. M. Hinkley	334,664	Jan. 19	1658	443	34	320
Saw-mill feed mechanism	G. Frick and E. Penney	355,071	Dec. 28	2057	540, 541	37	1409
Saw-mill feed mechanism	A. I. Hipp	343,457	June 8	1023	254, 255	35	1199
Saw-mill feed mechanism	A. B. Landis	337,507	Mar. 9	867	229	34	1088
Saw-mill feed mechanism	W. J. F. Liddell	347,000	Aug. 10	706	187	36	604
Saw-mill feed mechanism	T. J. Reamy	334,285	Jan. 12	1135	304	34	219
Saw mill. Gang-	J. C. Slocum	335,319	Feb. 2	325	85	34	500
Saw mill. Gang-	T. S. Wilkin	335,167	Feb. 2	99	26	34	458
Saw mill. Gang-	W. M. Wilkin	336,192	Feb. 16	1586	416	34	736
Saw-mill head-block	T. J. Reamy	334,284	Jan. 12	1133	304	34	218
Saw-mill head-blocks. Nose-guard for	C. Esplin	336,631	Feb. 23	2212	577	34	852
Saw mill. Reciprocating-	H. McEvilla	339,000	Mar. 30	2918	772	34	1477
Saw mill. Reciprocating-	W. M. Wilkin	338,124	Mar. 16	1682	437	34	1242
Saw-mill set-works	C. Esplin	344,366	June 29	2278	586	35	1449
Saw-mill set-works	F. J. Gleason	351,974	Nov. 2	358	98	37	525
Saw-mill set-works	A. I. Loop	338,684	Mar. 23	2448	646, 647	34	1387
Saw-mill set-works	W. F. Parish	352,838	Nov. 16	1534	413	37	760
Saw-mill set-works	A. E. Roe	353,886	Dec. 7	341	91	37	1069
Saw-mill set-works	T. S. Wilkin	335,168	Feb. 2	102	27	34	459
Saw mills. Feed-work for	B. E. Sergeant	349,180	Sept. 14	882	236, 237	36	1213

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Saw-mills. Log-bunk for	P. B. Williams	351,144	Oct. 19	1495	391	37	286
Saw-mills. Log-pusher for	R. W. Shelbourne	338,884	Mar. 30	2747	722	34	1446
Saw mills. Saw-sash for reciprocating	W. M. Wilkin	338,125	Mar. 16	1683	437	34	1243
Saw-mills. Set-works for	H. M. Wilcox	347,908	Aug. 24	2033	538	36	864
Saw-mills. Transfer apparatus for	G. W. Loggie	342,918	June 1	203	53	35	1042
Saw plant. Portable rail	W. L. Clements	353,922	Dec. 7	391	103	37	1078
Saw-set	G. W. Bugbee and F. Danner	338,161	Mar. 16	1729	451	34	1252
Saw-set	H. A. Hansen	351,106	Oct. 19	1442	378	37	276
Saw-set	R. E. Poindexter	346,944	Aug. 10	639	171	36	591
Saw-set	P. A. Potter	349,601	Sept. 21	1456	375	36	1333
Saw-set	A. W. Zimmerman	340,967	Apr. 27	2653	698	35	494
Saw set, gage, and raker-guide. Combined	M. Lalonde	345,791	July 20	1430	370	36	270
Saw setting and gumming tool. Combined	D. McDonough	336,933	Mar. 2	68	18	34	939
Saw setting and jointing device. Convertible	A. C. McEwen	340,802	Apr. 27	2433	640	35	455
Saw setting and sharpening machine	J. P. Cobb	354,691	Dec. 21	1528	405	37	1298
Saw-setting device	C. J. Balch	338,693	Mar. 30	2467	651	34	1397
Saw-setting device	D. Behmer	336,201	Feb. 16	1600	420	34	739
Saw-setting device	C. W. Coons and W. H. Metzger	340,585	Apr. 27	2133	551	35	403
Saw-setting device	O. G. Franks	349,989	Sept. 28	1996	515, 516	36	1444
Saw-setting device	H. C. Hart	344,655	June 29	2666	692	35	1523
Saw-setting device	J. B. Sylvester	352,207	Nov. 9	715	191	37	597
Saw-setting machine	C. Landgraf	335,596	Feb. 9	716	191	34	579
Saw-sharpener	L. Schevenell	348,143	Aug. 24	2362	633	36	925
Saw-sharpening device	J. G. Lynch and P. Lanton	348,168	Aug. 24	2403	644	36	933
Saw-sharpening machine	A. Blackmer	352,802	Nov. 16	1491	402, 403	37	752
Saw-sharpening machine	L. O. Orton	339,576	Apr. 6	710	174	35	124
Saw-swage	J. E. Emerson	354,114	Dec. 14	679	183	37	1138
Saw-swage	B. H. Miller	351,520	Oct. 26	2056	533	37	395
Saw-swage	A. Stevens	340,016	Apr. 13	1315	328, 329	35	241
Saw-swage	C. Ward	352,670	Nov. 16	1318	355	37	719
Saw-swaging device	M. Covel	342,188	May 18	1661	444	35	833
Saw-swaging device	P. R. Ward	350,853	Oct. 12	1068	285, 286	37	201
Saw-swaging machine	G. S. Black	342,172	May 18	1646	440	35	830
Saw-swaging machine	M. Covel	345,121	July 6	445	115	36	81
Saw-swaging machine	E. Dunning	346,844	Aug. 3	486	134, 135	36	555
Saw-table	H. J. Thompson	346,241	July 27	2060	529	36	395
Saw-table gage	J. H. Palm	345,071	July 6	382	96	36	69
Saw-table gage	D. W. Standeford	333,562	Jan. 5	83	24	34	18
Saw-teeth. Device for cutting and gumming	A. S. Norwood	342,263	May 18	1765	468	35	852
Saw-teeth. Device for swaging	J. A. Crossman and N. C. Buch	343,658	June 15	1292	325	35	1255
Saw-teeth. Method of and device for turning down the points of	I. N. Kendall	348,220	Aug. 31	2497	672	36	956
Saw-tempering apparatus	W. B. Barry	343,358	June 8	871	219	35	1172
Saw-tooth	E. J. M. Becker	341,789	May 11	1126	298	35	725
Saw-tooth	S. Kinney	343,713	June 15	1393	347	35	1272
Saw-tooth	A. Krieger	340,051	Apr. 13	1364	342	35	250
Saw-tooth	W. B. Risdon	337,083	Mar. 2	266	71	34	976
Saw-tooth	C. J. Wilson	337,103	Mar. 2	293	77	34	980
Saw-tooth. Diamond	T. A. Jackson	341,011	May 4	54	14	35	515
Saw-tooth-dressing device	H. O. Kelsey	340,582	Apr. 27	2131	550	35	403
Saw-tooth. Insertible	A. Krieter	334,241	Jan. 12	1064	282	34	306
Saw-tooth. Insertible	F. Miller	342,029	May 18	1448	388	35	793
Saw-tooth. Insertible	E. S. Snyder	353,385	Nov. 30	2317	620	37	924
Saw-tooth. Insertible	J. Timmons	341,187	May 4	298	85	35	560
Saw-tooth. Insertible oscillating	J. S. Swank and W. Dages	334,303	Jan. 12	1158	309	34	223
Saw-tooth-swaging device	S. A. Parke	333,549	Jan. 5	59	17	34	14
Saw-vise	O. Seely	339,020	Mar. 30	2948	780	34	1482
Saws and drilling. Device for filing	C. L. Polley	337,432	Mar. 9	772	197	34	1072
Saws. Automatic feed for edging	E. H. Barnes	345,758	July 20	1382	359	36	261
Saws. Device for jointing and setting the teeth of	R. M. Sanford	351,286	Oct. 19	1679	441	37	320
Saws. Device for jointing circular	K. Shives	343,203	June 8	619	154	35	1128
Saws. Device for jointing the teeth of	G. S. Black	353,659	Dec. 7	8	3	37	1008
Saws. Device for setting	C. Morrill	354,167	Dec. 14	763	205	37	1153
Saws for brazing. Machine for fitting band	J. M. Petersen	341,939	May 18	1333	356	35	772
Saws. Guard for gin	J. C. Wallace	350,026	Sept. 28	2046	528	36	1452
Saws. Guide-roll for band	G. S. Black	353,530	Nov. 30	2539	677	37	965
Saws. Machine for filing cotton-gin	W. H. Blanchard	338,025	Mar. 16	1552	402	34	1217
Saws. Machine for grinding shingle	H. A. Squire	341,071	May 4	134	39, 40, 41	35	530
Saws. Machine for jointing and dressing circular	C. Schoch	344,730	Jan. 19	1744	466	34	337
Saws. Machine for making	G. W. Griffin	339,641	Apr. 13	806	198	35	148
Saws. Machine for rolling	L. O. Orton	338,434	Mar. 23	2110	552	34	1328
Saws. Mandrel for circular	D. Leary	347,942	Aug. 24	2088	554	36	875
Saws. Supporting-wheel for band	G. M. Hinkley	348,283	Aug. 31	2578	693	36	972
Saws. Wheel for band	G. M. Hinkley	353,260	Nov. 23	2133	573	37	884
Sawdust and other material by centrifugal action. Apparatus for washing and separating	J. V. V. Booraem	353,775	Dec. 7	167	46	37	1038
Sawdust and production of gas. Automatic apparatus for carbonizing	E. W. Rathbun	353,966	Dec. 7	459	124	37	1090
Sawing-machine	A. J. Demoss and W. S. Pearce	349,984	Sept. 28	1990	514	36	1442
Sawing-machine	D. W. Smith	334,297	Jan. 12	1152	308	34	222
Sawing-machine. Band	J. J. Bowen	336,693	Feb. 23	2305	603	34	870
Sawing-machine. Band	G. Puhl and A. Mertes	350,894	Oct. 12	1121	298, 299	37	211
Sawing machine. Circular	E. S. Collins	344,568	June 29	2553	660	35	1500
Sawing machine. Circular	W. H. Finn	346,097	July 27	1847	477	36	354
Sawing machine. Circular	W. H. Gray	355,011	Dec. 28	1973	519	37	1393
Sawing machine. Circular	D. A. Greene	337,947	Mar. 16	1439	373	34	1198

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sawing machine. Circular	G. M. Hinkley	334,663	Jan. 19	1656	442 443	34	320
Sawing machine. Circular	J. H. Palm	345,070	July 6	380	96	36	69
Sawing machine. Circular	I. V. Roy	354,811	Dec. 21	1692	446 447	37	1330
Sawing machine. Circular	C. Tollner	344,066	June 22	1855	477	35	1366
Sawing machine. Circular	J. F. Welch	334,141	Jan. 12	895	245 246	34	174
Sawing-machine feed-table	D. J. Murray	343,057	June 1	400	102	35	1079
Sawing machine. Fire-wood	J. Gilmore	333,848	Jan. 5	482	130	34	89
Sawing machine. Scroll	E. Collins	340,097	Apr. 20	1429	361	35	267
Sawing-machine. Tubular	J. H. Whitaker	342,661	May 25	2360	623	35	967
Sawing machine. Wood	S. P. Dresser	334,574	Jan. 19	1533	410	34	297
Sawing-off machine. Automatic	J. H. Morrison	351,518	Oct. 26	2051	532 533	37	394
Sawing off stumps. Machine for	J. Q. Adams	343,787	June 15	1481	372	35	1289
Sawing stumps. Machine for	A. Leitelt	341,667	May 11	971	257 258	35	694
Scabbard. Metallic bayonet	J. McKenney	334,269	Jan. 12	1115	299	34	214
Scaffold	T. C. Goudie	344,734	June 29	2766	716	35	1539
Scaffold	D. Unverferth	339,502	Apr. 6	558	135	35	103
Scaffold. Adjustable	S. Tucker	348,359	Aug. 31	2671	720	36	991
Scaffold-bracket	W. W. Hughes	346,160	July 27	1940	500	36	372
Scaffold-bracket	L. C. Springer	347,659	Aug. 17	1681	448	36	792
Scaffold-bracket	M. E. Trafton	333,768	Dec. 7	158	44	37	1036
Scaffold-bracket for ladders	J. Mitchell	349,232	Sept. 14	959	244	36	1228
Scaffold-bracket. Mechanic's and builder's	S. E. Rhodes	339,321	Apr. 6	295	74	35	56
Scaffold. Carpenter's and painter's	H. Deck	338,253	Mar. 23	1854	487	34	1284
Scaffold-clamp	C. Whittingham	351,143	Oct. 19	1494	391	37	286
Scaffold. Suspended	W. H. Birck and W. Fischer	346,019	July 20	1750	450	36	326
Scaffold. Window	J. Ettlin	350,924	Oct. 19	1161	308	37	225
Scaffolds. Safety attachment for	L. Amon	354,880	Dec. 28	1791	473	37	1361
Scaffolding-bracket	S. Martin	352,420	Nov. 9	986	265	37	650
Scaffolding-support	J. T. Johnson	352,873	Nov. 16	1581	427	37	770
Scaffolding-trestle	M. Pinkston	340,004	Apr. 13	1299	325	35	238
Scale. Automatic grain	D. E. Kelley and H. D. Pratt	354,423	Dec. 14	1118	300	37	1218
Scale. Automatic grain	A. F. Sparks	348,066	Aug. 24	2265	606 607	36	907
Scale. Automatic grain-weighing	C. Dominy	353,353	Nov. 30	2271	606 607	37	915
Scale. Automatic weighing	J. Ball	338,654	Mar. 23	2399	632	34	1379
Scale. Automatic weighing	M. F. Koch	346,852	Aug. 3	497	137 138	36	557
Scale. Automatic weighing	H. K. Warner	353,388	Nov. 30	2321	621	37	925
Scale-beam	R. L. Hassell	338,266	Mar. 23	1869	491	34	1286
Scale for measuring gas-pipe and fittings	W. L. Cheney	344,721	June 29	2746	712	35	1536
Scale for weighing according to two standards	W. W. Reynolds	351,528	Oct. 26	2068	536	37	398
Scale for weighing vehicles. Portable	L. R. and E. A. Witherell	344,762	June 29	2802	726	35	1546
Scale. Grain	K. H. Schaper	349,457	Sept. 21	1264	328	36	1295
Scale. Grain weighing and registering	W. M. Perkins	343,844	June 15	1550	393	35	1302
Scale-indicator	J. H. Rosecrans	336,595	Feb. 23	2156	564	34	843
Scale. Letter	T. B. Willson	336,275	Feb. 16	1716	448	34	757
Scale. Linear	J. T. Honeycutt	346,366	July 27	2326	571	36	426
Scale pan. Spring-balance	C. R. Maguire	351,274	Oct. 19	1664	437	37	317
Scale. Pivot	J. S. Redline	334,051	Jan. 12	771	211	34	151
Scale. Price	J. E. Pitrat	341,166	May 4	272	77	35	554
Scale. Proportional weighing	E. L. Rowe	334,288	Jan. 12	1138	305	34	220
Scale. Sack	G. P. Morlock	340,594	Apr. 27	2144	554	35	405
Scale-section liner	C. M. Podgórski	345,989	July 20	1705	438	36	319
Scale. Spring-balance	C. R. Maguire	338,535	Mar. 23	2236	587	34	1351
Scale. Weighing	M. G. Cook	349,570	Sept. 21	1416	366 367	36	1326
Scale. Weighing	G. W. Craig	336,472	Feb. 16	1988	521	34	807
Scale. Weighing	J. H. Fisher	335,909	Feb. 9	1171	311	34	657
Scale. Weighing	D. Hallock	336,641	Feb. 23	2225	581	34	854
Scale. Weighing	J. A. Knowles, Jr	337,772	Mar. 9	1189	309	34	1146
Scale. Weighing	P. H. O'Neill	347,056	Aug. 10	795	211	36	619
Scale. Weighing and price	N. W. Austin	346,017	July 20	1748	449 450	36	326
Scale. Weighing and price	J. E. Pitrat	344,857	July 6	87	23	36	16
Scales. Platform for railway-track	T. M. Taylor	334,995	Jan. 26	2081	556	34	406
Scalper	R. Bing	342,857	June 1	110	28	35	1026
Scarf. Neck	S. Popper	334,467	Jan. 19	1389	375	34	272
Scarf-pin and other pinned jewelry	C. H. Morrell	355,196	Dec. 28	2238	590	37	1446
Scarf-pins. Device for securing	J. E. Master	345,794	July 20	1433	371	36	270
Scarf. Sailor-knot	H. Heath	345,897	July 20	1578	407	36	296
Scarf. Sailor-knot	H. Heath	346,041	July 20	1778	457 458	36	331
Scarfs, collars, &c. Stand for exhibiting	C. C. Shelby	349,529	Sept. 21	1361	354	36	1315
Scarfs for neck-wear. Adjustable holder for	W. B. Pope	335,717	Feb. 9	888	234	34	606
Scarfs. Making sailor-knot	H. Heath	335,071	Jan. 26	2198	584	34	426
Scholar's companion	T. D. Richardson	343,201	June 8	617	154	35	1128
School seat and desk	W. J. Perkins	334,802	Jan. 26	1840	490 491	34	363
Scissors	E. M. Corbett	346,583	Aug. 3	167	45	36	492
Scissors	H. R. Kimbler	348,749	Sept. 7	289	77	36	1101
Scissors cutting-gage	F. B. Johnson	339,785	Apr. 13	1005	248	35	183
Scoop	J. Pfeifer	340,816	Apr. 27	2450	644	35	458
Scoop	J. A. Silbermann and J. G. Rodrüan	335,390	Feb. 2	425	109	34	517
Scoop. Wooden	N. E. Nichols	344,541	June 29	2522	650	35	1493
Scouring-box	H. D. Place	340,059	Apr. 13	1372	344	35	251
Scow. Dumping	F. Scripture	335,316	Feb. 2	322	84	34	499
Scraper	J. T. Boyd	333,990	Jan. 12	678	185	34	135
Scraper	J. Hocking	354,862	Dec. 21	1759	465	37	1343

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Scraper and brush. Combined shoe	W. P. Manning	336,931	Mar. 2	66	18	34	938
Scraper and grader. Road	C. H. Dana	337,930	Mar. 16	1409	365	34	1192
Scraper and snow-plow. Rail-	E. B. Durfee	353,738	Dec. 7	122	34	37	1029
Scraper attachment for vehicles. Road-	C. G. Jones	339,661	Apr. 13	831	204	35	153
Scraper, clod-guard, and gage. Combination	W. B. Miller	334,082	Jan. 12	816	223	34	159
Scraper. Corn and cotton	W. H. Adams	352,107	Nov. 9	561	149	37	571
Scraper. Drag-	F. W. Hubbard	348,740	Sept. 7	279	75	36	1099
Scraper. Flexible	A. J. Kaelin	353,863	Dec. 7	298	78	37	1061
Scraper. Revolving	J. Dugaw	350,874	Oct. 12	1095	292	37	207
Scraper. Road-	H. D. Cook	342,068	May 18	1515	404	35	805
Scraper. Road-	E. Lathrop	334,177	Jan. 12	957	260	34	185
Scraper. Road-	F. M. Moulton	347,820	Aug. 24	1911	508	36	842
Scraper. Road-	J. M. Orput	352,345	Nov. 9	896	240	37	631
Scraper-sharpener	G. Peter	347,506	Aug. 17	1442	383	36	747
Scraper. Wheeled	P. Deevy	346,147	July 27	1921	496	36	368
Scraper. Wheeled	F. W. Hubbard	354,473	Dec. 14	1191	319	37	1231
Scraper. Wheeled dirt-	W. L. Fay	334,422	Jan. 19	1392	358	34	259
Scraper. Wheeled dirt-	J. R. Williams	336,195	Feb. 16	1591	418	34	737
Scraper. Wheeled road-	W. E. Jacobs	350,136	Oct. 5	50	14	37	12
Scrapers. Attachment for road-	C. G. Jones	352,133	Nov. 9	605	160	37	578
Screen:							
See Bird-cage screen. Head-screen.							
Carriage-screen. Head-light screen.							
Extension-screen. Insect-screen.							
Fire-screen. Paper-pulp screen.							
Folding screen. Ventilating-screen.							
Grain-screen. Window-screen.							
Screen	W. L. Card	347,870	Aug. 24	1980	525	36	854
Screen	J. Norwood	347,730	Aug. 17	1773	473	36	808
Screen for coal and other materials	S. T. Varian	336,271	Feb. 16	1713	446	34	756
Screen for the eyes	J. J. Robbins	351,466	Oct. 26	1975	514	37	379
Screens. Corner or plate attachment for extension window-	E. N. Porter	337,433	Mar. 9	773	197	34	1073
Screens. Fly-escape for window and door	A. Willis	341,087	May 4	153	46	35	533
Screening or bolting machine	W. H. Bane	342,166	May 18	1639	438	35	829
Screening-plates. Making perforated	S. H. Harrington	354,412	Dec. 14	1105	297	37	1216
Screw	C. Hall	338,956	Mar. 30	2841	749	34	1465
Screw and drill tool	O. L. Neal	348,765	Sept. 7	311	83	36	1105
Screw-cutting die	G. Holstein	350,366	Oct. 5	354	102	37	72
Screw-cutting lathe-tool	L. E. Rhodes	346,499	Aug. 3	63	16	36	472
Screw-cutting machine	C. W. Bowden	343,102	June 1	466	119	35	1091
Screw-cutting machine	E. Landelle	342,520	May 25	2172	575	35	931
Screw-cutting machine	C. A. Weller	348,365	Aug. 31	2679	721, 722	36	992
Screw. Drive-	H. K. Jones	335,286	Feb. 2	283	75	34	491
Screw-driver	L. Bailey	348,815	Sept. 7	368	100	36	1116
Screw-driver	H. S. Brownson	344,160	June 22	1988	508	35	1389
Screw-driver	J. R. Doolittle	339,277	Apr. 6	233	58	35	43
Screw-driver	J. S. Fray	336,560	Feb. 23	2105	554	34	835
Screw-driver	E. D. King	343,150	June 1	543	138	35	1105
Screw-driver	T. G. G. Mouat	346,058	July 20	1798	464	36	335
Screw-driver	W. L. Parmelee	339,456	Apr. 6	493	120	35	91
Screw-driver	W. F. Patterson and H. B. Stillman	346,603	Aug. 3	194	52	36	498
Screw-driver. Watch-maker's	O. L. Neal	334,886	Jan. 26	1941	517	34	381
Screw holder and driver. Combined	W. E. Douglas	351,751	Nov. 2	32	9	37	465
Screw hook and eye	A. W. Parmelee	350,209	Oct. 5	163	48	37	34
Screw-jack	H. W. Robie	349,663	Sept. 21	1528	394	36	1349
Screw. Jack-	O. Seely	352,362	Nov. 9	915	245	37	635
Screw-machine	A. Johnston	337,499	Mar. 9	854	216, 217	34	1086
Screw-machine	F. F. Motley	337,976	Mar. 16	1479	384	34	1204
Screw machine. Metal-	H. K. Jones	354,603	Dec. 21	1395	369, 370, 371	37	1274
Screw machine. Metal-	J. Stehli	351,291	Oct. 19	1687	442, 443	37	321
Screw-machines. Guide-collar for	W. Timmins and C. I. Humphreys	346,391	July 27	2264	580	36	433
Screw-press	F. P. Hall and J. H. Smith	335,447	Feb. 2	501	130	34	531
Screw-shaving machine. Multiple	H. A. Harvey and C. S. Clark	348,967	Sept. 14	586	155, 156	36	1160
Screw-swaging machine	C. Fairbairn	345,959	July 20	1660	428, 429, 430	36	311
Screw-tap	J. Berg	347,864	Aug. 24	1965	521	36	853
Screw-threading device	J. Miller	338,282	Mar. 23	1891	497	34	1290
Screw-threading machine	O. C. Burdict	349,083	Sept. 14	752	191, 192	36	1188
Screw-threading tool	G. D. Tucker	336,024	Feb. 9	1317	349	34	682
Screws. Die for swaging	B. A. Kennedy	338,276	Mar. 23	1885	495	34	1289
Screws. Manufacture of drive-	H. K. Jones	335,132	Feb. 2	48	13	34	449
Scroll-work. Making	F. Hainsworth	351,435	Oct. 26	1927	502	37	369
Scroll-work. Manufacture of	F. Hainsworth	351,436	Oct. 26	1928	502	37	369
Scrubbing paint, floors, &c. Compound for	C. Zimmerling	348,179	Aug. 24	2428	.....	36	937
Scutching and cleansing fibrous stems, leaves, and the like. Apparatus for	W. E. Death	336,395	Feb. 16	1886	493	34	789
Scutching-machine	A. E. Newman	345,985	July 20	1698	437	36	318
Scuttle	A. H. Lorton	340,722	Apr. 27	2325	612	35	435
Scythe-fastening	H. B. Robertson and C. Danker	347,515	Aug. 17	1456	387	36	749
Scythe-snath	J. Simpson	339,488	Apr. 6	540	131	35	100
Scythe-snath fastener	D. W. Marston	349,353	Sept. 21	1110	286	36	1266
Seal	E. J. Brooks	345,764	July 20	1394	362	36	264
Seal	E. J. Brooks	348,884	Sept. 7	470	124	36	1134
Seal. Case and package	A. D. Penfold	352,000	Nov. 2	396	108	37	532
Seal for freight-car and other locks	C. V. Boughton	340,758	Apr. 27	2377	626	35	444

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Seal. Lead	F. W. Brooks	354,036	Dec. 7	560	152	37	1108
Seal. Lead-and-wire	E. J. Brooks	349,873	Sept. 28	1841	476	36	1415
Seal. Lead-and-wire	T. Wenk and E. J. Brooks	340,394	Apr. 20	1859	477	35	346
Seal-lock	S. E. Allen	349,871	Sept. 28	1838	475	36	1414
Seal-lock	G. H. Angell and C. L. Leslie	334,407	Jan. 19	1301	352	34	255
Seal-lock	C. E. Davis	352,522	Nov. 16	1110	301	37	682
Seal-lock	F. A. Dunning	337,938	Mar. 16	1421	368	34	1194
Seal-lock	D. Ferris	349,702	Sept. 28	1588	411	36	1367
Seal-lock	H. K. Harker	340,041	Apr. 13	1350	338	35	247
Seal-lock	M. C. Harney	346,157	July 27	1938	499	36	371
Seal-lock	M. C. Harney	351,030	Oct. 19	1342	353	37	258
Seal-lock	J. Jordan and I. C. Plant	350,885	Oct. 12	1109	295, 296	37	209
Seal-lock	M. Kersten	347,180	Aug. 10	975	260	36	652
Seal-lock	J. V. King	336,118	Feb. 16	1464	386	34	716
Seal-lock	J. A. Kirby	344,049	June 22	1830	470	35	1360
Seal-lock	G. Koch	336,925	Mar. 2	59	16	34	937
Seal-lock	S. W. Neall	347,191	Aug. 10	991	264	36	655
Seal-lock	H. H. Perkins	340,351	Apr. 20	1811	464	35	337
Seal-lock	A. P. Powers and S. W. Wilkes	341,502	May 11	736	198	35	640
Seal-lock	J. M. Smith	333,558	Jan. 5	79	22, 23	34	17
Seal-lock	J. M. Smith	337,879	Mar. 16	1339	347	34	1179
Seal-lock	J. M. Smith	339,490	Apr. 6	543	131	35	100
Seal-lock	G. H. Steadman	334,302	Jan. 12	1157	309	34	223
Seal-lock	R. M. Sully	341,779	May 11	1114	295	35	724
Seal-lock	R. M. Sully	341,780	May 11	1116	296	35	724
Seal-lock	R. O. Walker	353,099	Nov. 23	1916	514	37	841
Seal-lock	G. B. Williams	335,867	Feb. 9	1098	290	34	646
Seal-lock for car-doors	J. M. Smith	335,250	Feb. 2	232	61	34	482
Seal-lock for milk-cans	W. H. Stoops	343,207	June 8	629	157	35	1130
Seal-locks. Seal for	J. Jordan and I. C. Plant	350,886	Oct. 12	1111	296	37	210
Seal. Self-fastening	E. J. Brooks	353,246	Nov. 23	2117	567	37	881
Seal. Metallic	C. L. Pond	343,849	June 15	1558	395	35	1304
Seal. Metallic	C. L. Pond	345,173	July 6	515	132	36	94
Seal-press	E. J. Brooks	339,042	Mar. 30	2976	787	34	1487
Seal-press	E. Q. Darr	340,768	Apr. 27	2387	629	35	446
Seal-press	J. H. Hamilton	344,829	July 6	37	9	36	2
Seal-press	C. L. Pond	334,395	Jan. 12	1274	344	34	244
Seal-press	C. L. Pond	336,663	Feb. 23	2265	590	34	862
Seal-press. Hand	G. C. Tewksbury	343,780	June 15	1472	369	35	1287
Seal. Self-fastening	E. J. Brooks	340,932	Apr. 27	2600	685	35	485
Seal. Self-fastening	E. J. Brooks	348,509	Aug. 31	2894	778	36	1032
Seal. Tin-strip	E. J. Brooks	345,765	July 20	1396	362	36	264
Seal trap. Mercury	A. Edwards	339,749	Apr. 13	962	237	35	175
Sealing cans. Apparatus for hermetically	C. B. Davis	345,487	July 13	957	242	36	178
Sealing cans. Apparatus for hermetically	C. B. Davis	345,488	July 13	958	243	36	178
Seam or joint. Air and water tight butt	G. J. Tagg	339,710	Apr. 13	905	222	35	165
Seam protector. Vest	J. A. Nober	345,646	July 13	1217	314	36	225
Seam rubbing or pressing machine	C. W. Collyer	341,407	May 4	611	167, 168	35	615
Seam-trimming machine	C. H. Helms	345,303	July 13	703	177	36	132
Seaming implement. Sheet-metal-roof	P. Vanden Berghe	340,174	Apr. 20	1546	390	35	288
Seaming-machine for sheet metal	C. Puddefoot	354,654	Dec. 21	1474	391	37	1288
Seaming machine. Roof	S. E. Holt and E. Aldrich	353,944	Dec. 7	423	117	37	1084
Seaming-machine. Tinner's	H. Poell	338,187	Mar. 16	1766	461	34	1260
Seaming sheet metal. Machine for	H. J. Noyes	337,427	Mar. 9	749	192	34	1069
Seat:							
See Adjustable seat. School-seat.							
Car-seat. Shingling-seat.							
Carriage-seat. Tricycle-seat.							
Chair-seat. Valve-seat.							
Harvester-seat. Vehicle-seat.							
Jump-seat. Wagon-seat.							
Reversible seat. Wash-tub seat.							
Rocking seat. Window-seat.							
Seat	M. Benedict	337,364	Mar. 9	646	171	34	1052
Seat-fastener	J. H. Giesey	354,015	Dec. 7	532	145	37	1103
Seat-lock	A. D. Lovett	353,228	Nov. 23	2093	560	37	876
Sea-weed. Manufacture of useful products from	E. C. C. Stanford	341,072	May 4	136	.....	35	530
Secondary batteries or accumulators. Manufacture of	S. Farbaky and S. Schenek	348,625	Sept. 7	129	36	36	1071
Secondary battery	C. F. Brush	337,298	Mar. 2	564	148, 149	34	1030
Secondary battery	C. F. Brush	337,299	Mar. 2	565	149	34	1030
Secondary battery	A. L. De Virloy, E. Commelin, and G. Bailhache	345,124	July 6	450	116	36	82
Secondary battery	W. H. Remington	342,385	May 25	1972	520	35	896
Secondary battery	V. Sass and K. Friederich	354,352	Dec. 14	1037	.....	37	1203
Secondary battery	E. T. Starr	347,258	Aug. 10	1080	289	36	672
Secondary-battery circuits. System for controlling	J. M. Pendleton	343,392	June 8	925	231, 232	35	1182
Secondary-battery element	C. Sorley	353,511	Nov. 30	2506	668, 669	37	959
Secondary battery or accumulator	S. Farbaky and S. Schenek	344,957	July 6	217	56	36	40
Secondary battery or accumulator	J. Pitkin	341,600	May 11	874	233	35	676
Secondary or storage battery	C. Sorley	341,860	May 11	1222	327	35	744
Sectional and folding boat	F. W. Urann	338,450	Mar. 23	2130	557	34	1332
Sectional boiler	J. F. and J. H. Allen	347,859	Aug. 24	1959	520	36	852
Securer:							
See Door-securer. Stair-rod securer.							
Seed and fertilizer distributer	E. T. Camp	352,117	Nov. 9	572	152	37	573
Seed-cotton cleaner	W. O. Coleman	343,228	June 8	658	164	35	1135
Seed distributer. Cotton	S. R. Byrd	341,994	May 18	1396	373	35	783
Seed-distributer, harrow, and roller. Combined	T. R. Crane	345,214	July 6	569	145	36	103

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Seed-drill	E. J. Corser	341,373	May 4	564	155, 156	35	606
Seed-drill	J. V. Harter	351,698	Oct. 26	2310	600	37	442
Seed-drill	J. M. LeValley	342,522	May 25	2174	575	35	931
Seed-drill. Garden	T. Edwards, Jr	347,779	Aug. 24	1846	492	36	830
Seed-dropper	J. F. Packer	345,917	July 20	1604	413, 414	36	301
Seed dropper	A. H. Wiedhofft	351,950	Nov. 2	321	89	37	517
Seed. Machine for separating flax	J. Bates	340,542	Apr. 27	2071	534	35	392
Seed or grain distributing device	H. E. Cole	336,390	Feb. 16	1880	492	34	788
Seed. Removing fiber from cotton	W. L. Dudley	334,109	Dec. 14	671	180	37	1137
Seed. Removing fiber from cotton	W. L. Dudley and N. W. Perry	344,951	July 6	210	54	36	39
Seed separator. Flax	G. Adams	333,911	Jan. 5	565	153	34	106
Seed to remove the lint. Treating cotton	W. H. Stead	340,635	Apr. 27	2201	579	35	414
Seeder	W. H. Holcomb	335,082	Dec. 28	2074	545	37	1413
Seeder	C. W. Levalley	338,987	Mar. 30	2886	764	34	1472
Seeder	W. M. Lovin	335,709	Feb. 9	879	231	34	604
Seeder and cultivator. Combined	B. M. Johnson	348,399	Aug. 31	2734	733, 734	36	1003
Seeder and cultivator. Disk	B. C. Dorsey	344,950	July 6	299	54	36	39
Seeder and drill. Combined or interchangeable	J. S., S. W., and T. B. Rowell	343,280	June 8	737	183	35	1148
Seeder and harrow. Combined	E. Emmert	345,289	July 13	684	172, 173	36	129
Seeder. Broadcast	D. W. Webster and R. J. Smith	335,661	Feb. 9	802	213, 214	34	591
Seeder. Disk	T. A. Galt and G. S Tracy	336,711	Feb. 23	2321	608	34	874
Seeder, fertilizer, and cultivator. Combined	C. A. Jones	342,103	May 18	1565	418	35	815
Seeder. Grain and grass	G. W. Kirkpatrick	342,209	May 18	1685	449	35	838
Seeding-machine	W. D. Arnett	345,403	July 13	838	210	36	156
Seeding-machine	T. Braum	351,247	Oct. 19	1628	428	37	311
Seeding-machine	W. F. Damitz, J. D. Murphy, and H. Paxton.	344,167	June 22	1999	512, 513	35	1391
Seeding-machine	L. Eberhart and I. D. Stevens	340,563	Apr. 27	2100	541, 542	35	397
Seeding-machine	A. and J. Hinman	348,213	Aug. 31	2483	667, 668	36	954
Seeding-machine	J. Horey and C. Marsh	335,928	Feb. 9	1192	317	34	661
Seeding-machine	D. E. McSherry	354,163	Dec. 14	756	203	37	1151
Seeding-machine	G. H. Preston	339,578	Apr. 6	712	174	35	125
Seeding-machine	P. E. Rogers	334,396	Jan. 12	1276	344	34	244
Seeding-machine	R. B. Sheldon and J. V. Peacock	335,779	Feb. 9	982	260	34	623
Seeding machine. Broadcast	S. S. Speicher	349,821	Sept. 28	1777	459	36	1401
Seeding-machine drill-tube	G. M. Williams	334,683	Jan. 19	1684	449	34	325
Seeding-machine. Hand	A. D. Baker and W. H. Oren	352,673	Nov. 16	1323	356	37	719
Seesaw. Adjustable and balancing	A. B. Flach	335,346	Feb. 2	366	95	34	507
Selecting device	J. E. Munson	352,143	Nov. 9	618	164	37	580
Self-acting brake	E. V. V. Desdouits	354,399	Dec. 14	1089	293	37	1313
Semaphore	F. Stützel and C. Weinedel	344,755	June 29	2796	724	35	1544
Semaphore	R. G. Stone	351,003	Oct. 19	1306	343	37	251
Semaphore and other elevated signal-lights	E. S. Piper	347,640	Aug. 17	1652	438	36	787
Semaphore-signal	A. G. Cummings	340,489	Apr. 20	1990	510	35	370
Semaphore-signal	A. G. Cummings	340,490	Apr. 20	1991	511	35	370
Semaphore-signal	F. I. Myers	344,494	June 29	2451	629	35	1480
Semaphore-signal	V. Spicer and J. Schreuder	346,387	July 27	2255	577, 578	36	431
Semaphore-signal	W. Thornburgh	346,243	July 27	2062	529	36	395
Separating-table	B. H. Vellines	339,605	Apr. 6	743	183	35	131
Separator: *See* Coal-separator. Liquid-separator. Cockle-separator. Magnetic separator. Cockle and grain separator. Ore-separator. Rain-water separator. Cream-separator. Sand and gravel separator. Fiber-cleaning separator. Seed-separator. Grain-separator. Steam, water, and dirt separator. Grain and middlings separator. Tooth-separator.							
Separator or cleaner	A. Swingle	350,171	Oct. 5	106	30	37	22
Service-pipes. Box for the stop-cocks of	J. V. Clarke	349,567	Sept. 21	1413	365	36	1325
Settee. Folding	W. Baldwin	346,454	Aug. 3	5	2	36	461
Settee. Folding	N. J. Walsworth	342,886	June 1	157	40	35	1034
Setting apparatus. Automatic	T. W. Burt	338,824	Mar. 30	2659	700	34	1431
Settler	J. E. Clayton and S. F. Mackie	344,519	June 29	2491	641, 642	35	1487
Settler	H. H. Scoville	349,458	Sept. 21	1265	328	36	1295
Sewage, &c. Apparatus for collecting and drying sedimentary matter of	R. Corscaden	340,290	Apr. 20	1716	437, 438	35	318
Sewage, &c. Dry system of disposing of	T. Hawksley	334,436	Jan. 19	1337	362, 363	34	262
Sewage. System of disposing of	W. R. Hinsdale	346,203	July 27	1998	515, 516	36	383
Sewage. Treating	J. W. Slater and W. Stevens	352,894	Nov. 16	1610	.....	37	775
Sewer	C. Schirrmeister	344,138	June 22	1958	500	35	1384
Sewer-cleaning apparatus	G. W. Pringle	345,804	July 20	1449	375, 376	36	373
Sewer-gas and stench trap	T. Shehan	335,967	Feb. 9	1241	329	34	669
Sewer-gas trap	F. E. Cudell	348,829	Sept. 7	387	105	36	1119
Sewer-gas trap	F. E. Cudell	348,830	Sept. 7	387	105	36	1119
Sewer-gas-trap mold	C. W. Garland	336,279	Feb. 2	272	71	34	489
Sewer invert-blocks. Composition for making	S. A. Miller	336,732	Feb. 23	2351	615	34	879
Sewer-pipe	G. S. Roberts	342,225	May 18	1708	455	35	842
Sewer-pipe	G. S. Roberts	342,226	May 18	1711	455	35	843
Sewer system	C. E. Grunsky	355,163	Dec. 28	2193	579	37	1436

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Sewer-trap	B. P. Bower	339,851	Apr. 13	1092	271	35	200
Sewer-trap	D. Higgins	334,378	Jan. 12	1253	338	34	240
Sewer trap or ventilator	G. W. Beard	334,158	Jan. 12	936	253	34	180
Sewers. Apparatus for flushing	J. Scott	344,873	July 6	112	28	36	20
Sewers. Catch-basin inlet and cover for	H. W. McDonald	347,496	Aug. 17	1428	380	36	744
Sewerage or drainage apparatus. House	H. C. Lowrie	343,326	June 8	814	205	35	1161
Sewerage system	J. H. Clark	354,688	Dec. 21	1523	404	37	1297
Sewing and embroidering machines. Stop-motion mechanism for	E. Cornely	345,887	July 20	1565	403	36	293
Sewing and embroidering machines. Thread-cutting apparatus for	E. Cornely	346,091	July 27	1839	475	36	353
Sewing and other machines. Stop mechanism for	J. W. Lufkin	347,053	Aug. 10	792	210	36	619
Sewing. Book-	D. M. Smyth	338,000	Mar. 16	1520	393	34	1212
Sewing-cord	J. H. Briggs	346,577	Aug. 3	161	44	36	491
Sewing-machine	C. H. Bayley	345,207	July 6	556	142	36	101
Sewing-machine	W. F. Beardslee	355,053	Dec. 28	2035	535	37	1405
Sewing-machine	L. S. Bortree	344,240	June 22	2099	536, 537	35	1410
Sewing-machine	J. C. Cochran	341,881	May 18	1256	337	35	758
Sewing-machine	H. H. Cummings, W. E. Bennett, and R. Thompson.	343,949	June 15	1679	430, 431, 432	35	1328
Sewing-machine	J. A. Davis	353,255	Nov. 23	2128	571, 572	37	883
Sewing-machine	W. F. Dial	350,044	Sept. 28	2061	533	36	1456
Sewing-machine	W. F. Dial	350,045	Sept. 28	2063	533	36	1456
Sewing-machine	P. Diehl	347,776	Aug. 24	1841	490	36	828
Sewing-machine	H. E. Dieterle	353,542	Nov. 30	2554	681, 682	37	969
Sewing-machine	L. Eschner	353,487	Nov. 30	2467	659, 660	37	952
Sewing-machine	W. H. Garland and H. Schulze-Berge.	344,825	July 6	29	8	36	7
Sewing-machine	C. F. Harlow and E. E. Angell	349,393	Sept. 21	1177	305	36	1279
Sewing-machine	C. F. Harlow and E. E. Angell	349,844	Sept. 28	1807	467	36	1408
Sewing-machine	C. F. Harlow and E. E. Angell	351,594	Oct. 26	2170	561	37	416
Sewing-machine	W. L. Heberling	343,992	June 22	1746	449	35	1347
Sewing-machine	W. Houghtaling	333,947	Jan. 5	615	168	34	115
Sewing-machine	J. Kayser	343,036	June 1	363	94	35	1073
Sewing-machine	D. L. Keeler	334,442	Jan. 19	1344	364	34	264
Sewing-machine	T. Lamb	335,365	Feb. 2	392	101	34	512
Sewing-machine	R. S. Looker	349,438	Sept. 21	1234	320, 321	36	1289
Sewing-machine	R. S. Looker	349,439	Sept. 21	1238	321	36	1290
Sewing-machine	F. W. Merrick	343,383	June 8	913	228, 229	35	1180
Sewing-machine	L. Muther	344,493	June 29	2449	629	35	1480
Sewing-machine	J. B. Price	339,113	Mar. 30	3077	814	34	1504
Sewing-machine	J. W. Ramsden and H. S. Ellis	348,474	Aug. 31	2841	764, 765, 766	36	1023
Sewing-machine	A. C. Sabey	353,381	Nov. 30	2310	617, 618	37	922
Sewing-machine	O. L. Schastey	351,939	Nov. 2	309	86	37	514
Sewing-machine	W. Walker	353,720	Dec. 7	101	27	37	1025
Sewing-machine	W. H. Waterman	336,607	Feb. 23	2171	568	34	846
Sewing-machine	A. Wedermann	340,178	Apr. 20	1550	391	35	289
Sewing-machine	C. H. Willcox and J. E. A. Gibbs	354,589	Dec. 21	1367	362, 363, 364	37	1269
Sewing-machine	E. Woodward	354,499	Dec. 14	1228	329, 330	37	1237
Sewing-machine and work-holding frame for stitching the insoles of shoes. Combined	E. Meise	343,669	June 15	1308	328	35	1257
Sewing-machine attachment	E. S. Harris	334,118	Jan. 12	868	238	34	168
Sewing-machine attachments. Feed mechanism for button-hole	W. H. Gilbert	339,985	Apr. 13	1269	316, 317	35	233
Sewing-machine. Automatic tension	A. A. Bouton	344,765	June 29	2807	727	35	1546
Sewing-machine bobbin	C. M. and A. V. Abercrombie	347,678	Aug. 17	1704	455	36	796
Sewing-machine bobbin-case	G. M. Morris	339,069	Mar. 30	3011	796	34	1492
Sewing-machine bobbin inserting and ejecting attachment.	C. Miehling	351,992	Nov. 2	387	105	37	530
Sewing-machine bobbin-winder	H. Lefeber	351,113	Oct. 19	1453	380	37	278
Sewing-machine bobbin-winder	W. H. Reynolds	348,638	Sept. 7	145	41	36	1074
Sewing machine. Book-	A. Brehmer	335,210	Feb. 2	177	46, 47, 48	34	472
Sewing machine. Book-	R. Frank	334,945	Jan. 26	2015	537, 538	34	395
Sewing machine. Book-	C. A. Lieb	351,328	Oct. 19	1736	456, 457	37	329
Sewing machine. Book-	D. M. Smyth	338,001	Mar. 16	1521	394	34	1212
Sewing-machine. Boot and shoe	E. Adams	337,291	Mar. 2	552	145, 146	34	1028
Sewing-machine braider	N. P. Poor	341,943	May 18	1337	357	35	773
Sewing-machine brake	W. A. Otto and W. O. Zimmerman	354,516	Dec. 14	1257	336	37	1242
Sewing machine. Broom-	G. F. McCombs	338,999	Mar. 30	2909	771, 772	34	1476
Sewing-machine. Button-hole	T. F. Hagerty	335,029	Jan. 26	2134	568, 569	34	415
Sewing-machine. Button-hole	J. W. Lufkin	337,273	Mar. 2	525	136, 137, 138	34	1023
Sewing-machine. Button-hole	E. B. Moore and G. Rehfuss	349,445	Sept. 21	1246	323, 324	36	1292

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Sewing-machine. Button-hole	E. M. Phelps	344,678	June 29	2693	699	35	1527
Sewing-machine. Button-hole	W. Raeuchle	341,168	May 4	274	78	35	555
Sewing-machine. Button-hole	J. Reece	349,359	Sept. 21	1122	289, 290	36	1268
Sewing-machine button-hole attachment	E. O. Bennett	342,418	May 25	2020	532, 533	35	904
Sewing-machine button-hole attachment	J. W. Blodgett	342,321	May 25	1873	496	35	880
Sewing-machine button-hole attachment	J. G. Greene and P. Diehl	335,125	Feb. 2	34	10	34	447
Sewing-machine button-hole attachment	J. M. Griest	335,126	Feb. 2	37	11	34	447
Sewing-machine button-hole attachment	J. K. Harris	340,715	Apr. 27	2314	609	35	432
Sewing-machine button-hole attachment	J. H. Palmer	335,836	Feb. 9	1059	280	34	638
Sewing-machine button-hole attachment	W. Schott	336,165	Feb. 16	1545	407, 408	34	728
Sewing-machine button-hole attachment	W. Schott	348,640	Sept. 7	146	41	36	1074
Sewing-machine button holding and feeding attachment.	H. H. Cummings	334,752	Jan. 26	1780	473	34	351
Sewing-machine cabinet	G. Range	349,176	Sept. 14	877	224, 225	36	1212
Sewing-machine cording and boning attachment	E. D. Weyburn	338,454	Mar. 23	2133	558	34	1333
Sewing-machine cover	N. A. Hull	342,515	May 25	2167	574	35	930
Sewing-machine covers. Fastener for	P. Diehl	340,991	May 4	29	8	35	511
Sewing-machine driving mechanism	C. T. Jones	336,648	Feb. 23	2237	583	34	856
Sewing-machine embroidering attachment	F. H. Chilton	342,183	May 18	1655	442	35	832
Sewing-machine feed mechanism	G. W. Birchall	336,786	Feb. 23	2422	687	34	893
Sewing-machine feed mechanism	J. A. Davis	353,257	Nov. 23	2131	572	37	884
Sewing-machine feed mechanism	A. de Beaumont and S. Snellenburg	352,231	Nov. 9	744	200	37	603
Sewing-machine feed mechanism	R. H. St. John	343,929	June 15	1653	423, 424	35	1323
Sewing-machine feed mechanism	C. H. Willcox and J. E. A. Gibbs	354,590	Dec. 21	1377	365	37	1270
Sewing-machine feeding device	T. Lamb	338,420	Mar. 23	2088	547	34	1325
Sewing-machine feeding mechanism	A. Boecher	345,948	July 20	1646	424	36	308
Sewing-machine feeding mechanism	D. H. Coles	335,018	Jan. 26	2116	564	34	413
Sewing-machine feeding mechanism	P. Diehl	339,624	Apr. 13	777	192	35	143
Sewing-machine feeding mechanism	H. W. Hadley and W. L. Grout	345,684	July 20	1276	330, 331	36	242
Sewing-machine feeding mechanism	C. F. Harlow and E. E. Angell	351,051	Oct. 19	1372	360	37	263
Sewing-machine gage	H. C. Curtis	334,218	Jan. 12	1029	274	34	199
Sewing-machine guide	W. L. Dixon	353,258	Nov. 23	2131	573	37	884
Sewing-machine hemmer	B. M. Gunston	351,762	Nov. 2	45	13	37	467
Sewing-machine hemstitching and cording attachment	J. Pusey	338,614	Mar. 23	2345	612	34	1369
Sewing-machine looper	J. M. Curry	339,743	Apr. 13	952	234	35	173
Sewing-machine-motor attachment	W. H. Clayton and B. L. Embry	343,887	June 15	1605	408	35	1313
Sewing-machine. Multiple	L. Eschner	340,497	Apr. 20	2000	514	35	372
Sewing-machine needle-bar cover	W. Carr	347,089	Aug. 10	853	226	36	629
Sewing-machine needle-holder	W. L. Pross	350,730	Oct. 12	890	238	37	169
Sewing-machine needles. Machine for grooving	W. H. Dayton	351,900	Nov. 2	239	67, 68	37	502
Sewing-machine. Over-edge	W. Webster	346,248	July 27	2067	531	36	397
Sewing-machine plaiting attachment	G. J. Couchois	354,101	Dec. 14	658	177	37	1135
Sewing-machine plaiting attachment	C. B. Parelius	350,552	Oct. 12	632	174	37	122
Sewing-machine. Pocket	S. A. Rosenthal	353,970	Dec. 7	466	126, 127	37	1091
Sewing-machine presser-foot	T. M. Conpropst	338,163	Mar. 16	1732	452	34	1253
Sewing-machine presser-foot	F. W. Müller	346,601	Aug. 3	192	51	36	497
Sewing-machine quilting attachment	T. A. Hill and J. Peelle	338,154	Mar. 16	1721	449	34	1251
Sewing-machine quilting-frame	H. T. Davis	334,646	Jan. 19	1632	435	34	316
Sewing-machine quilting-frame	A. Fay	342,292	May 18	1825	482	35	861
Sewing-machine ruffling attachment	H. C. Goodrich	333,515	Jan. 5	27	8	34	8
Sewing-machine ruffling attachment	H. C. Goodrich	333,516	Jan. 5	29	8	34	8
Sewing-machine ruffling attachment	W. R. Parsons	354,577	Dec. 21	1351	358	37	1266
Sewing-machine shuttle	P. Diehl	337,818	Mar. 16	1262	327	34	1165
Sewing-machine shuttle	H. W. Hadley and W. L. Grout	345,682	July 20	1274	330	36	242
Sewing-machine shuttle	W. L. Heberling	346,281	July 27	2108	542	36	404
Sewing-machine shuttle	J. B. Price	339,112	Mar. 30	3076	814	34	1503
Sewing-machine shuttle and bobbin	M. Ransom	353,588	Nov. 30	2623	700	37	981
Sewing-machine-shuttle bobbins. Machine for winding	H. A. Behn	345,208	July 6	559	143	36	101
Sewing-machine shuttle-carrying mechanism	D. H. Coles	335,017	Jan. 26	2 5	563, 564	34	412
Sewing-machine spool-holder	H. Meyers	337,852	Mar. 16	1303	338	34	1173
Sewing-machine stand	J. C. Cochran	337,381	Mar. 9	671	176	34	1056
Sewing-machine stand	D. W. Goodell	348,004	Aug. 24	2173	578	36	889
Sewing-machine. Straw-braid	C. H. Palmer	345,801	July 20	1442	373, 374	36	272
Sewing-machine. Straw-braid	C. H. Palmer	345,802	July 29	1444	374, 375	36	272
Sewing-machine. Sweat-band	J. A. Brautigam	336,204	Feb. 16	1610	421, 422	34	740
Sewing-machine table	E. Laufer	347,358	Aug. 17	1233	328	36	708
Sewing-machine table-frame and treadle	J. E. Donovan	334,521	Jan. 19	1459	392	34	284
Sewing-machine take-up	I. Bihl and C. Platt	349,029	Sept. 14	676	174	36	1175
Sewing-machine take-up mechanism	H. W. Hadley and W. L. Grout	345,683	July 20	1275	330	36	242
Sewing-machine tension	R. H. St. John	336,827	Feb. 23	2475	651	34	902
Sewing-machine tension device	P. Diehl	339,623	Apr. 13	775	192	35	143
Sewing-machine tension device	P. Diehl	347,777	Aug. 24	1843	491	36	889
Sewing-machine tension-release	R. W. Whitney	344,429	June 29	2364	609	35	1465
Sewing-machine thread-controlling mechanism	W. F. Beardslee	333,586	Jan. 5	120	33	34	25
Sewing-machine treadle	C. W. Smart	347,836	Aug. 24	1931	512	36	847
Sewing-machine trimmer	R. W. Whitney	350,514	Oct. 12	583	162	37	113
Sewing-machine trimming attachment	J. W. Eastwood	334,114	Jan. 12	864	237	34	168
Sewing-machine trimming attachment	G. H. Noble	334,718	Jan. 19	1731	461, 462	34	334
Sewing-machine trimming attachment	C. H. Willcox	348,485	Aug. 31	2857	769	36	1026
Sewing-machine tuck-folder	W. Matthews	333,877	Jan. 5	518	141	34	97

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Invention.	Name	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sewing-machine tucking attachment	G. J. Couchois	354,100	Dec. 14	654	177	37	1134
Sewing-machine. Wax-thread	J. A. Davis	353,252	Nov. 23	2124	569 570	37	882
Sewing-machine welt-guide	W. Aiken	334,404	Jan. 19	1297	351	34	235
Sewing-machines. Adjustable oscillating needle-clamp for	R. S. Looker	349,441	Sept. 21	1241	321	36	1290
Sewing-machines. Binding attachment for	N. P. Poor	338,774	Mar. 30	2595	683	34	1419
Sewing-machines. Binding-guide for	J. Busacker	350,113	Oct. 5	23	6, 7	37	8
Sewing-machines. Blind-stitching attachment for	F. B. Almy	343,418	June 8	959	239	35	1189
Sewing-machines. Button-hole attachment for	W. Schott	351,892	Nov. 2	101	28, 29	37	477
Sewing-machines. Button-hole-cutting and cloth-clamp attachment for	F. E. Schmidt	354,247	Dec. 14	881	233	37	1174
Sewing-machines. Button-hole-sewing attachment for	F. W. Smith, Jr., and S. S. Williamson.	347,133	Aug. 10	906	241	36	640
Sewing-machines. Carpet-rag attachment for	C. W. Chamberlin	344,348	June 29	2251	578	35	1443
Sewing-machines. Clamp for button-hole	J. G. Greene	339,640	Apr. 13	805	198	35	148
Sewing-machines. Combined adjustable presser-foot and gage for	C. F. Harlow and E. E. Angell	350,740	Oct. 12	902	242	37	171
Sewing-machines. Combined ruffler and piping attachment for	E. C. Reese	339,693	Apr. 13	886	217	35	162
Sewing machines. Combined ruffler and scalloper for	J. P. Lavigne	343,463	June 8	1029	256	35	1200
Sewing-machines. Cutting mechanism for button-hole	J. G. Greene	351,760	Nov. 2	43	12	37	467
Sewing-machines. Device for controlling the driving-wheels of	D. W. Goodell	354,055	Dec. 7	587	160	37	1113
Sewing-machines. Electric motor for	E. Recordon	353,003	Nov. 23	1769	476	37	813
Sewing-machines. Fan attachment for	F. Carter	338,925	Mar. 30	2802	739	34	1457
Sewing machines. Feeding mechanism for straw-braid.	F. Blackburn	344,239	June 22	2098	536	35	1409
Sewing-machines. Grinding attachment for	H. Abney	337,911	Mar. 16	1378	358	34	1187
Sewing-machines. Machine for winding bobbins for	O. Sorgan	336,168	Feb. 16	1549	408 409	34	739
Sewing-machines. Oscillating hook for	J. Vannett	336,456	Feb. 16	1971	516	34	804
Sewing-machines. Presser-foot for pearl-braid	J. A. Brautigam	347,465	Aug. 17	1387	369 370	36	736
Sewing-machines. Reverse-seamer for	W. F. Williams and V. H. Klinefelter	341,364	May 4	551	152	35	604
Sewing-machines. Rotary shuttle for	C. Junker	341,333	May 4	510	140	35	598
Sewing-machines. Ruffling and gathering attachment for	A. Johnston	349,379	Sept. 14	1010	258	36	1238
Sewing-machines. Spinning attachment for	S. Vanstrom	345,341	July 13	753	189	36	142
Sewing-machines. Spool-box for	R. S. Looker	349,440	Sept. 21	1240	321	36	1290
Sewing-machines. Spool-holder for	F. Neuhaus	349,446	Sept. 21	1250	324	36	1292
Sewing-machines. Take-up or thread-controlling mechanism for	J. Robertson	346,775	Aug. 3	399	110	36	539
Sewing-machines. Thread-waxing attachment for	W. Richardson and T. C. Baiter	354,237	Dec. 14	864	229	37	1171
Sewing-machines. Trimming device for	J. Bigelow	341,790	May 11	1128	298	35	725
Sewing-machines. Trimming device for	S. Borton	341,726	May 11	1050	278	35	711
Sewing-machines. Trimming device for	P. Diehl	348,113	Aug. 24	2325	623 624	36	919
Sewing-machines. Underbraider for	A. Johnston	341,485	May 11	714	192	35	645
Sewing-machines. Welt-guide for	J. Challoner, Sr.	338,928	Mar. 30	2806	740	34	1458
Sewing on buttons. Machine for	A. A. Brown and J. A. Larsh	340,536	Apr. 20	2055	528 529 530	35	382
Sewing on buttons. Machine for	J. S. Collins	350,453	Oct. 5	485	136 137	37	93
Sewing on buttons. Machine for	J. Mathison	336,880	Feb. 23	2550	671 672 673	34	917
Sewing on buttons. Machine for	J. Mathison	336,881	Feb. 23	2555	673 674	34	917
Sewing on buttons. Method of	A. A. Brown	354,532	Dec. 21	1286	343	37	1255
Sewing or embroidering machines. Feed-motion for	E. Cornely	336,554	Feb. 23	2100	552	34	834
Sewing shank-buttons to boots, &c. Machine for	R. Thompson	353,609	Nov. 30	2648	708 709	37	986
Sextant	H. Hutchins	354,602	Dec. 21	1394	369	37	1274
Shackle. Spring-	H. Timken	341,781	May 11	1117	266	35	724
Shade and paper exhibitor	J. M. Hadley	350,674	Oct. 12	815	221	37	155
Shade and reflector holder	A. F. and C. A. Vestal	335,788	Feb. 9	998	264	34	626
Shade, curtain, and lambrequin supporter. Combination	O. E. Enell	349,635	Sept. 21	1495	387	36	1342
Shade-fixture	B. Handforth	348,393	Aug. 31	2724	731	36	1001
Shade-hanger	J. W. and A. H. Greene	340,439	Apr. 20	1909	491	35	355
Shade-holder	G. W. McGill	343,481	June 8	1055	263	35	1205
Shade-holder	R. B. Perkins	339,923	Apr. 13	1187	295	35	218
Shade-holder	F. A. Stearns	351,717	Oct. 26	2333	618	37	447
Shade-roller bracket	L. P. Howell	341,382	May 4	576	159	35	610
Shade-roller. Spring	S. Hartshorn	335,449	Feb. 2	503	131	34	535
Shaft-bearing. Anti-friction	A. Giesler	348,392	Aug. 31	2723	731	36	1001
Shaft bearing. Vertical-	I. P. Lambing	347,431	Aug. 17	1328	354	36	726
Shaft-carrier	V. W. A. Richards	345,922	July 20	1609	415	36	303
Shaft-coupling	B. F. Applegate	349,678	Sept. 28	1555	403	36	1361
Shaft-coupling	G. F. Barker	355,052	Dec. 28	2054	534	37	1405
Shaft-coupling	J. S. Cook	355,062	Dec. 28	2044	537	37	1407
Shaft-coupling	C. S. Higgins, Jr	355,267	Dec. 28	2345	617	37	1467
Shaft-coupling	T. Leaman	350,631	Oct. 12	755	207	37	145
Shaft-coupling	J. Richards	334,547	Jan. 19	1497	401	34	290
Shaft-coupling	F. M. Roots	349,365	Sept. 21	1134	292	36	1271
Shaft. Cranked	D. A. Woodbury	344,930	July 6	187	47	36	35
Shaft for two-wheeled vehicles	W. L. Walker	346,624	Aug. 3	222	61	36	503
Shaft-governor. Automatic	E. Fawcett	349,215	Sept. 14	927	238	36	1222
Shaft-hanger	A. C. Pessano	335,839	Feb. 9	1063	281	34	638
Shaft-hanger attachment	J. Walker	342,485	May 25	2114	558	35	921

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Shaft-holder	G. J. Spenneberg	352,494	Nov. 9	1074	289	37	667
Shaft-reversing mechanism	E. C. Lewis	343,465	June 8	1034	257	35	1201
Shaft. Sleigh	L. F. Leibfried	342,521	May 25	2173	575	35	931
Shaft-support. Vehicle	F. P. Chamberlin	355,339	Feb. 2	358	93	34	505
Shaft-support. Vehicle	G. F. Slatter	336,531	Feb. 16	2066	543	34	821
Shaft-tip	W. B. Brooks	340,091	Apr. 20	1422	359	35	265
Shafts and axles. Roller-bearing for	J. Gibbons	336,103	Feb. 16	1448	381	34	713
Shafts. Anti-freezing box for turbine	B. F. and J. B. Beckwith and J. Burson	339,730	Apr. 13	934	229	35	170
Shafts. Device for adjusting	F. P. Sargent	349,005	Sept. 14	646	167	36	1169
Shafts. Device for regulating the movement of oscillating	R. White	353,191	Nov. 23	2051	547	37	868
Shafts. Device for taking up end-pressure of rotating	C. A. Johansson	335,757	Feb. 9	945	249	34	616
Shafts or elevators. Safety lock or catch for	C. C. Thomas	339,032	Mar. 30	2065	784	34	1485
Shafts. Regulator for revolving	J. H. Pendleton	345,394	July 13	829	208	36	154
Shafts. Stop mechanism for driving	F. M. Roots	349,362	Sept. 21	1131	291	36	1270
Shafts. Turning journals of crank	W. F. Hogan	339,776	Apr. 13	998	246	35	182
Shaking apparatus	C. Collins	350,811	Oct. 12	1007	269	37	190
Shaping-tool	W. P. Barclay	349,475	Sept. 21	1289	335	36	1301
Shaving apparatus	A. Partridge	348,576	Sept. 7	60	18	36	1058
Shaving-cup	P. Forchheimer	345,295	July 13	693	174	36	130
Shaving-cup	J. S. Goldsmith	348,160	Aug. 24	2393	642	36	931
Shawl and bundle carrier	E. Buchholz	347,415	Aug. 17	1309	349	36	722
Shawl-strap	J. B. Perkins	349,899	Sept. 28	1872	484	36	1421
Shawl-strap handle	I. Scheuer	347,201	Aug. 10	1002	267	36	658
Shearing machine. Metal	C. Wais	353,041	Nov. 23	1831	492	37	823
Shearing table. Sheep	C. B. and J. B. Phelps	352,262	Nov. 9	786	210	37	610
Shears: *See* Animal-shears. Blacksmith's shears. Culling-shears. Fruit-gathering shears. Hydraulic shears. Metal-shears. Parturition-shears. Pruning-shears. Sheep-shears. Squaring-shears.							
Shears	A. M. Barnett	337,917	Mar. 16	1388	361	34	1189
Shears	F. E. French	338,346	Mar. 23	1981	522	34	1306
Shears	L. A. Nickerson	338,326	Mar. 23	1894	498	34	1291
Shears	G. W. Orahood	342,380	May 25	1966	519	35	895
Shears	L. L. Sagendorph	355,103	Dec. 28	2108	554	37	1420
Shears. Clutching device for metal	R. W. Bailey	350,713	Oct. 12	866	233	37	165
Shears. Die for making	I. Harris	352,409	Nov. 9	973	261, 262	37	648
Shed construction	C. Golde	335,577	Feb. 9	688	181, 182	34	570
Sheep-protector	W. L. Lewis	340,332	Apr. 20	1774	453	35	330
Sheep-shearing rack	G. W. Finlay	341,377	May 4	570	157	35	608
Sheep-shears	R. M. Bills and A. S. Hamilton	354,378	Dec. 14	1065	285	37	1208
Sheep-shears	H. and G. H. Kimbler	347,878	Aug. 24	1992	528	36	856
Sheep-shears	A. J. Lytle	340,053	Apr. 13	1366	342	35	250
Sheet-delivery apparatus	L. C. Crowell	339,532	Apr. 6	610	149, 150	35	111
Sheet-delivery apparatus	G. P. Fenner	345,222	July 6	578	147, 148	36	105
Sheet-delivery mechanism	L. C. Crowell	339,531	Apr. 6	603	146, 147, 148, 149	35	111
Sheet-metal articles. Drawing	A. W. Paull and G. F. Butters	344,457	June 29	2393	616, 617	35	1470
Sheet-metal articles. Drawing	A. W. Paull and G. F. Butters	344,458	June 29	2394	617	35	1471
Sheet-metal articles. Drawing	A. W. Paull and G. F. Butters	344,459	June 29	2395	617, 618	35	1471
Sheet-metal articles. Machine for drawing	G. F. Butters	353,439	Nov. 30	2400	640, 641	37	940
Sheet-metal-bending machine	W. J. Bayrer	339,729	Apr. 13	933	229	35	170
Sheet-metal by electro-deposition. Apparatus for forming	M. G. Farmer	335,905	Feb. 9	1165	310	34	656
Sheet-metal can	W. S. Dyer	348,551	Sept. 7	13	4	36	1051
Sheet-metal can	W. Hipperling	353,945	Jan. 5	613	167	34	115
Sheet-metal can	A. Schmitz	342,044	May 18	1470	394	35	797
Sheet-metal cans. Machine for heading	W. H. H. Stevenson	349,373	Sept. 21	1118	296, 297	36	1273
Sheet-metal cleaning, washing, and drying machine	W. Wakely	352,986	Nov. 23	1744	467	37	808
Sheet metal. Cutting V-shaped slots in	C. T. Mason, Jr	354,202	Dec. 14	819	217	37	1163
Sheet metal. Device for packing and protecting	B. F. Caldwell	350,344	Oct. 5	326	93	37	66
Sheet metal. Drawing	A. W. Paull and G. F. Butters	343,390	June 8	922	231	35	1182
Sheet metal. Drawing corrugated cups of	A. W. Paull	353,426	Nov. 30	2382	635, 636	37	936
Sheet-metal expansible elbow	D. A. Ritchie	342,465	May 25	2086	550	35	917
Sheet-metal-folding machine	C. Brombacher	351,490	Oct. 26	2012	522	37	385
Sheet-metal goods. Press for the manufacture of	M. Lepage	333,871	Jan. 5	512	140	34	95
Sheet-metal-grooving machine. Power	C. R. Peaslee	348,577	Sept. 7	61	18	36	1058
Sheet metal. Machine for corrugating	L. L. Sagendorph	342,387	May 25	1976	521, 522	35	896
Sheet metal. Machine for cutting	L. Z. Everest	352,683	Nov. 16	1335	360, 361	37	732
Sheet metal. Machine for scouring and drying	F. J. Wooster	334,209	Jan. 12	1019	271	34	197
Sheet metal. Manufacturing colored relief-impressions on	F. Priester and O. Weidemann	351,125	Oct. 19	1467	384	37	281
Sheet-metal pipe	F. Markoe	340,800	Apr. 27	2431	640	35	455
Sheet-metal pipe	D. A. Ritchie	338,877	Mar. 30	2234	719	34	1414
Sheet-metal pipe. Making	J. E. Leadley	340,330	Apr. 20	1772	452	35	330
Sheet-metal pipes. Machine for making threads on	F. F. Voigt	335,737	Feb. 9	904	238	34	609

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sheet-metal-scroll cutter	A. O. Kittredge and F. M. Leavitt	349,722	Sept. 28	1635	422, 423	36	1374
Sheet-metal vessels. Machine for wiring the edges of	D. James	348,396	Aug. 31	2727	732	36	1001
Sheet-reversing apparatus	L. C. Crowell	344,352	June 29	2259	579, 580	35	1445
Shelf-bracket	J. H. Bacon	350,031	Sept. 28	2050	529	36	1453
Shell	W. Kennish	333,955	Jan. 5	626	171	34	118
Shell	F. Pope	348,340	Aug. 31	2650	714	36	987
Shell and making the same	G. F. Simonds	348,788	Sept. 7	338	90	36	1110
Shell. Armor-piercing	G. F. Simonds	348,789	Sept. 7	339	91	36	1110
Shell for detonating caps	G. Bloem	342,423	May 25	2031	536	35	906
Shell. Percussion	E. Butler	340,935	Apr. 27	2605	686	35	486
Shells. Machine for drawing metallic	J. S. Palmer	342,840	June 1	91	23	35	1023
Shells or hollow articles. Die for drawing	R. White	346,522	Aug. 3		25	36	478
Sheller: *See* Corn-sheller.							
Shelving. Adjustable	G. R. Jackson	340,949	Apr. 27	2625	691	35	489
Shelving and counter. Portable	D. W. McElroy	334,267	Jan. 12	1113	298	34	214
Shelving. Show-window	W. Oswell	349,117	Sept. 14	803	204	36	1198
Shield. Cashier's	O. S. Scott	341,775	May 11	1111	294	35	723
Shifting apparatus	J. A. Potter	350,444	Oct. 5	468	132, 133	37	90
Shingle	R. C. Snowden	339,945	Apr. 13	1213	302	35	223
Shingle-machines. Feed mechanism for	W. L. Purves	339,808	Apr. 13	1032	256	35	189
Shingle-machines for edging shingles. Attachment for	J. N. Sears	335,635	Feb. 9	769	204	34	585
Shingle. Metallic	M. G. Farmer	347,928	Aug. 24	2066	548	36	871
Shingle. Metallic	J. B. Hoagland	349,095	Sept. 14	774	197	36	1192
Shingle. Metallic	A. N. Montrose	336,733	Feb. 23	2351	615	34	879
Shingle. Metallic	E. Van Noorden	341,188	May 4	300	85	35	560
Shingle-sawing machine	G. E. Cooke	342,067	May 18	1509	403, 404	35	804
Shingle-sawing machine	F. M. Hanks and H. N. Sibley	355,077	Dec. 28	2067	543	37	1411
Shingle-sawing machine	I. M. House	346,369	July 27	2227	571, 572	36	426
Shingle-sawing machine	W. J. Perkins	342,534	May 25	2187	579	35	934
Shingle-sawing machine	W. J. Perkins	348,050	Aug. 24	2229	596, 597, 598	36	900
Shingle-sawing machines. Carriage for	W. J. Perkins	350,767	Oct. 12	936	252	37	178
Shingles. Machine for cutting	A. B. Ireland	342,017	May 18	1430	384, 385	35	789
Shingles. Metallic corner-binding for	W. H. Prentice	349,662	Sept. 21	1527	394	36	1349
Shingling-bracket	D. T. Leggett and W. S. Sanders	336,727	Feb. 23	2344	614	34	878
Shingling-bracket	W. A. Sharpe and J. A. Crenshaw	341,950	May 18	1343	360	35	774
Shingling-bracket	W. H. Smerdon	342,649	May 25	2345	619	35	964
Shingling-bracket	F. Specht	341,178	May 4	289	82	35	557
Shingling-bracket	G. H. Warren and E. C. Richmond	348,705	Sept. 7	238	63	36	1091
Shingling-seat	C. B. Hucstis	354,703	Dec. 21	1543	408	37	1301
Ship	A. Marty	346,311	July 27	2011	519	36	385
Ships. Apparatus for bending the ribs or frames of metallic	W. M. Bailey	337,113	Mar. 2	306	81	34	983
Ships, &c. Construction of	W. H. Daniels	352,807	Nov. 16	1496	404	37	753
Ships from sinking. Apparatus for preventing	J. F. Frisbie	351,971	Nov. 2	351	97	37	524
Ships' hulls. Implement for brushing and scraping	C. G. Cross	333,503	Jan. 5	9	4	34	5
Ship's log	T. F. Walker	351,140	Oct. 19	1487	390	37	285
Shipping-bag. Safety	G. H. Magee	353,692	Dec. 7	53	14	37	1016
Shipping-can	A. O. Fitz Gerald	345,223	July 6	581	148	36	105
Shipping-can	A. O. Fitz Gerald	345,224	July 6	582	148	36	106
Shipping-can	F. Westerbeck	351,010	Oct. 19	1315	345	37	253
Shipping-case	W. G. Ruggles	348,171	Aug. 24	2410	646	36	934
Shipping-cases. Cover-fastening for	J. B. Thompson	349,863	Sept. 28	1829	472	36	1412
Shipping-cases. Fastener for	W. G. Bond	344,473	June 29	2418	622	35	1474
Shipping-package	A. R. Searles	351,208	Oct. 19	1579	415	37	303
Shirt	F. Beiermeister, Jr	354,375	Dec. 14	1062	248	37	1208
Shirt	M. Blau	337,553	Mar. 9	928	237	34	1099
Shirt	S. Butz	335,505	Feb. 2	578	151	34	544
Shirt	S. Butz	343,006	June 1	314	81	35	1064
Shirt	G. A. Gane	353,934	Dec. 7	405	109	37	1081
Shirt	W. A. Harder	353,746	Dec. 7	131	36	37	1031
Shirt	F. Jacoby	353,607	Nov. 23	1867	504	37	831
Shirt	I. B. Keller	341,017	May 4	60	16	35	517
Shirt	E. A. Krones	337,341	Mar. 2	616	161	34	1040
Shirt	J. Lederer	341,153	May 4	250	74	35	551
Shirt	S. Mendelsohn	350,070	Sept. 28	2108	545	36	1464
Shirt	J. Schlesinger	344,548	June 29	2534	654	35	1495
Shirt and lacing. Combined	A. Hepner	352,321	Nov. 9	865	233	37	625
Shirt and vest. Combined	W. K. Randolph	340,356	Apr. 20	1816	466	35	338
Shirt board or hanger	E. W. Carter	336,290	Feb. 16	1749	457	34	762
Shirt-bodies. Securing bosoms to	C. J. Coyle	337,383	Mar. 9	674	176, 177	34	1057
Shirt-bodies. Securing bosoms to	W. L. Hall	336,106	Feb. 16	1452	382, 383	34	713
Shirt-bodies. Securing bosoms to	W. H. Paul	349,283	Sept. 14	1015	259	36	1239
Shirt bosom and neckband ironer	C. A. Fuller	351,757	Nov. 2	40	11	37	466
Shirt-dickey	J. H. Simonson	338,563	Mar. 23	2275	597	34	1357
Shirt-waist	L. S. Cox	344,251	June 22	2112	540	35	1412
Shirts. Making	A. Borchardt	351,827	Nov. 2	133	37	37	483
Shoddy-purifier	E. M. Hulse	334,776	Jan. 26	1809	481	34	357
Shoddy-purifier	E. M. Hulse	334,777	Jan. 26	1810	481	34	357
Shoe	J. Blum	349,562	Sept. 21	1405	363	36	1324
Shoe	S. C. K. Böhm	340,547	Apr. 27	2078	536	35	393
Shoe	C. H. Buchanan	334,561	Jan. 19	1517	406	34	293
Shoe	J. H. Cosart	336,214	Feb. 16	1628	425	34	743

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Shoe	A. T. Cushing	354,968	Dec. 28	1913	505	37	1384
Shoe	P. Dicket and A. Hendrickson	346,539	Aug. 3	362	97	36	531
Shoe	C. J. Dunn and G. F. Cain	343,573	June 15	1186	298	35	1236
Shoe	T. R. Evans	338,144	Mar. 16	1706	444	34	1248
Shoe	C. H. H. Gilbert	351,591	Oct. 26	2167	560	37	415
Shoe	E. Lunt	340,052	Apr. 13	1365	342	35	250
Shoe	W. F. Maurer	343,047	June 1	986	98	35	1076
Shoe	F. I. Schwendeman	339,481	Apr. 6	532	129	35	99
Shoe	S. C. Tribou	334,398	Jan. 12	1279	345	34	244
Shoe	G. A. Weld	343,410	June 8	951	238	35	1187
Shoe and leggin. Rubber	F. T. Welton	342,152	May 18	1618	433	35	826
Shoe and stocking. Combined	S. Rauh	347,442	Aug. 17	1358	361	36	730
Shoe. Bicycle	T. J. Strickland	350,705	Oct. 12	855	230	37	163
Shoe-blanks. Machine for arranging	Z. M. Lane	338,277	Mar. 23	1887	495, 496	34	1289
Shoe. Button	O. D. Randall	340,924	Apr. 27	2591	683	35	483
Shoe-clasp	D. F. Dalton	345,622	July 13	1167	300	36	217
Shoe-clasp	J. C. Hammond, Jr., and T. E. King	334,434	Jan. 19	1336	362	34	262
Shoe-clasp	T. E. King	341,421	May 4	625	171	35	618
Shoe-clasp	T. E. King	341,422	May 4	626	171	35	618
Shoe-clasp	T. E. King and J. C. Hammond	351,035	Oct. 19	1347	354	37	259
Shoe-clasps. Catch-plate for	S. A. Chapman	346,983	Aug. 10	686	182	36	600
Shoe-clasps. Catch-plate for	H. S. Pullman	346,945	Aug. 10	640	171	36	591
Shoe-clasps. Clasp-plate for	J. J. Unbehend	339,603	Apr. 6	742	182	35	130
Shoe-fastener	S. S. Knapp and E. Browne	355,092	Dec. 28	2095	550	37	1417
Shoe fastener or clasp	J. Jackle	353,635	Nov. 30	2695	720	37	994
Shoe-fastening	A. O. Carman	339,146	Apr. 6	43	14	35	11
Shoe-fastening	W. H. Dillon	338,044	Mar. 16	1573	410	34	1221
Shoe-fastening	J. Everding and A. v. Olszewski	348,737	Sept. 7	263	70	36	1096
Shoe-fastening	J. T. Honeycutt	351,053	Oct. 19	1374	360	37	263
Shoe-fastening	W. M. Maxson	346,1[illegible]9	July 27	1872	483	36	359
Shoe-fastening	J. T. Senteney	347,[illegible]34	Aug. 17	1466	389	36	751
Shoe. Felt	W. P. Hyatt	347,111	Aug. 10	880	233	36	635
Shoe-gore	J. E. Treat	351,[illegible]17	Nov. 2	123	34	37	481
Shoe-heel	I. Sommerfield	349,862	Sept. 28	1828	472	36	1412
Shoe-heeling machine	C. W. Thomsen	354,271	Dec. 14	924	244	37	1181
Shoe-knife	W. L. Van Meter	354,275	Dec. 14	931	245	37	1182
Shoe-lace fastening	F. B. Comins	340,557	Apr. 27	2094	540	35	396
Shoe-legs. Machine for treeing	C. B. Hatfield	354,189	Dec. 14	892	213	37	1160
Shoe. Low-cut or Oxford	E. W. Hayes	355,965	Dec. 28	2342	616	37	1466
Shoe-maker's jack	A. Jefferys	350,137	Oct. 5	52	14, 15	37	12
Shoe-maker's jack	G. M. Wells	344,230	June 22	2086	533	35	1407
Shoe-maker's knife	W. L. Van Meter	342,985	June 1	289	75	35	1059
Shoe-maker's threads. Device for tapering the ends of	C. K. Bradford	349,564	Sept. 21	1408	364	36	1324
Shoe-maker's tool	E. D. Beales	339,520	Apr. 6	588	142	35	108
Shoe. Moccasin	D. Dudley	353,295	Nov. 30	2194	587	37	901
Shoe-nail	O. R. Chaplin	335,563	Feb. 9	666	175	34	566
Shoe-nail	D. O. Clark	337,814	Mar. 16	1257	326	34	1164
Shoe-nail	F. F. Raymond, 2d	344,136	June 22	1955	499	35	1384
Shoe-nailing machine	O. R. Chaplin	343,363	June 8	876	221, 222	35	1174
Shoe-nailing machine	W. McCrum and R. F. Bruce	343,915	June 15	1637	419, 420	35	1320
Shoe or boot	E. I. Brown	342,679	May 25	2388	631	35	972
Shoe or boot	C. H. Fretz	354,832	Dec. 21	1721	456	37	1336
Shoe or gaiter-boot	G. A. Langmaid	349,164	Sept. 14	863	221	36	1210
Shoe. Rubber	W. H. Amos	351,305	Oct. 19	1710	449	37	325
Shoe. Rubber	R. E. Cannon	351,572	Oct. 26	2129	551	37	409
Shoe. Rubber	W. A. Macleod	352,199	Nov. 9	707	189	37	596
Shoe. Seamless	A. Graff	336,913	Mar. 2	47	12	34	935
Shoe-shank. Metallic	J. Atherton	346,572	Aug. 3	152	42	36	489
Shoe-shanks from the forming-machine. Device for conveying	H. H. Jenkins	341,914	May 18	1303	348	35	767
Shoe-soles. Machine for shaping	O. F. Knox	347,050	Aug. 10	786	209	36	618
Shoe-soles to uppers. Uniting	A. Eppler, Jr., and A. E. Cole	354,051	Dec. 7	581	157	37	1111
Shoe. Spring	J. Glucksmann	337,146	Mar. 2	352	91	34	991
Shoe-stay	S. C. Belknap	346,458	Aug. 3	10	3	36	462
Shoe-stretcher	G. I. Mounce	343,914	June 15	1637	418	35	1320
Shoe-string fastening	W. P. Orne	352,064	Nov. 2	484	131	37	550
Shoe-upper	J. R. Phillips	351,066	Oct. 19	1387	364	37	266
Shoe upper. Balmoral	P. and J. Kelly	351,778	Nov. 2	67	18	37	471
Shoe-upper-splitting machine	G. W. Sleeper	350,084	Sept. 28	2128	550, 551	36	1468
Shoe-uppers. Machine for beading	Q. W. Booth	344,435	June 29	2371	610	35	1466
Shoe-uppers. Machine for beading	C. B. Hatfield	334,376	Jan. 12	1251	337, 338	34	239
Shoe-uppers. Machine for beading	C. B. Hatfield	354,188	Dec. 14	801	213	37	1159
Shoe-uppers. Turning-iron for	C. B. Hatfield	354,190	Dec. 14	804	214	37	1160
Shoe-vamps. Machine for marking	L. Côté	348,514	Aug. 31	2903	780	36	1034
Shoes and slippers. Manufacture of	C. H. Buchanan	334,562	Jan. 19	1518	406	34	294
Shoes. Attachment for rubber	P. L. Ross	347,066	Aug. 10	818	218	36	624
Shoes, &c. Fastener for	A. Nolte	337,783	Mar. 9	1204	313	34	1148
Shoes, gloves, &c. Fastener for	F. F. Meeker	342,372	May 25	1857	517	35	894
Shoes, gloves, &c. Fastening for	I. Fox and G. E. Holle	352,532	Nov. 16	1121	303	37	684
Shoes. Lace-fastening for	C. A. Sullivan	354,874	Dec. 21	1780	469	37	1347
Shoes. Machine for slitting and preparing soles for turned	W. Wickersham	342,890	June 1	161	41, 42	35	1035
Shoes. Method of and apparatus for forming bottoms of rubber	M. W. Whitney	337,467	Mar. 9	818	207	34	1080
Shoes or other wearing apparel. Clasp for	J. Holley	339,179	Apr. 6	83	24	35	18
Shoes. Safety-strap for rubber or other	O. G. King	338,981	Mar. 30	2873	760	34	1470
Shoes, slippers, &c. Water-proof composition for felt	J. and C. H. Feldmann and D. Dunbar	346,159	July 27	1925	.....	36	369

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Shook-binder	F. A. Emerick	348,197	Aug. 31	2459	660	36	949
Shot and powder charger	W. S. Capewell	346,718	Aug. 3	339	92	36	527
Shot. Canister	J. W. Johns	341,245	May 4	383	106	35	576
Shot-case. Revolving	F. Stearns and G. L. Wells	353,091	Nov. 23	1003	511	37	838
Shot-concentrator	H. E. Winans and G. N. Wooden	336,680	Feb. 23	2289	598	34	867
Shoulder-brace and bust-supporter	A. E. Stout	342,309	May 18	1846	488	35	866
Shovel: *See* Cultivator-shovel. Snow-shovel. Fire-shovel. Wooden shovel.							
Shovel	J. W. Calef	339,527	Apr. 6	595	144	35	109
Shovel	H. C. Cole	352,224	Nov. 9	737	197	37	601
Shovel	W. C. Gregg	348,161	Aug. 24	2394	642	36	932
Shovel	H. M. Myers	340,602	Apr. 27	2155	563, 564	35	407
Shovel-blade. Detachable	Z. H. Smith	348,794	Sept. 7	343	93	36	1111
Shovel-blank	H. M. Myers	340,603	Apr. 27	2156	564	35	407
Shovel-blanks. Bar for making	H. M. Myers	340,607	Apr. 27	2161	567	35	407
Shovel-blanks. Machine for cutting	H. M. Myers	354,170	Dec. 14	769	206	37	1153
Shovel-blanks. Machine for forming	H. M. Myers	340,954	Apr. 27	2630	693	35	490
Shovel-blanks. Machine for splitting the tangs and forming the sockets of	H. M. Myers	348,037	Aug. 24	2214	591, 592	36	898
Shovel or spade handle. Auxiliary	M. L. Wilson, W. and P. O. Sanders	344,890	July 6	136	34	36	24
Shovels. Bar for making	H. M. Myers	340,608	Apr. 27	2162	567, 568	35	407
Shovels. Blank for plain-back	H. M. Myers	340,605	Apr. 27	2158	565	35	407
Shovels, &c. Machine for rolling blanks for	H. M. Myers	340,953	Apr. 27	2630	692, 693	35	490
Shovels. Making	H. M. Myers	340,604	Apr. 27	2157	564	35	407
Shovels. Making	H. M. Myers	353,372	Nov. 30	2297	613, 614	37	920
Shovels. Manufacture of	J. M. W. Long and J. B. Fischer	350,067	Sept. 28	2104	544	36	1464
Shovels. Manufacturing	H. M. Myers	340,597	Apr. 27	2147	555, 556, 557	35	406
Shovels. Plant for manufacturing	H. M. Myers	340,600	Apr. 27	2152	500, 501, 502	35	406
Shovels. Plant for the manufacture of	H. M. Myers	340,606	Apr. 27	2159	565, 566, 567	35	407
Shovels, spades, and scoops. Manufacturing	H. M. Myers	340,598	Apr. 27	2149	557, 558, 559, 560	35	406
Shovels, spades, and scoops. Manufacturing	H. M. Myers	340,599	Apr. 27	2150		35	406
Shovels, spades, and scoops. Manufacture of	J. C. Russell	351,342	Oct. 19	1753	462	37	333
Shovels, spades, and scoops. Plant for the manufacture of	H. M. Myers	340,601	Apr. 27	2153	502, 503	35	406
Show-cover for boxes	G. Ferguson	338,943	Mar. 30	2821	744	34	1461
Show-box for combs	W. H. Noyes	340,056	Apr. 13	1369	343	35	250
Show-box. Sample	F. R. Buck	339,263	Apr. 6	214	54	35	40
Show-case	J. E. Fox	354,893	Dec. 28	1810	478, 479	37	1364
Show-case	W. S. Grove	354,635	Dec. 21	1448	384	37	1283
Show-case	J. Irons	344,582	June 29	2567	665	36	1503
Show-case	F. H. Judson	348,164	Aug. 24	2397	646	36	932
Show-case	J. E. Lee	352,828	Nov. 16	1521	410	37	757
Show-case for holding spectacles and eyeglasses	A. L. Smith	348,354	Aug. 31	2665	718	36	990
Show-frame. Revolving	W. H. Genung	349,883	Sept. 28	1855	479	36	1417
Show-rack	A. H. Jackson	349,255	Sept. 14	985	251	36	1233
Show-rack. Revolving	T. F. Godfrey	353,554	Nov. 30	2575	688	37	973
Show-stand	N. D. Rainville	345,602	July 13	1144	292, 293	36	211
Show stand or rack	O. M. Newman	351,649	Oct. 26	2248	582	37	430
Shut-off box	M. Walker	343,933	June 15	1658	425	35	1324
Shutter	I. Paine	342,456	May 25	2072	546	35	914
Shutter bower and fastener. Combined	D. Conner and F. A. S. Perry	354,396	Dec. 14	1085	291	37	1212
Shutter-fastener	L. Abbott	350,095	Oct. 5	1	1	37	3
Shutter-fastener	H. C. Braley	341,402	May 4	606	166	35	614
Shutter-fastener	H. Camus	347,610	Aug. 17	1588	422	36	775
Shutter-fastener	M. A. Cutter	337,746	Mar. 9	1158	301	34	1140
Shutter-fastener	J. B. Davis	348,622	Sept. 7	126	35	36	1070
Shutter-fastener	S. H. Haas	342,792	June 1	26	7	35	1011
Shutter-fastener	J. W. Kohn	336,054	Feb. 9	1364	360	34	691
Shutter-fastener	W. McConnell	343,333	June 8	828	207	35	1163
Shutter-fastener	W. McConnell	350,834	Oct. 12	1042	279	37	197
Shutter-fastener	G. D. Paul	354,653	Dec. 21	1472	391	37	1288
Shutter-fastener	F. A. S. Perry	337,076	Mar. 2	257	68	34	974
Shutter-fastener	M. H., J. G., and E. N. Reaser	335,960	Feb. 9	1230	327	34	668
Shutter-fastener	G. C. Waterhouse	340,262	Apr. 20	1678	426	35	312
Shutter-fastener	E. Wehmeyer	345,750	July 20	1370	356	36	259
Shutter-fastener	C. V. White	345,348	July 13	763	191	36	143
Shutter-fastener	A. C. Wolfram	341,533	May 11	778	209	35	657
Shutter-fastener and shutter-bower. Combined	A. Barnes and P. B. Cunningham	352,439	Nov. 9	1010	272	37	655
Shutter-fastener and shutter-bower. Combined	H. C. Kauffman	346,289	July 27	2118	545	36	406
Shutter-fastener and shutter-bower. Combined	S. Shaw	336,355	Feb. 16	1830	480	34	779
Shutter. Inside	R. Blair	337,121	Mar. 2	320	83	34	985
Shutter-operator	A. M. Burnham	343,297	June 8	767	192	35	1154
Shutter-operator	C. W. Littlefield	346,855	Aug. 3	504	138	36	558
Shutter or door. Air	W. Palmer	344,853	July 6	77	20	36	15
Shutter. Window-	L. G. Comparet	353,735	Dec. 7	118	33	37	1028
Shutter. Window-	G. H. Thompson	352,588	Nov. 16	1198	324	37	697
Shutter-worker	C. Cramer	346,643	Aug. 3	248	68	36	509
Shutter-worker	A. F. Evers	345,221	July 6	577	147	36	105

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Shutter-worker	C. C. Fairman	343,705	June 15	1364	341	35	1267
Shutter-worker	D. W. Gelb	342,348	May 25	1919	507	35	887
Shutter-worker	S. Kennedy	339,303	Apr. 6	372	68	35	51
Shutter-worker	T. N. Lupton	351,705	Oct. 26	2319	603	37	444
Shutter-worker	F. B. Mallory	340,798	Apr. 27	2428	639	35	455
Shutter-worker	F. B. Mallory	343,716	June 15	1396	348	35	1273
Shutter-worker	J. Naylor	342,123	May 18	1587	423	35	819
Shutter-worker	D. H. Royer	348,142	Aug. 24	2360	633	36	925
Shutter-worker	R. Ruddell	350,896	Oct. 12	1126	299	37	212
Shutter-worker	L. Schuermann	347,202	Aug. 10	1003	267	36	658
Shutter-worker	H. H. Wesler	349,865	Sept. 28	1831	473	36	1412
Shutter-worker	P. M. Young and W. H. Kincaid	341,201	May 4	317	90	35	563
Shuttle	J. A. Davis	353,253	Nov. 23	2127	570	37	883
Shuttle carrier and race mechanism	W. Koch	346,853	Aug. 3	500	38	36	558
Sickle-bars while being ground. Attachment for holding	J. I. Mettler	340,346	Apr. 20	1797	460	35	335
Sickle. Endless reaping	S. B. Sweeney and J. M. Ghormley	334,304	Jan. 12	1159	310	34	223
Side-bar spring	C. P. Crowe	338,585	Mar. 23	2302	603	34	1362
Sidewalk	C. C. Gilman	340,569	Apr. 27	2109	543	35	399
Sidewalk light and ventilator. Combined	F. Braun	345,105	July 6	425	109	36	78
Sidewalk. Metallic	G. W. B. Neal	351,647	Oct. 26	2247	581	37	429
Siding and roofing board	J. W. Crabbe	337,310	Mar. 2	581	153	34	1033
Siding for buildings	A. C. Daugherty	335,342	Feb. 2	362	94	34	506
Siding for buildings	A. C. Daugherty	337,564	Mar. 9	939	240	34	1101
Siding-gage	W. E. Trueblood	351,722	Oct. 26	2342	610	37	448
Siding-machine	J. Lynch	343,328	June 8	820	206	35	1162
Sieve	W. Holmes	339,056	Mar. 30	2994	792, 793	34	1490
Sieve. Druggist's	E. E. Scott	351,207	Oct. 19	1578	414	37	302
Sifter. Ash-	W. T. Adams	346,340	July 27	2188	561	36	418
Sifter. Ash-	G. M. Amon and F. X. Berger	345,823	July 20	1472	380	36	277
Sifter. Ash-	C. Japtok	334,172	Jan. 12	951	257	34	183
Sifter. Ash-	G. W. Milner	347,250	Aug. 10	1069	286	36	670
Sifter. Ash-	J. W. Pohlmann	346,384	July 27	2253	576	36	431
Sifter. Ash-	E. Stammer	342,713	May 25	2443	648	35	982
Sifter. Ash-	M. S. Taylor	343,347	June 8	856	216	35	1170
Sifter. Coal-	A. F. Bullard and G. A. Langmaid	338,582	Mar. 23	2299	602	34	1361
Sifter. Coal and ash	V. H. Lovely	341,340	May 4	516	142	35	599
Sifter. Coal, ash, or gravel	S. Seeley and W. E. Langley	344,603	June 29	2600	674	35	1509
Sifter. Flour-	P. Marx	344,972	July 6	240	61	36	43
Sifter. Flour-	P. Morgenroth and T. Levison	333,966	Jan. 5	639	176	34	120
Sifter for flour, &c	J. Goldstein	342,597	May 25	2273	602	35	951
Sifter. Household	H. O. Reese	351,203	Oct. 19	1574	413	37	302
Sifting apparatus for sugar	C. H. W. Foster	350,532	Oct. 12	603	167	37	117
Sight-feeding lubricator	D. F. Taft	338,650	Mar. 23	2393	631	34	1378
Sign	C. O. Baxter	352,030	Nov. 2	436	118	37	540
Sign	J. O. Belknap	354,621	Dec. 21	1428	378, 379	37	1279
Sign	H. L. and W. L. Harris	344,373	June 29	2289	589	35	1451
Sign	G. H. Kitchen	353,867	Dec. 7	308	80	37	1063
Sign	R. Mansure	351,990	Nov. 2	385	105	37	530
Sign	R. Nicol, Jr	337,188	Mar. 2	411	107	34	1002
Sign	J. A. Pratt	340,730	Apr. 27	2339	616	35	437
Sign and bill holder	T. McGuire	341,931	May 18	1323	353	35	770
Sign. Flexible	H. P. Feister	352,684	Nov. 16	1338	361	37	723
Sign. Illuminated glass	F. L. Pisch	335,305	Feb. 2	309	81	34	496
Sign. Revolving	J. F. Bengert	334,557	Jan. 19	1512	405	34	292
Sign. Revolving	A. T. Fagerburg	346,197	July 27	1988	513	36	381
Sign. Sectional	W. P. McKenna	354,602	Jan. 19	1568	419	34	304
Sign. Show-card	R. W. Young	349,193	Sept. 14	900	231	36	1216
Sign. Window-	J. B. Kerr	341,249	May 4	388	107	35	577
Signs. Chain for portable	H. Willson	354,293	Dec. 14	957	253	37	1186
Signal: *See* Automatic danger-signal. Car-signal. Danger-signal. Fire-signal. Fire-alarm signal. Railway-signal. Railway-car signal. Railway-crossing signal. Railway time-signal. Railway-train signal. Semaphore-signal. Torpedo railway-signal.							
Signal	J. F. Riethmayer	345,862	July 20	1527	395	36	286
Signal	A. M. Trude and C. H. Cooley	354,816	Dec. 21	1699	449, 450	37	1331
Signal apparatus	J. R. Pheeney	334,980	Jan. 26	2065	551	34	403
Signal apparatus. Electro-mechanical	W. W. Le Grande	351,384	Oct. 26	1822	479, 480	37	351
Signal apparatus. Electro-mechanical	W. W. Le Grande	352,903	Nov. 16	1622	436, 437	37	778
Signal apparatus. Municipal	J. C. Wilson	344,467	June 29	2407	620	35	1472
Signal-box. Watchman's electric	W. W. Le Grande and G. W. Burton	352,549	Nov. 16	1143	309	37	687
Signal-boxes and similar apparatus. Door for	B. S. Flanders	346,847	Aug. 3	490	135, 136	36	556
Signal-buoy	T. Duffy	352,527	Nov. 16	1116	302	37	682
Signal-coupler. Automatic electrical	J. S. Copers	352,990	Nov. 23	1750	469	37	809
Signal-horn	C. A. Volke	337,098	Mar. 2	287	76	34	980
Signal or call box	D. Davis, Jr., and G. F. Gale	337,356	Mar. 2	633	167	34	1043
Signal-tube apparatus	J. W. Black	347,154	Aug. 10	941	251	36	646
Signal-wires. Mechanism for actuating	F. R. Clarke	338,389	Mar. 23	2045	536	34	1317
Signals. Apparatus for effecting intermittent action of fog and other	F. W. Durham and J. D. Churchill	336,041	Feb. 9	1343	355	34	687
Signals. Apparatus for operating	J. A. Bonnell	341,397	May 4	598	164	35	613
Signals. Apparatus for producing flash	J. Borro	348,313	Aug. 31	2620	706	36	980
Signals, &c. Mechanism for controlling	H. and H. A. Johnson and J. T. Cade	334,232	Jan. 12	1049	279, 280	34	203

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Signaling apparatus	G. W. Brown	347,319	Aug. 17	1176	315	36	699
Signaling apparatus	L. Sellner	337,626	Mar. 9	1011	2,4 / 200	34	1115
Signaling apparatus. Automatic block	T. W. Burt	342,860	June 1	115	29, 30	35	1027
Signaling apparatus. Automatic block	T. W. Burt	346,893	Aug. 10	562	151	36	577
Signaling apparatus. District	J. C. Wilson	339,960	Apr. 13	1232	307	35	226
Signaling apparatus. Electric	E. T. Gilliland	336,562	Feb. 23	2109	554 / 555	34	835
Signaling apparatus. Electrical	T. A. Edison	347,097	Aug. 10	863	228 / 229	36	631
Signaling apparatus. Night	J. Wall	335,489	Feb. 2	557	146	34	541
Signaling policemen. Apparatus for	J. P. Brewer and W. C. Smith	347,318	Aug. 17	1174	314	36	698
Silk cocoons. Treatment of tussah	H. R. Randall	354,222	Dec. 14	845	.....	37	1168
Silk fabric and method of preparing tram for the same	R. Simon	348,063	Aug. 24	2258	604	36	906
Silk fiber. Treating	C. Huggenberg	339,778	Apr. 13	999	.....	35	182
Silk fiber. Treatment of	H. R. Randall	354,223	Dec. 14	846	.....	37	1168
Silk, &c. Swift for	J. E. and E. Atwood and E. E. Bradley	338,627	Mar. 23	2364	622	34	1373
Silo-press	E. W. Ross	350,845	Oct. 12	1060	283	37	200
Silver ores. Working copperous	F. Ernst	342,903	June 1	177	.....	35	1038
Single-acting engine. Twin-cylinder	F. Plumb	336,743	Feb. 23	2363	618	34	881
Sink-bracket	A. Fowkes	343,633	June 15	1262	318	35	1250
Sink-bracket	F. Taylor	353,991	Dec. 7	497	134	37	1097
Sink. Combination wash	N. C. Elder	335,437	Feb. 2	488	127	34	529
Sink-connection	J. D. McEntee	342,452	May 25	2066	544	35	123
Sink. Kitchen	W. S. Neuenschwander	342,531	May 25	2183	578	35	933
Sink-trap	J. R. Pike	354,930	Dec. 28	1864	493	37	1374
Siphon	G. W. Arper	339,127	Apr. 6	9	3	35	4
Siphon and outlet or weir chamber for flush-tanks	G. E. Waring, Jr	336,182	Feb. 16	1572	413	34	733
Siphon. Automatic	E. Almond	354,501	Dec. 21	1380	365	37	1271
Siphon. Automatic flushing	W. B. Parsons, Jr	334,606	Jan. 19	1573	420	34	305
Siphon for beer, &c	F. Heyman	354,787	Dec. 21	1662	439	37	1324
Siphon-recorder	C. Cuttriss	344,772	June 29	2814	729	35	1548
Sirup-gage	J. Brown	333,993	Jan. 12	680	186	34	136
Sirup-gage	P. Palm	336,151	Feb. 16	1526	402	34	725
Sirups and molasses. Preparing and treating	A. Rahn, Fils	335,240	Feb. 2	221	.....	34	480
Size for yarn, textile, or other fabrics. Compound for preparing starch or flour	C. N. Waite	351,890	Nov. 2	227	.....	37	500
Sizing-machine	E. W. Blake	346,636	Aug. 3	239	65	36	506
Skate	A. Engelbrektson	335,438	Feb. 2	489	127	34	529
Skate	M. Hilliger	339,178	Apr. 6	82	24	35	17
Skate	L. Hull	336,919	Mar. 2	52	14	34	936
Skate	C. L. Peirce	342,457	May 25	2073	546 / 547	35	914
Skate	C. L. Peirce	342,458	May 25	2074	547	35	915
Skate and caster roller	S. C. Mendenhall	343,185	June 8	601	149	35	1125
Skate. Coasting	E. S. Kingston	334,954	Jan. 26	2028	541	34	397
Skate-fastening	E. H. Barney	335,556	Feb. 9	657	173	34	565
Skate-fastening	J. W. King	343,664	June 15	1300	326	35	1256
Skate-fastening	U. Olsen	334,975	Jan. 26	2059	549	34	402
Skate. Roller	G. Blum	334,739	Jan. 26	1762	469	34	347
Skate. Roller	C. Brinton	337,922	Mar. 16	1394	362	34	1190
Skate. Roller	H. S. Combs	333,996	Jan. 12	685	187	34	137
Skate. Roller	R. J. Costain	337,742	Mar. 9	1153	299	34	1139
Skate. Roller	W. H. Daniel	352,739	Nov. 16	1404	380	37	737
Skate. Roller	C. C. Davis	340,703	Apr. 27	2297	605	35	429
Skate. Roller	C. C. Davis	341,999	May 18	1404	375	35	784
Skate. Roller	J. H. Fenton	352,743	Nov. 16	1408	381	37	738
Skate. Roller	A. E. Francis	336,308	Feb. 16	1769	463	34	767
Skate. Roller	J. B. Harris, Jr	333,751	Jan. 5	354	96	34	66
Skate. Roller	J. B. Harris, Jr	337,151	Mar. 2	359	94	34	992
Skate. Roller	J. G. Havens	345,781	July 20	1418	367	36	268
Skate. Roller	J. Heacock	338,070	Mar. 16	1602	417	34	1227
Skate. Roller	M. C. Henley	338,736	Mar. 30	2538	670	34	1409
Skate. Roller	F. W. Hill	346,158	July 27	1939	499	36	371
Skate. Roller	G. F. Johnson	334,231	Jan. 12	1048	278 / 279	34	203
Skate. Roller	H. W. Libbey	346,664	Aug. 3	271	74	36	513
Skate. Roller	J. F. Mains	336,579	Feb. 23	2133	559	34	839
Skate. Roller	J. F. Mains and B. C. Converse	338,993	Mar. 30	2901	769	34	1474
Skate. Roller	R. P. McFeely	333,771	Jan. 5	377	103	34	71
Skate. Roller	W. R. Morris	336,816	Feb. 23	2462	646	34	900
Skate. Roller	J. A. Peer	339,317	Apr. 6	290	73	35	55
Skate. Roller	J. A. Peer	339,318	Apr. 6	291	73	35	65
Skate. Roller	O. J. Punches	334,281	Jan. 12	1128	303	34	217
Skate. Roller	M. F. Richardson	336,437	Feb. 16	1941	509	34	990
Skate. Roller	W. Robinson	334,896	Jan. 26	1952	520	34	383
Skate. Roller	D. A. Root	353,644	Nov. 30	2719	726	37	997
Skate. Roller	G. W. Shamp	340,957	Apr. 27	2636	694	35	491
Skate. Roller	S. E. Shute	337,205	Mar. 2	429	112	34	1005
Skate. Roller	S. E. Shute	337,578	Mar. 16	1337	347	34	1179
Skate. Roller	S. E. Shute and G. C. Stevens	334,992	Jan. 26	2078	555	34	406
Skate. Roller	S. C. Smith	341,067	May 4	128	38	35	528
Skate. Roller	J. N. Sterling	346,512	Aug. 3	80	21, 22	36	475
Skate. Roller	B. E. Tilden	341,186	May 4	298	85	35	559
Skate. Roller	O. F. Tucker	348,249	Aug. 31	2535	681	36	963
Skate. Roller	J. A. Yarger	333,583	Jan. 5	117	32	34	25
Skate-roller	P. Bacher	341,206	May 4	322	91	35	564
Skate-roller	E. F. Keyes	349,163	Sept. 14	862	221	36	1209
Skate-roller	S. C. Mendenhall	344,453	June 29	2390	615	35	1470
Skate-roller	A. P. Odell	336,491	Feb. 16	2013	527	34	812
Skate-roller	R. B. Whitzel	338,576	Mar. 23	2291	590	34	1300
Skate. Self-fastening	E. M. Florentin and A. T. Falvey	340,773	Apr. 27	2393	631	35	447
Skate. Velocipede	T. Tennent	336,600	Feb. 23	2164	566	34	844

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Skate wheel. Roller	L. S. Colburn	339,382	Apr. 6	382	94	35	71
Skate wheel. Roller	A. H. Eysaman	345,492	July 13	872	217	36	162
Skates. Locking device for	C. F. Sullivan	344,330	June 22	2219	571	35	1431
Skates. Safety-wheel for roller	R. I. Towle	336,603	Feb. 23	2167	566	34	845
Skaters and swimmers. Apparatus for assisting	J. W. Hill	339,650	Apr. 13	819	201	35	150
Skaters. Apparatus for assisting roller	C. Johnson	335,031	Jan. 26	2141	569	34	416
Skaters. Balancing device for roller	G. D. Kayes	339,786	Apr. 13	1006	248	35	184
Skating, &c. Means for the construction of surfaces for	J. A. Calantarients	337,128	Mar. 2	328	86	34	987
Skelp-bending machine	J. H. Pierce and W. B. Sandford	353,808	Dec. 7	218	58, 59	37	1046
Skid	J. Stromeyer	351,476	Oct. 26	1994	518	37	382
Skid. Spiked	W. H. Polleys	338,872	Mar. 30	2726	717	34	1443
Skins. Machine for removing fleece, wool, hair, &c., from	J. Tyghe, S. J. and F. J. Howell	343,552	June 8	1141	288	35	1221
Skins. Machine for shaving	J. Rood	339,323	Apr. 6	300	75	35	57
Skips or wagons. Discharging and righting	J. Kitto, A. Paul, and R. R. Nancarrow	334,076	Jan. 12	805	221	34	158
Skirt	E. D. McCracken	344,973	July 6	241	61	36	43
Skirt and bustle. Combined	L. Dryfoos	338,634	Mar. 23	2572	624	34	1374
Skirt-band. Skeleton	E. M. Reynolds	341,430	May 4	635	174	35	620
Skirt. Dress	I. H. Westgate	343,974	June 15	1719	459	35	1335
Skirt facing. Dress	S. M. and H. Moschcowitz	348,859	Sept. 7	428	115	36	1126
Skirt-form	M. A. Lucey	340,133	Apr. 20	1478	373, 374	35	276
Skirt holder and rack. Adjustable	F. M. Reynolds	352,891	Nov. 16	1606	433	37	774
Skylight	J. F. Forderer	334,650	Jan. 19	1640	438	34	317
Skylight	J. F. Forderer	334,651	Jan. 19	1642	438	34	318
Skylight	C. A. Vaile	346,077	July 20	1822	470	36	340
Skylight-cover	J. W. Shaw	351,533	Oct. 26	2076	538	37	399
Skylight-frame	H. J. Sullivan	334,487	Jan. 19	1417	381	34	276
Skylight-frame-work	C. W. Strand	350,448	Oct. 5	475	134	37	91
Skylight. Ventilating	G. Hayes	345,688	July 20	1280	332	36	243
Slag-buggy	W. B. Devereux	335,114	Feb. 2	21	7	34	444
Slasher	C. H. Howard	350,054	Sept. 28	2086	540	36	1461
Slat-weaving machine	I. A. Kerr	354,707	Dec. 21	1547	409, 410	37	1302
Slate-cleaner	F. Wittram	336,612	Feb. 23	2186	570	34	848
Slate. Enameled	P. Wenzel	333,578	Jan. 5	110	30	34	23
Slate-frame. Noiseless	R. M. McDowell	342,621	May 25	2314	611	35	958
Slate. Machine for dressing	F. Shenton	355,279	Dec. 28	2359	620, 621	37	1470
Slate. School	H. H. Christie	339,618	Apr. 13	769	190	35	142
Slate. School	J. Du Shane	347,696	Aug. 17	1725	460	36	800
Slate-washer	B. M. Abell	341,202	May 4	318	90	35	563
Slate washer and wiper	P. D. Horton	339,652	Apr. 13	821	202	35	151
Slates. Abacus for	C. F. Roddey	339,933	Apr. 13	1198	298	35	220
Slates. Device for cleaning	J. Cocheu	352,946	Nov. 23	1686	452	37	798
Slates, &c. Machine for making muffling-strips for	C. Nelson	352,145	Nov. 9	624	165	37	581
Slates. Ruler attachment for	F. H. Bloemker	353,477	Nov. 30	2457	656	37	950
Sled	C. P. Cary	345,829	July 20	1483	384	36	278
Sled	E. M. Deane	344,354	June 29	2261	581	35	1446
Sled	G. M. Dwight	339,747	Apr. 13	957	236	35	174
Sled	D. R. McLaren	347,436	Aug. 17	1336	356	36	738
Sled	O. Unzicker	349,827	Sept. 28	1784	461	36	1403
Sled	L. D. Whiting	336,274	Feb. 16	1715	447, 448	34	757
Sled. Bob	J. Fieweger	347,786	Aug. 24	1854	494	36	832
Sled. Bob	W. Fisher	336,639	Feb. 23	2213	577	34	852
Sled. Bob	T. G. Mandt	353,569	Nov. 30	2592	692	37	976
Sled. Bob	A. Newstrom	341,679	May 11	993	....	35	699
Sled. Bob	O. S. Raymond	343,200	June 8	616	153	35	1128
Sled. Bob	J. S. Willson and W. H. Mack	349,378	Sept. 21	1154	299	36	1275
Sled-brake	S. H. Anderson	343,356	June 8	870	219	35	1172
Sled-brake	W. Andrews	349,132	Sept. 14	822	209	36	1201
Sled-brake	J. Costello and J. M. Aker	347,322	Aug. 17	1182	316	36	700
Sled-brake	T. J. Kyte	333,957	Jan. 5	629	173	34	118
Sled-brake	O. W. Smith	352,984	Nov. 23	1740	466	37	808
Sled. Hand	H. Lindenberg	353,262	Nov. 23	2143	574	37	886
Sled-propeller	J. Heidorf	342,257	May 18	1758	467	35	851
Sled-runner	F. B. Wahmhoff	344,697	June 29	2715	705	35	1531
Sled runner. Bob	J. Moses	343,054	June 1	398	101	35	1078
Sleds. Steering attachment for	O. A. Thayer	344,146	June 22	1970	503	35	1366
Sleeve and glove protector	M. W. Slack	338,790	Mar. 30	2612	688	34	1422
Sleeve-holder	J. W. Pilkington	339,460	Apr. 6	499	121	35	93
Sleigh	L. Bender	353,117	Nov. 23	1936	519	37	845
Sleigh	S. T. Beswick	351,089	Oct. 19	1420	372	37	273
Sleigh	P. Fritz	347,787	Aug. 24	1855	494	36	832
Sleigh	S. F. Hewitt	336,411	Feb. 16	1907	499	34	793
Sleigh	C. F. Kimball	339,992	Apr. 13	1286	321	35	236
Sleigh	J. Le Compte	350,373	Oct. 5	361	104	37	73
Sleigh	J. K. P. Pine	354,580	Dec. 21	1356	359, 360	37	1267
Sleigh	G. E. Sly	351,215	Oct. 19	1587	416	37	304
Sleigh and carriage. Combined	W. H. Crane	352,450	Nov. 9	1024	276	37	658
Sleigh attachment for vehicles	T. Scott	346,323	July 27	2171	557	36	415
Sleigh. Bob	W. H. Allen	343,156	June 8	559	141	35	1117
Sleigh. Bob	M. B. Bertrang	344,711	June 29	2731	710	35	1534
Sleigh. Bob	W. H. Galvin	337,827	Mar. 16	1371	329	34	1167
Sleigh. Bob	H. D. Jeffrey and J. Liver	337,586	Mar. 9	965	247	34	1106
Sleigh-body	W. Chase	342,899	June 1	174	43	35	1037
Sleigh. Combined double and single seated	W. H. and C. Steinbrecher	335,649	Feb. 9	790	209, 210	34	589
Sleigh-knee	F. J. Bartlett	342,167	May 18	1640	439	35	830
Sleigh-knee	C. E. Belknap	338,384	Mar. 23	2039	535	34	1315

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sleigh-knee	A. Doll	336,555	Feb. 23	2102	553	34	834
Sleigh-knee. Hinged	J. J. Gardner	347,103	Aug. 10	870	230	36	632
Sleigh-runner	S. C. Brownell	339,918	Jan. 5	573	155	34	107
Sleigh-runner	G. and W. Hegenberger	339,175	Apr. 6	78	23	35	17
Sleigh-runner	E. Jordan	352,092	Nov. 2	528	141	37	558
Sleigh-runner	G. W. Potter	352,887	Nov. 16	1602	432	37	774
Sleigh-runner	A. H. Todt	346,874	Aug. 3	533	145	36	564
Sleigh-runner	B. M. Wentworth	346,337	July 27	2186	561	36	418
Sleigh-shoe	L. B. Seeley	344,601	June 29	2597	673	35	1509
Slicing-machine	F. W. Koch and S. Garrett	343,587	June 15	1201	302	35	1239
Slicing-machine	I. L. Landis	339,904	Apr. 13	1160	288	35	214
Slicing machine. Meat and vegetable	C. W. Stevens	352,101	Nov. 2	540	143	37	560
Sliding and rolling gate	J. W. Coffin	348,108	Aug. 24	2318	622	36	917
Sliding and swinging gate	T. C. Curtis	349,925	Sept. 28	1899	492	36	1426
Sliding gate	W. S. Brown	349,920	Sept. 28	1896	491	36	1425
Sliding gate	W. R. Patten	354,210	Dec. 14	829	220	37	1165
Sliding gate	L. Thuston and E. R. Chase	336,601	Feb. 23	2165	566	34	844
Sling-shot frame	M. Lester, Jr	344,840	July 6	63	15	36	12
Slipper-hanger	H. M. Crockett	352,738	Nov. 16	1403	379	37	737
Sluiting-gage	S. Hargrave, Sr	341,477	May 11	707	190	35	643
Slubbing and roving frame	J. Higgins and T. S. Whitworth	341,574	May 11	843	224 225	35	670
Sluiceway-gate	J. B. Tainter	344,878	July 6	119	29, 30	36	21
Smelting-furnaces. Matte-pot for	M. W. Iles and F. Keiper	335,224	Feb. 2	200	52	34	476
Smoke and cinder conductor	J. H. Meacham	345,524	July 13	1010	256	36	188
Smoke and gas consuming furnace	E. R. Howard	341,008	May 4	51	13	35	115
Smoke-bell attachment	W. Ford	341,899	May 18	1282	343	35	763
Smoke-bonnet	W. Rose	354,937	Dec. 28	1877	495	37	1377
Smoke-burning furnace for steam-boilers	W. T. McDonald	344,537	June 29	2517	649	35	1492
Smoke-conductor	T. Rundle, Jr	337,087	Mar. 2	272	72	34	977
Smoke-consumer	C. Fink	341,897	May 18	1279	342	35	762
Smoke-consumer	J. Keane	347,615	Aug. 17	1596	423	36	777
Smoke-consumer	J. M. Pitcher	350,556	Oct. 12	639	176	37	123
Smoke. Consuming	W. Kneen	340,918	Apr. 27	2383	681	35	482
Smoke-consuming furnace	E. Fales	342,080	May 18	1532	409	35	809
Smoke-consuming furnace	E. Fales	342,081	May 18	1531	410	35	809
Smoke-consuming furnace	E. Fales	342,083	May 18	1538	411	35	810
Smoke-consuming furnace	J. L. Peslin	348,863	Sept. 7	434	116	36	1128
Smoke-consuming furnace	G. Raven	337,436	Mar. 9	776	198	34	1073
Smoke-consuming furnace	H. Rösicke	350,562	Oct. 12	648	177 178	37	125
Smoke-consuming furnace	T. S. Wilkin	334,066	Jan. 12	792	218	34	155
Smoke-consuming furnace	A. Younger	350,335	Oct. 5	315	90	37	64
Smoke economically. Treating	T. J. Sullivan	335,653	Feb. 9	794	211	34	590
Smoke-generator	J. W. Kizziar	341,335	May 4	512	141	35	598
Smoke-jack	A. W. Quackenbush	349,318	Sept. 21	1053	269	36	1255
Smoke-preventing furnace	W. Latham	341,255	May 4	396	109	35	578
Smoke-stack	T. H. Bolte	345,664	July 20	1250	324	36	238
Smoke-stack	W. H. Garlock	334,369	Jan. 12	1246	335	34	238
Smoke-stack	H. C. Simpson and P. Willox	354,255	Dec. 14	895	236	37	1176
Smoke-stacks. Portable platform for	B. Vitalis	325,164	Feb. 2	92	25	34	457
Smoker's appliance	S. E. Lawrence	338,421	Mar. 23	2089	547	34	1325
Smoking and drying apparatus	C. L. Ryan	354,072	Dec. 7	609	167	37	1118
Smoking-pipe	F. Knestner	341,150	May 4	246	73	35	550
Smoothing and polishing iron	B. F. Hostetter and I. C. H. Gilmore	346,814	Aug. 3	440	121	36	546
Smoothing and polishing iron	J. B. McFall	350,759	Oct. 12	925	250	37	176
Smoothing-iron	G. T. Kearns and J. H. Noble	337,267	Mar. 2	514	134	34	1021
Smut-machine	S. Wohlrab	337,219	Mar. 2	446	117	34	1009
Snap-hook	G. Bernd	339,939	Mar. 30	2973	786	34	1486
Snap-hook	C. B. Bristol	343,942	June 15	1669	428	35	1326
Snap-hook	L. J. Bristol	341,445	May 11	663	179	35	635
Snap-hook	M. D. Converse	340,558	Apr. 27	2095	540	35	396
Snap-hook	G. W. Drew	346,811	Aug. 3	438	120	36	545
Snap-hook	G. M. Hubbard	347,108	Aug. 10	877	232	36	634
Snap-hook	G. M. Hubbard	350,055	Sept. 28	2087	540	36	1461
Snap-hook	G. A. Huff	346,047	July 20	1783	459	36	332
Snap-hook	T. T. Morrow	349,169	Sept. 14	870	223	36	1211
Snap-hook	T. T. Morrow	349,170	Sept. 14	870	223	36	1211
Snap-hook	G. Quackenbush	349,003	Sept. 14	644	166	36	1169
Snap-hook	M. M. Riggle	345,923	July 20	1610	415	36	302
Snap-hook	D. M. Seaman	341,608	May 11	882	235	35	677
Snap-hook	G. A. Shamberger	347,965	Aug. 24	2127	566	36	881
Snap-hook	J. H. Shaw	340,830	Apr. 27	2468	649	35	461
Snap-hook	C. H. Smith	343,862	June 15	1572	399	35	1306
Snap-hook	C. H. Smith	353,889	Dec. 7	344	92	37	1070
Snap-hook	C. H. Smith	353,890	Dec. 7	345	92	37	1070
Snap-hook	C. H. Smith	353,891	Dec. 7	347	92	37	1070
Snap-hook	S. S. Stahl	345,086	July 6	401	101	36	73
Snap-hook	G. R. B. Swanton	343,406	June 8	947	236	35	1186
Snap-hook	E. T. Viyon	352,669	Nov. 16	1317	355	37	719
Snap-hook. Harness	J. A. Park	342,877	June 1	145	36	35	1032
Snap-hook. Safety	I. M. McKay	354,481	Dec. 14	1202	321	37	1233
Snells. Apparatus for laying	F. E. Forster	345,496	July 13	972	246	36	181
Snow in railway-cuttings. Preventing accumulation of	W. L. Howie	347,107	Aug. 10	876	232	36	634
Snow-plow	E. Bastian	344,235	June 22	2092	534 535	35	1408
Snow-plow	C. D. Batchelor	336,833	Feb. 23	2481	653	34	903
Snow-plow	J. H. Bennett	354,675	Dec. 21	1507	399	37	1204
Snow-plow	P. B. Brazel	346,637	Aug. 3	240	66	36	506
Snow-plow	S. H. Buswell	345,618	July 13	1163	298	36	215
Snow-plow	R. Campbell	351,161	Oct. 19	1515	396 397	37	290
Snow-plow	C. Cook	346,726	Aug. 3	348	94	36	529

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Pages.
Snow-plow	C. Howard	333,948	Jan. 5	616	168, 169	34	115
Snow-plow	E. Leslie	338,759	Mar. 30	2570	678	34	1415
Snow-plow	J. E. Nathan	339,680	Apr. 13	865	212	35	158
Snow-plow	T. Ormerod and A. B. Croskey	337,075	Mar. 2	256	68	34	973
Snow-plow	J. M. Poitras	337,078	Mar. 2	259	69	34	974
Snow-plow	H. S. Rollins	344,405	June 29	2328	600	35	1459
Snow-plow	P. Stauffer	350,327	Oct. 5	304	86	37	62
Snow-plow	C. M. Steenbarger	353,604	Nov. 30	2643	706	37	985
Snow plow and scraper	C. M. Culbertson, Sr.	337,561	Mar. 9	936	240	34	1101
Snow-shovel	W. H. Hicks	342,961	June 1	264	68	35	1054
Snow-sweeper	N. Campbell	333,598	Jan. 5	135	37	34	27
Snow-sweeper	N. Campbell	333,599	Jan. 5	136	37	34	28
Snow sweeper and melter	T. Wright	343,353	June 8	864	217, 218	35	1171
Snow-sweeper draw-bar	N. Campbell	333,597	Jan. 5	134	37	34	27
Snow-sweeper journal-box	N. Campbell	333,596	Jan. 5	133	36	34	27
Soap	C. H. Walker	337,035	Mar. 2	208	.....	34	963
Soap and glycerine. Manufacturing	M. H. Lackersteen	353,566	Nov. 30	2590	.....	37	976
Soap by the cold process. Manufacture of	W. J. Menzies	345,715	July 20	1314	.....	36	249
Soap. Composition for the manufacture of	W. J. Menzies	345,714	July 20	1313	.....	36	249
Soap. Composition of matter for the manufacture of	J. Ericksen	340,565	Apr. 27	2106	.....	35	398
Soap. Compound	C. F. Broadbent	346,461	Aug. 3	15	.....	36	463
Soap compound	M. S Moot	340,451	Apr. 20	1930	.....	35	359
Soap-frame	B. T. Babbitt	342,558	May 25	2217	589	35	940
Soap-frame	S. Rosenblatt	349,320	Sept. 21	1054	270	36	1255
Soap-holder	A. E. Robinson	335,539	Feb. 2	623	163	34	551
Soap, &c. Making laundry-	N. J. Clute	347,027	Aug. 10	753	.....	36	612
Soap. Manufacturing	E. C. Atkins	339,727	Apr. 13	931	228	35	170
Soap-mold	F. C. Christy	339,376	Apr. 6	374	91	35	70
Soap-press	J. H. Clapp	340,979	May 4	13	4	35	507
Soap-press	J. Dennis and J. A. Coram	333,505	Jan. 5	10	5	34	5
Soap-press	W. T. Schuberth	339,936	Apr. 13	1202	299	35	221
Soap-receptacle	A. H. Campbell	354,683	Dec. 21	1517	402	37	1296
Soap tablet	T. E. Gardner	354,186	Dec. 14	798	211	37	1159
Sod-cutter and cultivator combined	C. Gerber	339,401	Apr. 6	409	100	35	76
Sod cutter and pulverizer	E. Royce	344,204	June 22	2052	525	35	1401
Soda. Manufacture of bichromate of	W. J. Chrystal	342,578	May 25	2242	.....	35	945
Soda. Manufacture of blocks of bicarbonate of	J. W. Carson and F. P. Harned	338,924	Mar. 30	2802	.....	34	1457
Soda-motor	A. J. Grafenstatt and W. Tweedie	350,428	Oct. 5	438	126	37	86
Soda or other mineral waters. Cradle for carbonating	A. D. Puffer	347,378	Aug. 17	1262	334	36	713
Soda-water apparatus	L. Beretz	334,159	Jan. 12	937	253	34	181
Soda-water. Apparatus for dispensing	J. Brown	351,848	Nov. 2	176	47, 48	37	491
Soda-water fountains. Cock for	J. H. Matthews, T. Dyson, and J. Ormerod.	333,651	Jan. 5	200	55	34	39
Sodium and potassium. Manufacture of	H. Y. Castner	342,897	June 1	171	.....	35	1037
Sodium. Producing sulphite or bisulphite of	W. O. and W. P. Crocker	339,974	Apr. 13	1251	.....	35	229
Sofa	J. B. Haight	341,140	May 4	234	69, 70	35	548
Sofa and bedstead combined	J. J. Baylor	337,652	Mar. 9	1044	268	34	1121
Soil or drain pipe	F. W. Doherty	336,476	Feb. 16	1994	522	34	806
Solder for aluminum	J. S. Sellon	333,786	Jan. 5	398	.....	34	75
Soldering apparatus. Can-	J. J. Johnston	345,638	July 13	1200	311	36	222
Soldering caps upon sheet-metal cans. Machine for	E. Norton and J. G. Hodgson	340,148	Apr. 20	1497	379	35	280
Soldering-case	S. Morningstar	350,314	Oct. 5	284	81	37	58
Soldering. Composition of matter to be used in	A. P. Smith	354,843	Dec. 21	1733	.....	37	1338
Soldering-iron	H. M. Dixon	334,942	Jan. 26	2013	556	34	394
Soldering-iron	J. Lee	339,907	Apr. 13	1163	290	35	214
Soldering-iron	F. W. Schultz	346,319	July 27	2165	556	36	414
Soldering-iron	S. P. Swartz	347,307	Aug. 10	1156	309	36	686
Soldering-machine	E. Norton and J. G. Hodgson	345,254	July 6	628	160	36	114
Soldering-machine	L. M. and E. Norton and J. G. Hodgson.	354,731	Dec. 21	1578	417, 418	37	1308
Soldering-machine	W. E. Vincent	343,508	June 8	1085	272	35	1210
Soldering machine. Can-	W. D. Brooks	335,011	Jan. 26	2106	561	34	411
Soldering machine. Can-	W. D. Brooks	335,012	Jan. 26	2108	561, 562	34	411
Soldering machine. Can-	W. D. Brooks	352,034	Nov. 2	439	119, 120	37	541
Soldering machine. Can-	D. M. Monroe	336,659	Feb. 23	2258	588	34	861
Soldering machine. Can-	D. M. Monroe	337,277	Mar. 2	532	140	34	1025
Soldering machine. Can-	D. M. Monroe	338,672	Mar. 23	2428	640, 641	34	1383
Soldering machine. Can-	D. M. Monroe	353,420	Nov. 30	2372	632	37	934
Soldering machine. Can-	D. M. Monroe	353,421	Nov. 30	2374	633	37	935
Soldering-machines. Automatic flux-feeding attachment for	G. T. Pillings	342,383	May 25	1969	519, 520	35	896
Soldering the handles to tin cups. Machine for	C. L. Wagandt	353,275	Nov. 23	2161	578	37	889
Soldering the longitudinal seams of sheet-metal cans. Machine for	G. T. Pillings	344,856	July 6	82	21, 22	36	16
Soldering-tool	W. H. Frost	344,311	June 22	2197	565	35	1427
Soldering-tool	E. M. Lang, Jr.	337,842	Mar. 16	1292	335	34	1171
Sole and heel. Combined	E. J. Le Gay	350,539	Oct. 12	613	169, 170	37	118
Sole and heel nailing machine	F. F. Raymond, 2d	353,883	Dec. 7	330	86, 87, 88, 89	37	1068
Sole and heel. Rubber	G. F. Butterfield	333,595	Jan. 5	133	36	34	27
Sole and heel shaving implement	E. B. and J. T. Drummond	351,429	Oct. 26	1916	499	37	367
Sole-buffing machines. Roll for	G. A. Fullerton	352,087	Nov. 2	521	139	37	557
Sole-channeling machine	H. H. Cummings	354,012	Dec. 7	526	143, 144	37	1102
Sole-edge-burnishing machine	J. W. Dodge	339,049	Mar. 30	2985	789, 790	34	1488

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sole-inking device	C. K. Bradford	345,666	July 20	1251	334	36	238
Sole-laying machine	P. A. Coupal	353,251	Nov. 23	2122	568, 569	37	882
Sole-laying machine	P. A. Coupal and C. D. Wood	335,016	Jan. 26	2113	563	34	412
Sole-leveling machine	O Gilmore	344,650	June 29	2661	690	35	1521
Sole-nailing machine	F. F. Raymond, 2d	346,124	July 27	1878	485, 486, 487	36	360
Sole or heel edge burnishing machine	W. Gordon	352,866	Nov. 16	1573	424	37	768
Soles. Apparatus for grading and cutting	A. S. Adler	341,204	May 4	320	90, 91	35	564
Soles. Applying cloth to in-	F. L. Blair	333,499	Jan. 5	5	2	34	4
Soles to uppers. Machine for uniting	S. W. Robinson	346,128	July 27	1889	488	36	362
Soles to uppers. Machine for uniting	S. W. Robinson	346,129	July 27	1891	489	36	363
Soot-accumulator	A. J. Grush and J. B. S. Case	340,113	Apr. 20	1445	365	35	270
Sorghum boiler and evaporator	J. C. Wynn	336,279	Feb. 16	1724	450	34	758
Sorting-machine for classifying wooden stuffs	G. V. A. Cuvier, Fils, and Gourand	347,264	Aug. 10	1085	290, 291	36	673
Sounding apparatus. Navigational	W. Thomson	352,589	Nov. 16	1199	224, 225, 226	37	697
Sounding-bar	E. C. Jones	345,698	July 20	1292	335	36	245
Soundings. Apparatus for recording	S. Haagensen and O. F. Sonne	342,351	May 25	1923	507, 508	35	888
Sounds. Apparatus for recording and reproducing	S. Tainter	341,288	May 4	445	123, 124	35	586
Sounds. Apparatus for transmitting to distant points articulate	E. S. Spaulding	345,085	July 6	400	101	36	73
Sounds by radiant energy. Transmitting and recording	A. G. and C. A. Bell and S. Tainter	341,213	May 4	332	93, 94	35	566
Sounds from phonograph records. Reproducing	A. G. and C. A. Bell and S. Tainter	341,212	May 4	328	93	35	565
Sounds. Instrument for transmitting vocal	C. J. Stuart	341,519	May 11	759	204	35	654
Sounds. Recording and reproducing	S. Tainter	341,287	May 4	442	122	35	586
Sounds. Recording and reproducing speech and other	C. A. Bell and S. Tainter	341,214	May 4	336	94, 95	35	567
Sounds to distant points. Transmitting and receiving articulate	E. S. Spaulding	345,084	July 6	399	100	36	73
Sower and fertilizer-distributer. Broadcast seed-	W. W. Lord	351,988	Nov. 2	380	104	37	529
Sower. Broadcast seed-	S. Freeman	340,774	Apr. 27	2394	631	35	448
Sower. Broadcast seed-	O. F. Heartwell, Jr	337,832	Mar. 16	1279	331	34	1169
Sower. Broadcast seed-	T. J. Miller	336,421	Feb. 16	1919	503	34	796
Sower. Broadcast seed-	S. S. Speicher	349,820	Sept. 28	1776	479	36	1400
Sower. Seed-	M. S. Field	350,821	Oct. 12	1022	273, 274	37	193
Sowing machine. Broadcast grain-	W. Sharkey	342,644	May 25	2341	618	35	964
Sowing-machine. Grass-seed	J. L. Strock	338,204	Mar. 16	1784	466	34	1264
Spade	C. McBride	337,602	Mar. 9	983	252	34	1110
Spark-arrester	P. H. Adams	346,012	July 20	1741	448	36	325
Spark-arrester	J. C. Albrecht	342,556	May 25	2214	588, 589	35	940
Spark-arrester	J. M. Buckley	349,337	Sept. 21	1074	276	36	1260
Spark-arrester	J. D. Connell	339,268	Apr. 6	220	55	35	41
Spark-arrester	J. H. Elward	339,538	Apr. 6	626	153	35	113
Spark-arrester	F. Gordon	336,311	Feb. 16	1773	464	34	767
Spark-arrester	H. Hennig	335,923	Feb. 9	1186	315	34	660
Spark-arrester	G. D. Hunter. (Reissue)	10,698	Mar. 9	1240	321	34	1155
Spark-arrester	W. H. Ledbetter	341,336	May 4	513	141	35	598
Spark-arrester	J. R. McCormick	344,391	June 29	2312	596	35	1455
Spark-arrester	J. H. Optenberg	352,063	Nov. 2	482	130, 131	37	550
Spark-arrester	O. T. Owings	352,485	Nov. 9	1063	286	37	665
Spark-arrester	W. T. Reed	352,353	Nov. 9	905	242	37	633
Spark-arrester	M. Rumely	353,379	Nov. 30	2308	617	37	922
Spark-arrester	R. Solano	353,271	Nov. 23	2156	577	37	888
Spark-arrester	C. G. Wilson	336,504	Feb. 16	2025	531	34	814
Spark arrester and conductor	T. J. Simpson	334,680	Jan. 19	1677	448	34	324
Spark arrester and consumer	W. Hogan	349,796	Sept. 28	1736	448	36	1393
Spark-arrester. Locomotive	A. Mitchell	354,339	Dec. 14	1021	271, 272	37	1200
Spark-ejecting device	H. M. Smith	334,202	Jan. 12	1009	268	34	195
Spark-extinguisher	O. J. Hoke	339,553	Apr. 6	652	158	35	117
Spatula and electric mouth-illuminator. Combined	A. R. S. Foote	339,754	Apr. 13	967	238	35	176
Speaking-springs. Producing	A. K. Virgil	344,465	June 29	2404	619	35	1472
Speaking-tube	A. S. Fontaine	336,479	Feb. 16	2000	524	34	809
Speaking-tube	J. Gorris	339,639	Apr. 13	804	197	35	147
Spectacle-frames. Mechanism for making	S. Z. De Ferranti	338,340	Mar. 23	1972	518, 519, 520	34	1305
Spectacles	W. M. Pyle	347,738	Aug. 17	1784	478	36	810
Spectacles. Instrument for measurements for	F. L. Miles	339,676	Apr. 13	857	210	35	157
Spectacles. Nose-piece for	J. J. Frawley	350,192	Oct. 5	133	38	37	28
Spectacles. Spring-holder for	E. R. Waddell	349,018	Sept. 14	663	170	36	1172
Speculum	W. D. Cooper	350,721	Oct. 12	879	235	37	167
Speculum	W. S. Watson	351,548	Oct. 26	2093	543	37	402
Speculum. Anal	P. P. Price	344,984	July 6	264	66	36	47
Speculum for the throat	J. J. and T. A. Cole	350,809	Oct. 12	1005	269	37	190
Speculum. Rectal	H. W. Hamilton	348,843	Sept. 7	404	110	36	1122
Speculum. Rectal	J. R. Hamilton	342,794	June 1	28	8	35	1011
Speech. Method of and apparatus for transmitting, reproducing, and recording	C. A. Bell	336,203	Feb. 16	1602	420, 421	34	739
Speed and station indicator. Automatic	F. A. Schmidt	344,993	July 6	283	71, 72	36	51
Speed and time recorder	C. H. Scharar	335,312	Feb. 2	318	83	34	498
Speed-changing mechanism	J. C. Henry	345,057	July 6	363	91, 92	36	66
Speed-controller	J. O. Wilson	345,754	July 20	1376	358	36	260
Speed-governor	F. A. Gale	346,472	Aug. 3	31	8	36	466

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Speed-governor	A. Lawrence	335,228	Feb. 2	206	53, 54	34	476
Speed-governor	R. McKenna	342,623	May 25	2316	612	35	959
Speed-governor. Centrifugal	M. R. Goding	334,581	Jan. 19	1540	412	34	299
Speed-indicator	K. W. Hedges	338,966	Mar. 30	2850	752	34	1466
Speed-indicator. Centrifugal	H. Herden	338,841	Mar. 30	2682	706	34	1436
Speed-indicator. Pneumatic	G. A. Rüng	336,069	Feb. 9	1379	365	34	694
Speed of shafting, machinery, &c. Apparatus for indicating the	W. B. Mason, E. J. Wescott, and W. L. Stevens.	334,960	Jan. 26	2035	543, 544	34	398
Speed-regulating device	J. Bevier	338,916	Mar. 30	2794	736	34	1455
Speed-regulator	A. Campbell	345,670	July 20	1260	326	36	240
Speed-regulator	A. Campbell	350,971	Oct. 19	1231	326, 327	37	238
Speed-regulator. Automatic	C. W. A. Koelkebeck	335,460	Feb. 2	518	135	34	534
Speed-regulator for shafts of circular saws, &c	W. A. Baker	334,329	Jan. 12	1191	320	34	229
Spelling-board	A. F. Smith	336,266	Feb. 16	1705	444	34	755
Spice and dredging box	L. Lemos	348,752	Sept. 7	293	78	36	1102
Spice-box	A. W. Cram	355,255	Dec. 28	2331	613	37	1464
Spike	A. Barrows	340,082	Apr. 20	1410	356	35	263
Spike	J. T. Nulty	352,683	Nov. 16	1597	431	37	773
Spike-machine	U. Haskin	347,295	Aug. 10	1132	303	36	681
Spikes. Machine for making	J. North	343,839	June 15	1538	389, 390	35	1300
Spindle: *See* Spinning-spindle.							
Spindle	E. E. Bradley	333,914	Jan. 5	568	154	34	106
Spindle	L. Wilson	340,848	Apr. 27	2490	656	35	465
Spindle and bobbin	C. H. Chapman	340,093	Apr. 20	1424	360	35	266
Spindle and flier	J. Good	349,709	Sept. 28	1602	413, 414	36	1369
Spindle and support therefor	T. H. Logan	345,157	July 6	497	127	36	91
Spindle-bearing	G. H. Allen	348,651	Sept. 7	162	45	36	1077
Spindle-bearing	J. T. Meats	342,873	June 1	140	34	35	1031
Spindle-bolster	W. T. Carroll	340,657	Apr. 27	2235	586	35	419
Spindle-bolster	W. T. Carroll	344,303	June 22	2186	561	35	1425
Spindle-bolster	W. T. Carroll	344,305	June 22	2188	561	35	1426
Spindle-bolster	W. T. and E. J. Carroll	340,656	Apr. 27	2234	586	35	419
Spindle-bolster	C. H. Chapman	340,658	Apr. 27	2235	586, 587	35	419
Spindle-bolster	C. H. Chapman	341,995	May 18	1399	374	35	784
Spindle-bolster	S. P. Greene and A. R. Young	334,371	Jan. 12	1247	336	34	239
Spindle-step	C. S. Trask	340,018	Apr. 13	1318	329	35	241
Spindle-support	E. J. Carroll	352,222	Nov. 9	735	196	37	600
Spindle-support	W. T. Carroll	344,304	June 22	2187	561	35	1425
Spindle-support	J. B. McPherson	353,409	Nov. 30	2360	628	37	932
Spinning and drawing machines. Scavenger mechanism for	W. A. Delmage	351,314	Oct. 19	1721	452	37	327
Spinning and twisting machine	W. Baird	341,631	May 11	921	244	35	685
Spinning and twisting machine. Cap	W. Riley	335,585	Feb. 2	418	108	34	516
Spinning fibrous material. Machine for	W. A. Delmage	344,170	June 22	2604	514	35	1392
Spinning-frame	J. E. Atwood	338,216	Mar. 16	1801	470	34	1266
Spinning frame. Convertible weft and warp	G. A. Haas	351,636	Oct. 26	2232	577	37	427
Spinning frame. Ring-	J. J. Bourcart	333,819	Jan. 5	441	119, 120	34	82
Spinning frame. Ring-	W. E. Sharples	343,074	June 1	423	108	35	1083
Spinning-frame. Ring-	M. Sherman	340,159	Apr. 20	1513	382	35	283
Spinning-frame ring and holder	J. W. Wattles	335,406	Feb. 2	446	116	34	521
Spinning frames. Mechanism for supporting and lubricating the spindles of ring-	J. W. Wattles	335,980	Feb. 9	1257	334	34	672
Spinning-frames. Saddle for the top rolls of	A. R. Young and V. T. Barber	347,910	Aug. 24	2038	539	36	865
Spinning-frames. Sleeve whirl spindle for	E. E. Bradley	333,822	Jan. 5	446	121	34	83
Spinning-frames. Spindle-support for	W. T. Carroll	352,733	Nov. 16	1399	378	37	736
Spinning frames. Thread-guide support for ring-	W. Jencks	334,441	Jan. 19	1343	364	34	263
Spinning frames. Traveler-cleaner for ring-	C. C. Diman	338,831	Mar. 30	2671	703	34	1433
Spinning-machine	J. J. Bourcart	335,208	Feb. 2	172	45, 46	34	472
Spinning-machine	W. M. Fox	339,961	Apr. 13	1264	315	35	232
Spinning-machine	J. S. Funk	336,850	Feb. 23	2504	660	34	908
Spinning-machine	J. S. Richardson	353,377	Nov. 30	2305	616	37	922
Spinning-machine	W. H. Rivers and E. Wright	355,210	Dec. 28	2260	596	37	1450
Spinning-machine	W. E. Sharples	353,887	Dec. 7	342	91	37	1070
Spinning-machine	J. Walmsley	334,830	Jan. 26	1873	499	34	369
Spinning machine. Ring-	G. E. Taft	333,898	Jan. 5	541	147	34	101
Spinning-machine-spindle bolster	H. F. Woodmancy	338,238	Mar. 16	1830	478	34	1272
Spinning-machine spindles. Bobbin-holder for	J. Davis	333,997	Jan. 12	687	188	34	137
Spinning-machines. Band-tightener for	W. T. Carroll	352,221	Nov. 9	734	196	37	600
Spinning-machines. Cop building mechanism for	J. W. Shepherd, W. Ayrton, and C. Siddall.	343,498	June 8	1074	268	35	1209
Spinning-machines. Covering for top rolls of	T. B. Dungan	352,911	Nov. 23	1638	440	37	790
Spinning-machines. Nipper-head for	E. S. Ormsby	342,032	May 18	1452	389	35	794
Spinning-machines. Saddle for top rolls of	E. Dixon	354,400	Dec. 14	1090	293	37	1213
Spinning-machines. Saddle for top rolls of	A. B. Taylor	352,634	Nov. 16	1266	341	37	709
Spinning-machines. Spindle and bobbin-support therefor for	E. W. Thomas	346,135	July 27	1899	491	36	364
Spinning-machines. Spindle-bearing for	H. P. Chase	354,887	Dec. 28	1802	476	37	1362
Spinning-machines. Spindle-bearing for	J. E. Tynan	349,826	Sept. 28	1783	461	36	1402
Spinning-machines. Spindle-bolster for	J. D. Colby	342,581	May 25	2245	596	35	946
Spinning-machines. Spindle-step for	W. A. Delmage	336,300	Feb. 16	1761	460	34	765
Spinning-machines. Spindle-support for	E. J. Carroll	350,038	Sept. 28	2057	531	36	1455
Spinning-machines. Spindle-support for	W. T. Carroll	350,039	Sept. 28	2057	532	36	1455
Spinning-machines. Spindle supporting and driving device for	J. E. Tynan	351,480	Oct. 26	1999	519, 520	37	383
Spinning-machines. Tension device for silk-	G. Singleton	340,631	Apr. 27	2193	577	35	412
Spinning-machines, &c. Top roll for	J. Booth	344,434	June 29	2370	610	35	1466
Spinning-machines. Top-roll saddle for	E. J., E. H., and W. T. Carroll	342,778	June 1	7	2, 3	35	1008
Spinning-machines. Top-roll saddle for	G. H. Clark	345,831	July 20	1486	385	36	279

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Spinning-machines. Yarn-separating device for	E. H. Cummings	345,888	July 20	1566	403	36	293
Spinning machinery. Covering for feed-rolls of	S. Bergstresser	333,813	Jan. 5	432	117	34	81
Spinning machinery. Kink-preventor for silk	J. A. Chapman	350,345	Oct. 5	327	93	37	66
Spinning-mule	W. R. Mayor	346,298	July 27	2130	548, 549	36	408
Spinning-mules. Apparatus for clearing waste from the spindles of	P. Aubin	335,498	Feb. 2	567	148	34	542
Spinning-ring	E. Leak	343,151	June 1	545	138	35	1106
Spinning-ring holder	C. E. Trowbridge	341,076	May 4	140	42	35	531
Spinning-spindle and bearing therefor	E. Dummer	336,903	Mar. 2	30	8	34	932
Spinning-spindles. Bolster for	J. H. Martin	347,814	Aug. 24	1896	505	36	840
Spiral springs. Machine for making	G. H. Scott	346,332	July 27	2168	557	36	415
Spirometer	G. W. Hall	343,310	June 8	781	195	35	1157
Spittoon. Adjustable fountain	J. M. Fletcher	349,704	Sept. 28	1591	411	36	1368
Splasher-holder	A. R. Smith	338,309	Mar. 23	1926	507	34	1297
Splice-bar	H. Greer	354,898	Dec. 28	1817	480	37	1365
Spoke-driver	L. Rakow	335,308	Feb. 2	311	82	34	497
Spoke-fitting machine	J. H. Mueller and J. Marx	348,922	Sept. 7	523	138	36	1143
Spoke-polishing machine	J. W. Allen	339,125	Apr. 6	2	1, 2	35	3
Spoke-socket	J. T. Gormly	340,571	Apr. 27	2111	544	35	399
Spoke-socket	C. S. Kershaw	354,792	Dec. 21	1667	441	37	1325
Spoke-socket	O. L. Neisler	344,455	June 29	2391	616	35	1470
Spoke-socket	H. H. Stevens	343,504	June 8	1060	270	35	1210
Spoke-socket	W. F. Whiton	339,721	Apr. 13	924	226	35	169
Spoke-socket	W. C. Williamson	345,015	July 6	314	79	36	58
Spoke-socket and tire-fastener. Combined	J. L. Johnston	349,434	Sept. 21	1230	319	36	1289
Spoke-throating machine	W. H. Doane	340,909	Apr. 27	2570	677	35	479
Spokes in wheels. Machine for securing	W. P. Bettendorf	335,882	Feb. 9	1125	297, 298	34	649
Sponge-holder and envelope-moistener	G. T. Hunsaker	350,368	Oct. 5	356	103	37	72
Spool	W. A. Fries	335,692	Feb. 9	847	224	34	599
Spool	W. A. Fries	335,749	Feb. 9	935	246	34	615
Spool	O. E. Wait	350,224	Oct. 5	182	52	37	37
Spool and bobbin	L. Stone	335,783	Feb. 9	989	263	34	625
Spool-blanks. Machine for cutting	W. H. Allen	344,931	July 6	187	48	36	35
Spool holder	F. W. Andree	352,728	Nov. 16	1394	377	37	735
Spool-holder	B. F. Baker	343,749	June 15	1439	359	35	1280
Spool-holder	G. E. Brooks	339,738	Apr. 13	946	231	35	172
Spool-holder	G. D. Crawford	341,891	May 18	1272	341	35	761
Spool-holder	S. Danelius	351,427	Oct. 26	1914	498	37	367
Spool-holder	A. A. Murphy	338,764	Mar. 30	2579	680	34	1417
Spool or bobbin	G. O. Boynton	343,361	June 8	874	220	35	1173
Spool or bobbin	F. M. Marcy	350,985	Oct. 19	1281	336	37	247
Spool or bobbin	O. E. Wait	344,928	July 6	185	47	36	35
Spooler-guide	A. J. Nichols	334,799	Jan. 26	1836	490	34	362
Spooling-machine	S. W. Goddard	355,161	Dec. 28	2191	578	37	1436
Spooling-machine	J. and A. Nelson	335,473	Feb. 2	531	139	34	536
Spooling-machine stop-motion	J. W. Foster	335,572	Feb. 9	679	179	34	569
Spooling-machines. Stop-motion for	G. P. Bosworth	350,033	Sept. 28	2052	529, 530	36	1454
Spooling-machines. Thread-cleaning device for	A. H. Bailey	345,475	July 13	942	237	36	175
Spoon	F. W. Commiskey	349,144	Sept. 14	837	213	36	1294
Spoon and fork blanks. Die for swaging	E. W. Shannon	349,609	Sept. 21	1466	378	36	1336
Spoon and scraper. Combined	E. J. Averill	339,514	Apr. 6	578	139	35	106
Spoon. Medical	W. H. Welsh	343,510	June 8	1087	272	35	1211
Spoon. Medicine	C. S. Dorr	353,055	Nov. 23	1856	501	37	828
Spoon. Medicine	W. R. Noé	350,499	Oct. 12	565	156	37	110
Spoon. Medicine	B. Sherwin	339,221	Apr. 6	148	39	35	28
Spoons. Manufacture of	W. Bradel	344,517	June 29	2489	641	35	1487
Spoons. Manufacture of	W. A. Warner	337,099	Mar. 2	288	76	34	980
Spout and case. Swiveled	D. H. Spencer, Jr.	352,583	Nov. 16	1190	322	37	696
Spout. Sap	C. C. Post	348,581	Sept. 7	67	19	36	1060
Spring:							
See Bed-spring. Rocking-chair spring.							
Buggy-spring. Side-bar spring.							
Car-spring. Thill-coupling spring.							
Carriage-spring. Tubular spring.							
Cushioning-spring. Vehicle-spring.							
Door-spring. Vehicle platform-spring.							
Elliptic spring. Wagon-spring.							
Furniture-spring. Wagon bolster-spring.							
Locomotive-spring. Wagon-seat spring.							
Metallic spring. Watch-case spring.							
Phaeton-spring. Window-spring.							
Spring	J. H. Davis	337,048	Mar. 2	222	59	34	966
Spring	N. H. Davis	337,669	Mar. 9	1063	274	34	1124
Spring	G. Goewey	339,762	Apr. 13	977	241	35	178
Spring	C. C. Hearle	338,267	Mar. 23	1870	491	34	1287
Spring	N. E. Spaulding	352,013	Nov. 2	412	112	37	535
Spring	J. L. Wells	336,774	Feb. 23	2406	632, 633	34	890
Spring-bending machine	J. W. Gray	343,123	June 1	502	127, 128	35	1097
Spring-bending machine	G. Norwood	339,803	Apr. 13	1026	254	35	188
Spring-bending machine	G. Norwood	339,804	Apr. 13	1028	255	35	188
Spring-bolt	G. Crouch	348,662	Sept. 7	160	48	36	1079
Spring chair and seat	T. D. Davis	333,998	Jan. 12	687	188	34	137
Spring-clasp	J. W. Holdsworth and J. B. Foley	338,526	Mar. 23	2227	584	34	1350
Spring-clasp	G. T. Moore	352,770	Nov. 16	1443	389	37	744
Spring-clasp	J. J. Unbehend	336,769	Feb. 23	2207	628	34	889
Spring-clasp	H. D. Wheatley	343,877	June 15	1591	405	35	1310
Spring-coupling. Elastic	F. O. Rogers	336,593	Feb. 23	2155	564	34	843
Spring-equalizer	A. Esp	348,272	Aug. 31	2564	689	36	968
Spring fastening-key	W. H. Horner	342,014	May 18	1425	380	35	788

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Spring-hanger	D. J. Owen	351,396	Oct. 26	1874	488	37	360
Spring-heads. Blank clip for	E. J. Hess	341,479	May 11	709	190	35	644
Spring-leaves. Machine for straightening and nibbing	P. N. French	345,629	July 13	1187	304, 305	36	220
Spring-lock	F. O. Phelps	347,957	Aug. 24	2115	563	36	879
Spring-making machine	T. Graether	351,975	Nov. 2	360	98	37	525
Spring-motor	G. W. Manson	340,799	Apr. 27	2430	639	35	455
Spring-motor	H. E. Marchand	337,177	Mar. 2	309	104	34	999
Spring-motor	W. M. Woodward	351,894	Nov. 2	232	66	37	501
Spring-roller	C. E. Brooks	350,656	Oct. 12	792	215	37	151
Spring-trap	J. Vasseur, Jr	334,311	Jan. 12	1167	313	34	225
Springs. Machine for making spiral wire	H. S. Hall	350,979	Oct. 19	1245	331, 332	37	241
Springs. Making isochronal hair	C. E. Fritts	350,584	Oct. 12	679	185	37	130
Springless lock	A. Park	345,072	July 6	383	96, 97	36	70
Sprinkler: *See* Automatic sprinkler. Rotary sprinkler. Lawn-sprinkler. Street-sprinkler. Potato-sprinkler. Water-sprinkler.							
Sprinkler	W. S. Elstun	345,958	July 20	1659	428	36	311
Sprinkler	M. Goldman	334,655	Jan. 19	1645	439	34	318
Sprinkler	W. H. Moore	353,370	Nov. 30	2294	613	37	920
Sprinkler	J. A. White and J. W. Gray	347,405	Aug. 17	1297	346	36	721
Square	A. S. Upson and H. A. Cowles	343,616	June 15	1242	312	35	1247
Square and bevel. T-	H. E. Remick	345,806	July 20	1452	376	36	273
Square and gage. Adjustable	W. H. Boyer	341,126	May 4	213	64	35	544
Square and protractor for builders' use	A. Nilsen	339,682	Apr. 13	867	213	35	159
Square bevel attachment	J. M. McKinney	335,293	Feb. 2	293	77, 78	34	493
Square. Folding	A. E. Seltzer	342,849	June 1	102	26	35	1025
Square for book-binders' use. T-	A. Stätter and J. Hauser	354,026	Dec. 7	548	149	37	1106
Square, level, and bevel. Combined	J. A. Finley	339,158	Apr. 6	57	18	35	14
Square-miter and circle-scriber combined	W. F. Seargeant	338,444	Mar. 23	2121	555	34	1330
Square. Tailor's	A. E. Bearrie	350,104	Oct. 5	14	4	37	5
Square. Try-	M. P. Ward	351,820	Nov. 2	126	35	37	482
Square. Try and bevel	A. S. Vose	345,196	July 6	545	140	36	99
Squares. Adjustable head for T-	E. L. Deane	349,697	Sept. 28	1580	409	36	1365
Squares. Weather-boarding attachment for try-	W. F. Seargeant	349,905	Sept. 28	1879	485	36	1422
Squaring-shears	A. O. Kittredge and F. M. Leavitt	345,639	July 13	1201	311, 312	36	222
Squeezer and strainer	W. A. Johnson	344,446	June 29	2383	613	35	1469
Squeezer and strainer. Combined	J. Mikel	337,195	Mar. 2	408	106	34	1001
Squib	E. J. Cotter	337,307	Mar. 2	576	151	34	1032
Squib-box, &c. Miner's	J. D. Williams	346,834	Aug. 3	474	131	36	553
Squib-holders. Device for making miners'	H. Stride	343,864	June 15	1576	400, 401	35	1307
Stage scenery. Rotary system of	R. G. Guptill	355,075	Dec. 28	2062	542	37	1410
Staining machine	C. Bechly	348,375	Aug. 31	2703	726	36	997
Stair-case	H. Stollwerck	353,605	Nov. 30	2645	706	37	985
Stair-rod securer	T. A. Goodwin	347,792	Aug. 24	1862	496	36	833
Stair-rod securer	D. Keiser	338,978	Mar. 30	2870	759	34	1470
Stair-rod securer	D. Walker	351,227	Oct. 19	1602	420	37	306
Stair-rod securer	A. W. Wheaton	349,550	Sept. 21	1390	360	36	1320
Stairway. Spiral	W. Horrocks	348,908	Sept. 7	501	133	36	1139
Stairway. Spiral	G. V. Marshall	340,338	Apr. 20	1780	456	35	331
Stairways. Fire-proof shutter for	H. Dale	350,664	Oct. 12	802	218	37	153
Stalk and weed cutter	J. J. Faires	333,938	Jan. 5	605	165	34	113
Stalk-cutter	J. Q. Adams	353,010	Nov. 23	1780	479	37	815
Stalk-cutter	B. C. Bradley	353,398	Nov. 30	2341	625	37	998
Stalk-cutter	J. H. Jones	336,811	Feb. 23	2454	644	34	868
Stalk-cutter	J. H. Jones	337,335	Mar. 2	609	160	34	1038
Stalk-cutter	J. B. Neff	344,850	July 6	73	19	36	14
Stalk-cutting machine	E. P. Lynch	348,167	Aug. 24	2401	644	36	933
Stamp and envelope moistener	T. Marsh	348,403	Aug. 31	2740	735	36	1004
Stamp and other articles. Handle-lock for	W. J. Card	347,685	Aug. 17	1713	457	36	797
Stamp battery. Circular ore-	A. B. Paul	334,675	Jan. 19	1671	446	34	323
Stamp. Brand-	A. H. Bryant	350,863	Oct. 12	1084	289	37	205
Stamp-canceler	E. A. Luzenberg and E. Sachs	341,425	May 4	630	172	35	619
Stamp-canceler	J. H. G. Witt and J. J. F. Popp	351,348	Oct. 19	1763	463	37	335
Stamp. Dating-	B. B. Hill	344,904	July 6	153	39	36	28
Stamp for punching checks, &c	J. M. Hopkins	340,316	Apr. 20	1752	446, 447	35	326
Stamp. Hand-	V. H. Emerson	334,008	Jan. 12	702	193	34	139
Stamp. Hand-	B. B. Hill	339,293	Apr. 6	257	64, 65	35	48
Stamp. Hand-	B. B. Hill	344,903	July 6	152	38	36	28
Stamp. Hand-	B. B. Hill	348,211	Aug. 31	2489	667	36	953
Stamp. Hand-	B. B. Hill. (Reissue)	10,740	June 29	2866	741	35	1500
Stamp. Hand-	F. M. Ironmonger	344,581	June 29	2566	665	35	1503
Stamp. Hand-	A. D. Joslin	342,362	May 25	1940	512, 513	35	891
Stamp. Hand-	F. C. Lidke	345,064	July 6	374	94	36	68
Stamp. Hand-	S. J. Marden	343,825	June 15	1524	384	35	1297
Stamp. Hand-	J. C. Powell	346,065	July 20	1805	466	36	336
Stamp. Hand-	E. H. Rogers, Jr	353,161	Nov. 23	2005	537	37	858
Stamp-mills. Cam for	C. A. Thies	336,447	Feb. 16	1958	512	34	802
Stamp or label holder, moistener, and affixer	T. A. McDonald	342,451	May 25	2063	544	35	913
Stamp. Printing-	H. Holt	337,331	Mar. 2	604	159	34	1038
Stamp. Printing-	A. H. and J. H. Rogers	341,771	May 11	1106	293	35	722
Stamp. Registering ticket-	B. P. Roberts	336,162	Feb. 16	1539	406	34	727
Stamp. Self-inking hand-	B. B. Hill	338,153	Mar. 16	1720	449	34	1250
Stamp. Self-inking hand-	L. K. Scotford	346,690	Aug. 3	301	82	36	520
Stamps. Apparatus for canceling	G. Bancroft and J. H. Horsfall	345,566	July 13	1100	281	36	203
Stamps, &c. Apparatus for moistening	B. Gründler	335,580	Feb. 9	690	182, 183	34	571
Stamps, &c. Apparatus for separating, damping, and fixing postage-	A. Browett	340,856	Apr. 27	2501	659	35	467

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Stamps. Machine for affixing postage	J. L. Shaw	337,450	Mar. 9	796	202	34	1076
Stamping hard or irregular surfaces	J. S. Anderson	346,632	Aug. 3	234	.....	36	505
Stanchion	T. G. Fleming	349,578	Sept. 21	1427	369	36	1328
Stanchion	A. C. Greene	348,964	Sept. 14	579	154	36	1159
Stanchion	R. C. Mead	341,107	May 4	181	56	35	538
Stanchion	C. E. Walton	344,553	June 29	2538	656	35	1496
Stanchion. Cattle	C. Risser	342,306	May 18	1841	487	35	864
Stanchion. Cattle	N. H. Sanborn	342,389	May 25	1979	522	35	897
Stand:							
See Album-stand. Music-stand.							
Barrel-stand. Plant-stand.							
Bicycle-stand. Power-stand.							
Blacking-stand. Printer's case-stand.							
Camera-stand. Railway switch-stand.							
Cask-stand. Sewing-machine stand.							
Clothes-rack stand. Show-stand.							
Foot-power stand. Swinging plant-stand.							
Garment-stand. Switch-stand.							
Hat-stand. Toilet-stand.							
Inkstand. Wash-stand.							
Lace and embroidering stand. Wash-tub stand.							
Staple-blank	J. T Jones	339,191	Apr. 6	104	29	35	21
Staple-driving implement	J. W. Dillon	350,420	Oct. 5	420	120	37	83
Staple-fastener	F. A. Smith, Jr	342,471	May 25	2094	553	35	918
Staple-fastener	J. F. Thayer	343,209	June 8	632	157	35	1131
Staple forming and driving machine	P. A. Coupal	347,333	Aug. 17	1183	316, 317	36	700
Staple. Hame	W. A. Heywood	338,073	Mar. 16	1605	418	34	1227
Staple-holding implement	C. E. Van Dusen	337,212	Mar. 2	438	115	34	1007
Staple-machine	G. Doolittle	351,628	Oct. 26	2222	574, 575	37	424
Staple-machine	J. Thomson	334,909	Jan. 26	1971	524, 525	34	387
Staple-machine	J. H. Vinton	345,464	July 13	928	233, 234	36	172
Staple-making machine	E. O. Ely	351,629	Oct. 26	2223	575	37	425
Staples in papers, &c. Machine for inserting metallic	I. W. Heysinger	349,093	Sept. 14	769	196	36	1191
Staples. Machine for making and driving	J. Coupal and R. Stephenson	351,361	Oct. 26	1791	470, 471	37	346
Staples. Machine for making looped wire	I. W. Heysinger	340,578	Apr. 27	2120	546	35	401
Staples, &c. Stick for holding	I. W. Heysinger	349,094	Sept. 14	773	196	36	1192
Stapling-machine	A. B. Smith	335,154	Feb. 2	74	20, 21	34	454
Starch and other substances. Treating	J. C. Schuman	344,410	June 29	2337	601	35	1460
Starch-clearing, &c., woven fabrics	I. E. Palmer	346,602	Aug. 3	192	51, 52	36	497
Starch, &c. Disintegrator for the reduction of grain in the manufacture of	J. C. Schuman	346,320	July 27	2166	556	36	414
Starch from grain. Preparing	J. C. Schuman	345,926	July 20	1615	381	36	303
Starch from grain. Preparing	J. C. Schuman	345,927	July 20	1617	.....	36	303
Starch. Laundry	W. H. Midgley. (Reissue.)	10,722	May 11	1233	329	35	746
Starch. Machine for packing	P. H. Grimm	354,634	Dec. 21	1446	384	37	1283
Starch. Manufacture of	W. F. Birge	345,409	July 13	847	212	36	158
Starch. Manufacture of	J. C. Schuman	334,090	Jan. 12	827	226, 227	34	161
Starch. Manufacture of	J. C. Schuman	341,282	May 4	432	118	35	585
Starch. Manufacture of	J. C. Schuman	341,283	May 4	434	118	35	585
Starch. Manufacture of	J. C. Schuman	344,411	June 29	2339	602	35	1461
Starch. Manufacture of	J. C. Schuman	344,412	June 29	2340	602	35	1461
Starch. Manufacturing	E. E. Duryea	345,417	July 13	862	215	36	161
Starch. Manufacturing malt liquors from	W. T. Jebb	347,611	Aug. 17	1589	422	36	775
Starch. Manufacturing malt liquors from	W. T. Jebb	347,612	Aug. 17	1591	.....	36	775
Starch. Preparing	G. Luthy	346,820	Aug. 3	449	124	36	547
Starch to improve its quality. Composition to be added to	H. A. Gray	337,490	Mar. 9	846	.....	34	1085
Starch, &c. Treating and recovering the glutinous and fine nitrogenous matter resulting from the manufacture of	W. Duryea	340,705	Apr. 27	2299	.....	35	430
Starch upon starch runs or planes. Apparatus for liquefying	E. E. Duryea	345,418	July 13	864	216	36	161
Starching-machine	W. H. Garlock	345,043	July 6	347	88	36	63
Starching-machine	S. W. Holbrook	345,137	July 6	471	120	36	86
Starching-machine	C. Lehmann	344,662	June 29	2674	669	35	1524
Starching-machine	H. E. Smith	345,995	July 20	1713	441	36	320
Starching-machine	J. H. Toof	355,232	Dec. 28	2299	606	37	1458
Starching-machine	F. M. Watkins	351,674	Oct. 26	2280	590	37	436
Starching washed goods	E. A. E. Meyer	348,762	Sept. 7	308	82	36	1104
Station-indicator	C. E. A. Brandes	349,141	Sept. 14	833	212	36	1204
Station-indicator	G. T. Clark	354,771	Dec. 21	1642	435	37	1320
Station-indicator	W. Fuller	338,398	Mar. 23	2061	540	34	1319
Station-indicator	W. H. Pierce	354,929	Dec. 28	1860	492	37	1373
Station-indicator	G. E. Schlegelmilch	334,902	Jan. 26	1963	522	34	385
Station-indicator	W. S. Schultz	341,949	May 18	1343	359	35	774
Station-indicator	R. Senftner	352,576	Nov. 16	1181	319, 320	37	694
Station-indicator	E. R. Thurman	350,784	Oct. 12	957	257, 258	37	182
Station-indicator	H. R. Westervelt	348,366	Aug. 31	2683	722	36	993
Station-indicator	D. Wilson	335,004	Jan. 26	2094	558, 559	34	409
Station indicator. Railway	J. Schmid	334,478	Jan. 19	1400	378	34	273
Stave and hoop. Pail	I. L. G. Rice	342,135	May 18	1601	427, 428	35	822
Stave-dressing machine	C. Sommer	349,323	Sept. 21	1058	272	36	1256

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Stave-jointing attachment for molding-machines	A. M. Jewell	335,756	Feb. 9	944	248	34	616
Stave-jointing machine	G. W. Packer	347,371	Aug. 17	1250	332	36	711
Stave-jointing machine	R. C. Pope	347,059	Aug. 10	799	213	36	620
Staves. Machine for cutting sheet	J. A. Waterman and J. W. Chapman	340,745	Apr. 27	2360	621	35	440
Staves. Machine for jointing compressed bent	E. M. Jewett	335,074	Jan. 26	2201	585	34	427
Stay for garments	H. Moschcowitz	343,476	June 8	1049	261	35	1204
Stay for garments	H. and S. M. Moschcowitz	343,477	June 8	1050	261	35	1204
Stay for garments	B. Seligman	347,833	Aug. 24	1928	512	36	846
Stay-roller	W. J. Lane	350,751	Oct. 12	914	246	37	174
Stays. Folder for covering	C. F. Littlejohn	345,793	July 20	1431	370	36	270
Steam-accumulator	P. Twohig	338,237	Mar. 16	1829	478	34	1272
Steam and gas engine	D. Frisbie and E. M. Lockwood	349,705	Sept. 28	1593	412	36	1368
Steam and hot-water boiler	C. B. Rice	351,070	Oct. 19	1391	365, 366	37	267
Steam and hot-water heater. Combined	W. J. Bowerman	343,431	June 8	974	243	35	1191
Steam and water gage	R. Stretch	350,510	Oct. 12	579	160, 161	37	113
Steam. Apparatus for generating	P. E. Jay	344,277	June 22	2150	551	35	1419
Steam-boiler	R. W. Aitken	344,071	June 22	1866	479	35	1367
Steam-boiler	R. B. Ayres	346,837	Aug. 3	478	132	36	554
Steam-boiler	J. Baird	334,156	Jan. 12	931	251, 252, 253	34	180
Steam-boiler	G. L. Bottum	352,513	Nov. 16	1100	257	37	680
Steam-boiler	F. O. Burrows	348,315	Aug. 31	2621	706	36	981
Steam-boiler	T. E. Button	335,680	Feb. 9	827	220	34	595
Steam-boiler	W. Caldwell	336,036	Feb. 9	1333	355	34	685
Steam-boiler	A. Calhoun	341,220	May 4	349	97	35	569
Steam-boiler	A. Catchpole	354,392	Dec. 14	1081	290	37	1211
Steam-boiler	W. J. Chapman	354,686	Dec. 21	1521	403	37	1297
Steam-boiler	D. F. Coghlan and T. H. Sears	350,912	Oct. 19	1148	306	37	223
Steam-boiler	J. W. Connery	349,568	Sept. 21	1414	366	36	1325
Steam-boiler	W. Cooke	341,132	May 4	225	67	35	546
Steam-boiler	G. H. Cooper	339,383	Apr. 6	383	94	35	71
Steam-boiler	G. H. Corliss	333,833	Jan. 5	464	126	34	86
Steam-boiler	W. T. Davis	344,253	June 22	2115	540	35	1413
Steam-boiler	W. Dougherty and J. P. Feeley	337,138	Mar. 2	343	89	34	989
Steam-boiler	P. F. Dundon. (Reissue)	10,758	Aug. 17	1818	484	36	816
Steam-boiler	J. M. Dunn and W. E. Sidwell	342,738	May 25	2486	660	35	990
Steam-boiler	W. B. Dunning	340,941	Apr. 27	2614	689	35	487
Steam-boiler	W. M. Ferry	341,564	May 11	823	220	35	665
Steam-boiler	P. Fitzgibbons	354,467	Dec. 14	1183	317	37	1229
Steam-boiler	E. Frey, G. F. Motter, and J. Reichley	333,846	Jan. 5	477	129	34	89
Steam-boiler	J. G. S. Garwood	339,093	Mar. 30	3047	805	34	1498
Steam-boiler	J. L. Gill, Jr.	335,750	Feb. 9	936	247	34	615
Steam-boiler	H. C. Goulding	349,039	Sept. 14	688	177	36	1177
Steam-boiler	R. Harell	348,007	Aug. 24	2177	579	36	890
Steam-boiler	J. Hartley	335,696	Feb. 9	852	225, 226	34	599
Steam-boiler	J. Hartley	335,697	Feb. 9	855	226, 227	34	600
Steam-boiler	E. Heitmann	341,749	May 11	1077	287	35	716
Steam-boiler	M. E. Herbert	336,315	Feb. 16	1776	465	34	768
Steam-boiler	S. C. Higgins	342,747	May 25	2496	664	35	992
Steam-boiler	G. Hilbirt	349,159	Sept. 14	857	219	36	1208
Steam-boiler	C. N. Hitchcock	352,825	Nov. 16	1517	408, 409	37	757
Steam-boiler	E. Huber	351,441	Oct. 26	1935	504	37	370
Steam-boiler	D. W. Kellogg and W. A. Kirby	355,176	Dec. 28	2211	584	37	1440
Steam-boiler	R. W. King	345,849	July 20	1511	391	36	283
Steam-boiler	D. M. Kirby	340,327	Apr. 20	1769	452	35	329
Steam-boiler	W. A. Kirby	355,178	Dec. 28	2214	584	37	1441
Steam-boiler	C. A. Knight	333,956	Jan. 5	628	171, 172	34	118
Steam-boiler	T. Main	352,142	Nov. 9	616	163, 164	37	580
Steam-boiler	G. Marshall	342,525	May 25	2177	576, 577	35	932
Steam-boiler	J. H. McCormack	351,931	Nov. 2	298	82, 83	37	512
Steam-boiler	H. J. Mitchell	334,673	Jan. 19	1667	445	34	322
Steam-boiler	E. D. More	353,752	Dec. 7	137	38	37	1032
Steam-boiler	J. A. Mumford	350,440	Oct. 5	463	130	37	89
Steam-boiler	T. Nesom	347,502	Aug. 17	1436	381	36	745
Steam-boiler	J. N. Paxman and H. G. Plane	351,201	Oct. 19	1571	412, 413	37	301
Steam-boiler	T. Poore	336,430	Feb. 16	1932	506, 507	34	798
Steam-boiler	M. and W. N. Rumely	347,384	Aug. 17	1272	338	36	715
Steam-boiler	F. Scherr	336,441	Feb. 16	1948	510, 511	34	801
Steam-boiler	F. Scherr	338,618	Mar. 23	2351	618	34	1370
Steam-boiler	F. Scherr	339,478	Apr. 6	527	128	35	98
Steam-boiler	C. S. Shepard	333,683	Jan. 5	251	68	34	49
Steam-boiler	E. C. Smith	343,258	June 8	706	175	35	1144
Steam-boiler	J. C. Sotter	336,497	Feb. 16	2018	529	34	813
Steam-boiler	H. Spence	338,113	Mar. 16	1669	434	34	1240
Steam-boiler	G. Steele	347,014	Aug. 10	737	196	36	608
Steam-boiler	H. H. Thornton	341,705	May 11	1026	271	35	706
Steam-boiler	W. L. Tobey	338,805	Mar. 30	2651	693	34	1426
Steam-boiler	A. Yaconbenco	340,183	Apr. 20	1557	394	35	290
Steam-boiler agitator	H. B. Meech	334,182	Jan. 12	965	261	34	186
Steam-boiler and furnace	C. N. Bacon	346,083	July 27	1831	473	36	351
Steam-boiler and furnace	W. S. Post and H. D. Sawyer	351,338	Oct. 19	1749	461	37	332
Steam-boiler and furnace	W. S. Post and H. D. Sawyer	351,652	Oct. 26	2251	583	37	430

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Pages.
Steam-boiler and pipe-coupling	C. R. Manville	334,959	Jan. 26	2034	543	34	398
Steam-boiler attachment	C. G. Comegys	348,546	Sept. 7	8	2	36	1050
Steam-boiler attachment	J. Mitchell	335,947	Feb. 9	1216	323	34	665
Steam-boiler bracket	T. Cunningham	350,416	Oct. 5	415	119	37	82
Steam-boiler filter	J. Nickle and A. Nelson	335,948	Feb. 9	1217	323, 324	34	666
Steam-boiler furnace	A. R. Jones	352,327	Nov. 9	871	234	37	626
Steam-boiler indicator	G. Hodgson	344,905	July 6	155	30	36	28
Steam-boiler. Low-pressure	H. Davey	338,494	Mar. 23	2188	572	34	1343
Steam-boiler. Magazine	W. B. Dunning	349,699	Sept. 28	1581	410	36	1366
Steam-boiler. Multitubular	E. Lagosse and J. Bouché	337,506	Mar. 9	865	219, 220	34	1088
Steam-boiler. Multitubular	F. S. Morris	338,861	Mar. 30	2706	712	34	1440
Steam-boiler. Portable	R. Harell	350,566	Oct. 12	685	186	37	131
Steam-boiler. Portable	P. Holtzmann and R. Mayer	336,113	Feb. 16	1458	384	34	715
Steam-boiler. Sectional	D. L. Adams	349,918	Sept. 28	1892	489, 490	36	1425
Steam-boiler. Sectional	A. Craik	344,568	Jan. 19	1524	408	34	295
Steam-boiler. Sectional	W. H. Wilson	338,128	Mar. 16	1686	438, 439	34	1244
Steam-boiler. Sectional	R. R. Zell. (Reissue)	10,695	Mar. 2	636	167	34	1044
Steam-boiler. Sectional flasher	A. W. Van Dorston	339,950	Apr. 13	1220	303	35	224
Steam-boiler sediment-receiver	C. W. Bowers	335,559	Feb. 9	661	174	34	566
Steam-boiler water-indicator	L. Mertens	335,139	Feb. 2	57	16	34	451
Steam-boilers. Apparatus for feeding	T. T. Clarke	346,146	July 27	1920	495	36	368
Steam-boilers. Apparatus for producing circulation in	W. Craig	351,044	Oct. 19	1360	357, 358	37	261
Steam boilers. Apparatus for returning and feeding water to	T. J. Kieley. (Reissue.)	10,708	Apr. 6	758	187	35	133
Steam-boilers. Bridge-wall for the fire-beds of	H. Schneider	345,809	July 20	1456	377	36	274
Steam-boilers. Compound water-gage for	D. Pyke	347,303	Aug. 10	1151	298	36	684
Steam-boilers. Device for preventing the explosion of	B. Mever	351,121	Oct. 19	1462	383	37	280
Steam-boilers. Electric safety attachment for	R. Reichling	352,203	Nov. 9	711	190	37	596
Steam-boilers. Header for	J. Hartley	350,361	Oct. 5	347	100	37	70
Steam-boilers. Header for	J. Hartley	354,902	Dec. 28	1922	482	37	1366
Steam-boilers. High and low water alarm for	W. A. Kitts	341,852	May 11	1212	325	35	742
Steam-boilers. Leveling apparatus for	J. M. Kramer	339,790	Apr. 13	1011	249, 250	35	185
Steam-boilers, &c. Tube-sheet for	H. Warden	352,380	Nov. 9	938	251	37	640
Steam-boilers Water-diaphragm for	W. Titcomb	339,599	Apr. 6	738	181	35	129
Steam-cylinder	F. F. Schofield	351,657	Oct. 26	2259	585	37	432
Steam-engine	W. S. Arnold. (Reissue)	10,707	Apr. 6	756	187	35	133
Steam-engine	J. S. Ash	347,219	Aug. 10	1028	274	36	662
Steam-engine	H. F. Bayne	344,432	June 29	2367	609	35	1466
Steam-engine	A. Bown	339,135	Apr. 6	24	7	35	7
Steam-engine	T. Brantley	336,965	Apr. 13	1240	309	35	227
Steam-engine	W. Brown	341,549	May 11	808	215, 216	35	662
Steam-engine	M. Burkley	333,920	Jan. 5	577	156	34	108
Steam-engine	N. F. Burnham	336,837	Feb. 23	2488	654, 655	34	905
Steam-engine	C. R. Crane	342,782	June 1	12	4	35	1009
Steam-engine	D. L. Cross	342,335	May 25	1890	500, 501	35	883
Steam-engine	D. F. A. Decaix	351,097	Oct. 19	1430	375	37	274
Steam-engine	J. B. Eads	349,573	Sept. 21	1421	367	36	1327
Steam-engine	F. O. Elliott	346,741	Aug. 3	363	97, 98	36	531
Steam-engine	E. D. Gilbert	348,458	Aug. 31	2821	758	36	1019
Steam-engine	A. Gram	352,537	Nov. 16	1128	305	37	684
Steam-engine	A. F. Hall	347,344	Aug. 17	1211	324	36	705
Steam-engine	A. F. Hall	350,736	Oct. 12	897	240	37	170
Steam-engine	L. W. Hardy	335,191	Feb. 2	148	38	34	467
Steam-engine	R. G. Harris	349,275	Sept. 14	1006	257	36	1238
Steam-engine	W. M. Henderson	339,292	Apr. 6	253	63, 64	35	47
Steam-engine	W. M. Henderson	347,874	Aug. 24	1986	526	36	855
Steam-engine	C. A. Jacobs	348,563	Sept. 7	40	12	36	1055
Steam-engine	T. Jenni	338,076	Mar. 16	1609	419	34	1228
Steam-engine	I. R. Kern	347,616	Aug. 17	1597	424	36	777
Steam-engine	H. Knebel	349,888	Sept. 28	1861	489	36	1419
Steam-engine	W. J. Lane	351,986	Nov. 2	375	102, 103	37	528
Steam-engine	M. N. Lynn	335,530	Feb. 2	612	159, 160, 161	34	549
Steam-engine	J. S. McCoy	343,385	June 8	917	229	35	1181
Steam-engine	J. T. Metcalfe	337,184	Mar. 2	407	106	34	1001
Steam-engine	J. T. Metcalfe	343,542	June 8	1127	284, 285	35	1218
Steam-engine	W. H. Morrison	344,003	June 22	1758	453	35	1349
Steam-engine	F. C. Morton	349,171	Sept. 14	871	223	36	1211
Steam-engine	D. Pattee	337,860	Mar. 16	1313	341	34	1174
Steam-engine	G. L. Peabody	344,593	June 29	2585	666	35	1506
Steam-engine	G. W. Price	337,518	Mar. 9	882	224, 225	34	1091
Steam-engine	G. E. Rider	352,150	Nov. 9	630	167	37	582
Steam-engine	O. F. Rodehaver	339,074	Mar. 30	3017	797, 798	34	1493
Steam-engine	P. S. Rush	346,616	Aug. 3	213	58	36	502
Steam-engine	W. Schmidt	348,144	Aug. 24	2364	634	36	926
Steam-engine	I. A. Turner	336,025	Feb. 9	1318	349	34	683
Steam-engine	I. Vernon	345,009	July 6	207	77	36	56
Steam-engine	B. T. Webb	339,506	Apr. 6	563	136	35	104
Steam-engine	H. H. Westinghouse	340,021	Apr. 13	1323	331	35	242

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Steam-engine	H. H. Westinghouse	340,022	Apr. 13	1326	331	35	242
Steam-engine	W. Wilson	339,961	Apr. 13	1234	307	35	226
Steam-engine	C. C. Worthington	341,534	May 11	779	209, 210	35	658
Steam-engine. Compound	G. C. Kidder and W. M. Ferry	350,537	Oct. 12	610	169	37	118
Steam-engine. Compound	J. Richards	350,446	Oct. 5	472	133, 134	37	91
Steam-engine dash-pot	J. Young	337,644	Mar. 9	1033	265	34	1119
Steam-engine. Fireless	M. Honigmann	337,062	Mar. 2	237	63	34	969
Steam-engine indicator	C. W. Barnaby	343,291	June 8	756	188, 189	35	1152
Steam-engine indicator	W. F. Brown	347,088	Aug. 10	851	226	36	629
Steam-engine indicator	F. R. Low	350,069	Sept. 28	2106	545	36	1464
Steam-engine indicator	J. Rae	348,414	Aug. 31	2753	739	36	1007
Steam-engine indicator-diagrams. Instrument for measuring the mean height of	E. Kimmel and E. E. Claussen	336,812	Feb. 23	2455	644	34	899
Steam-engine indicators. Device for operating	J. R. Goddard	337,147	Mar. 2	353	91	34	991
Steam-engine lubricator	W. H. Craig	340,486	Apr. 20	1986	509, 510	35	369
Steam-engine lubricator	C. Friederici	336,045	Feb. 9	1350	357	34	688
Steam engine or pump	W. C. Salmon	333,675	Jan. 5	236	64, 65	34	46
Steam engine or pump	W. C. Salmon	347,644	Aug. 17	1660	440	36	768
Steam-engine. Oscillating	S. W. Hempsted	346,996	Aug. 10	701	186	36	603
Steam-engine. Oscillating	M. Ulrich	338,890	Mar. 30	2757	726	34	1448
Steam-engine. Oscillating	F. J. Waters	340,689	Apr. 27	2276	600, 601	35	426
Steam-engine. Reciprocating	M. Geary	347,104	Aug. 10	871	230, 231	36	633
Steam-engine recorder	J. J. and H. R. Illingworth	334,778	Jan. 26	1811	481	34	358
Steam-engine recorder	J. J. and H. R. Illingworth	334,779	Jan. 26	1812	482	34	358
Steam-engine. Rotary	J. E. Mills	343,831	June 15	1530	386, 387	35	1298
Steam-engine slide	J. G. Schumacher	334,811	Jan. 26	1852	493	34	365
Steam-engine stuffing-box	G. H. Corliss	333,532	Jan. 5	463	135	34	66
Steam-engines. Automatic stop for	G. Parker	337,611	Mar. 9	993	255	34	1112
Steam-engines. Driving	M. Honigmann	340,718	Apr. 27	2319	610, 611	35	433
Steam-engines. Mechanism for regulating	H. J. Johnson	335,933	Feb. 9	1197	318, 319	34	662
Steam-engines. Pitman attachment for multiple-cylinder	M. N. Lynn	334,025	Jan. 12	731	200	34	144
Steam-engines. Reciprocating balance for	C. Louque	350,068	Sept. 28	2105	544	36	1464
Steam-generating furnace	W. M. Fuller	341,470	May 11	701	187, 188	35	642
Steam-generator	W. D. Adams	340,408	Apr. 20	1876	482	35	350
Steam-generator	W. D. Adams	341,122	May 4	207	63	35	543
Steam-generator	G. L. Allen	341,716	May 11	1038	275	35	709
Steam-generator	B. T. Babbitt	340,188	Apr. 20	1566	396	35	292
Steam-generator	B. T. Babbitt	348,093	Aug. 24	2302	617	36	914
Steam-generator	M. E. Beasley	341,721	May 11	1043	277	35	710
Steam-generator	J. F. Belleville	336,282	Feb. 16	1729	452, 453	34	759
Steam-generator	T. Craney	344,635	June 29	2644	684	35	1518
Steam-generator	W. P. Crater	353,667	Dec. 7	19	6	37	1010
Steam-generator	J. B. Doolittle	355,152	Dec. 28	2174	574	37	1432
Steam-generator	T. Drake	347,326	Aug. 10	1068	291	36	673
Steam-generator	W. T. Eastman	340,106	Apr. 20	1437	363	35	268
Steam-generator	N. Eaton	350,483	Oct. 12	540	150	37	107
Steam-generator	J. A. Eno	344,522	June 29	2496	644	35	1488
Steam-generator	W. H. Farris	349,426	Sept. 21	1219	316, 317	36	1287
Steam-generator	J. P. Forbes	345,375	July 13	798	201	36	149
Steam-generator	C. Gorton	334,657	Jan. 19	1647	440	34	319
Steam-generator	T. Green	344,268	June 22	2137	547, 548	35	1416
Steam-generator	G. G. M. Hardingham	348,672	Sept. 7	193	51, 52	36	1082
Steam-generator	H. Hayes and B. P. Bonnell	352,319	Nov. 9	863	232	37	625
Steam-generator	W. A. Hodgkins	334,950	Jan. 26	2023	540	34	396
Steam-generator	A. Horn	336,114	Feb. 16	1459	385	34	715
Steam-generator	W. E. Kelly	350,201	Oct. 5	145	42, 43	37	31
Steam-generator	W. E. Kelly	350,202	Oct. 5	147	44	37	31
Steam-generator	O. Kelsey	335,134	Feb. 2	50	13, 14	34	449
Steam-generator	J. R. Moore	337,073	Mar. 2	251	67	34	972
Steam-generator	W. H. Page	342,875	June 1	141	34, 35	35	1031
Steam-generator	L. W. Pond	340,060	Apr. 13	1372	344	35	251
Steam-generator	N. W. Pratt	338,676	Mar. 23	2435	642	34	1384
Steam-generator	W. Sellers	342,544	May 25	2201	583	35	937
Steam-generator	H. Stutzman and D. Cole	351,945	Nov. 2	315	87	37	516
Steam-generator	J. E. Taylor	345,333	July 13	739	187	36	139
Steam-generator	J. Walp	353,996	Dec. 7	502	136	37	1097
Steam generator and furnace	C. Mason and A. Miller	347,816	Aug. 24	1898	506	36	840
Steam generator and radiator. Combined	E. Reynolds	345,991	July 20	1707	439	36	319
Steam-generator and superheater	R. A. Chesebrough	344,476	June 29	2422	623	35	1475
Steam generator and superheater	M. Foreman	338,223	Mar. 16	1811	472	34	1267
Steam-generator furnace	G. E. Palmer and A. M. Ewart	349,737	Sept. 28	1656	427	36	1378
Steam-generator. Sectional	F. D. Althause	354,172	Dec. 14	771	207	37	1154
Steam-generators. Heating water in	F. G. Wheeler	352,283	Nov. 9	813	217, 218	37	615
Steam-generators. Section for	E. R. Bryant	343,104	June 1	468	119	35	1092
Steam-generators. Separator for	M. W. Hanley	355,106	Dec. 28	2197	580	37	1437
Steam-heated roller	A. M. Bowers	339,735	Apr. 13	939	230	35	171
Steam-heater	O. S. Backus	344,512	June 29	2483	639	35	1486
Steam-heater	W. C. Bronson	345,879	July 20	1547	400	36	290
Steam-heater	G. Jones	344,968	July 6	233	59, 60	36	42

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Steam-heater	B. A. Stevens	348,247	Aug. 31	2532	680	36	962
Steam-heater boiler	J. Johnson	338,670	Mar. 23	2425	639 640	34	1383
Steam-heater. Upright	W. F. Boswell	334,335	Jan. 12	1202	324	34	231
Steam-heating apparatus	J. J. Flynn	344,645	June 29	2654	687	35	1520
Steam-jackets. Draining	C. C. Worthington	345,469	July 13	935	236	36	174
Steam-motor	G. Wood	342,721	May 25	2459	651 652	35	985
Steam-motor. Low-pressure	H. Davey	338,934	Mar. 30	2812	742	34	1460
Steam-muffler	G. W. Richardson	344,863	July 6	98	25	36	18
Steam-muffler	R. Solano	352,273	Nov. 9	804	215	37	613
Steam or vapor bath. Cabinet	B. Galland	339,873	Apr. 13	1119	278 279	35	205
Steam-pipe covering	M. Flegle	348,958	Sept. 14	574	.....	36	1158
Steam-pipes. Apparatus for cleaning	C. Kynoch and E. Courtright	345,434	July 13	890	221	36	165
Steam-pipes, boilers, &c. Covering for	M. Flegle	348,959	Sept. 14	574	152	36	1158
Steam purifier. Live-	E. G. T. Colles	343,436	June 8	982	245	35	1192
Steam-trap	J. H. Banks	352,387	Nov. 9	945	253	37	642
Steam-trap	J. R. Barry	343,690	June 15	1344	336	35	1264
Steam-trap	J. H. Blessing	341,548	May 11	806	215	35	662
Steam-trap	J. H. Blessing	348,948	Sept. 14	562	149	36	1156
Steam-trap	A. M. Coyle	333,924	Jan. 5	586	161	34	110
Steam-trap	N. Curtis	336,628	Feb. 23	2207	576	34	851
Steam-trap	F. B. Eastman	341,737	May 11	1063	283	35	713
Steam-trap	E. E. Gold	350,880	Oct. 12	1101	294	37	208
Steam-trap	E. C. Hawes	340,666	Apr. 27	2246	590 591	35	421
Steam-trap	R. Kullig	350,253	Oct. 5	211	61	37	44
Steam-trap	W. B. Mason	338,854	Mar. 30	2698	710	34	1439
Steam-trap	R. Newton	334,272	Jan. 12	1118	300	34	215
Steam-trap	F. H. West	353,570	Jan. 5	112	31	34	24
Steam-traps. Expansible vessel for	J. C. Taft	353,176	Nov. 23	2022	542	37	862
Steam, water, and dirt separator. Combined	R. Newton	354,730	Dec. 21	1576	417	37	1307
Steamboat	C. M. Catlin	344,621	June 29	2621	679	35	1514
Steamboat and water-wheel	J. W. Thomas	334,824	Jan. 26	1867	497	34	367
Steamboat paddle-wheels. Bucket for	J. C. Trullinger and U. B. Scott	342,768	May 25	2519	673	35	997
Steamboat-stage	J. Patin	337,281	Mar. 2	539	141	34	1026
Steamer	L. Bammerlin	351,685	Oct. 26	2298	596	37	440
Steamer	C. F. Hanneman	338,064	Mar. 16	1595	415	34	1225
Steamer	E. W. Watkins	346,334	July 27	2184	560	36	418
Steamer or urn. Coffee	J. S. Sanborn	342,879	June 1	149	37, 38	35	1033
Steel	R. Hadfield	342,867	June 1	131	.....	35	1030
Steel	R. Hadfield	342,868	June 1	132	.....	35	1030
Steel. Apparatus for making	E. Nicholson	340,000	Apr. 13	1294	323 324	35	237
Steel. Compound for tempering	A. Schaefer	341,173	May 4	284	.....	35	557
Steel ingots. Soaking-pit for	J. Gjers	335,015	Feb. 9	1179	313	34	658
Steel ingots. Soaking-pit for	J. Gjers	342,200	May 18	1676	447	35	835
Steel ingots. Soaking-pit for	J. Gjers	342,251	May 18	1743	463	35	848
Steel. Making	D. Brose	353,247	Nov. 23	2118	.....	37	881
Steel. Making	R. Hadfield	342,869	June 1	134	.....	35	1030
Steel. Manufacturing	E. F. Falconnet	338,723	Mar. 30	2515	665	34	1405
Steel. Manufacturing	J. Henderson	350,587	Oct. 12	685	.....	37	131
Steel. Self-hardening manganese	R. Hadfield	333,748	Jan. 5	350	.....	34	65
Steel tie, rail-fastening, &c. Combined	T. L. Mumford and H. Moore	350,692	Oct. 12	841	226	37	159
Steering and brake device	J. K. P. Shelton	351,844	Nov. 2	166	45, 46	37	489
Steering and coupling apparatus. Boat	L. Balletto	344,612	June 29	2610	676	35	1512
Steering apparatus	T. Chambers	336,291	Feb. 16	1750	458	34	763
Steering apparatus	J. H. Cox and E. S. Willey	333,923	Jan. 5	585	160	34	110
Steering apparatus for vessels	J. I. Thornycroft	343,679	June 15	1323	331	35	1260
Steering apparatus. Steam	J. P. Manton	350,463	Oct. 5	500	140	37	96
Steering-gear for vessels	C. M. Catlin	344,623	June 29	2627	680	35	1515
Steering-gear for vessels. Steam	A. J. Maginnis	334,593	Jan. 19	1556	416	34	302
Steering machinery for ferry-boats	J. P. Manton	350,465	Oct. 5	504	.....	37	96
Steering ships. Apparatus for	J. A. Tilden	352,374	Nov. 9	929	249	37	639
Steering vessels. Apparatus for	B. T. Babbitt	347,983	Aug. 24	2146	571	36	884
Steering vessels. Apparatus for	B. T. Babbitt	347,985	Aug. 24	2149	572	36	885
Stem winding and setting mechanism	H. Vent	339,246	Apr. 6	194	49	35	37
Stench-trap	J. F. Donovan	333,841	Jan. 5	473	128	34	88
Stench-trap	J. P. Gallagher	336,805	Feb. 23	2444	643	34	896
Stencil	G. F. Gunther	340,040	Apr. 13	1348	338	35	246
Stencil	M. W. Stines	338,621	Mar. 23	2355	619	34	1371
Stencil and producing the same. Autographic	J. Brodrick	345,109	July 6	430	110	36	79
Stencil-frame	G. P. Bailey	351,149	Oct. 19	1500	392 393	37	287
Stencil-holder	A. D. Klaber	333,864	Jan. 5	502	137	34	93
Stenciling-machine	C. L. Travis	353,520	Nov. 30	2519	672	37	962
Stenographic machine	M. M. Bartholomew	352,799	Nov. 16	1488	401	37	751
Stereotype-block	G. Damon and E. S. Peets	340,104	Apr. 20	1436	363	35	268
Stereotype-block	M. Joyce	345,433	July 13	889	221	36	165
Stereotype-matrices. Apparatus for drying	G. Pepé	334,544	Jan. 19	1491	399	34	289
Stereotype-matrices. Machine for producing	F. D. Maltby	339,671	Apr. 13	846	208 209	35	156
Stereotype-matrix impressions. Machine for making	F. Schreiner	336,754	Feb. 23	2377	622	34	884
Stereotype plate and base with locking device	N. R. Lyman and A. Morley	349,257	Sept. 14	987	252	36	1234
Stereotype plate and block	E. E. Pratt	348,583	Sept. 7	69	20	36	1060
Stereotype plate and block	E. C. Standiford	347,837	Aug. 24	1932	513	36	847
Stereotype-plate and block or bed for the same	W. T. Smith	336,622	Feb. 9	1314	348	34	682
Stereotype-plate holder	L. C. Crowell	350,916	Oct. 19	1154	307	37	224
Stereotype-plates and their backing. Machine for fitting	G. E. Lloyd	333,530	Jan. 5	46	13	34	11
Stereotype-plates. Machine for mending	J. North. (Reissue)	10,710	Apr. 6	761	188	35	134
Stereotype-plates. Machine for shaving	G. E. Lloyd	333,529	Jan. 5	45	13	34	11
Stereotype-shaving machine	E. A. Blake	347,222	Aug. 10	1032	275	36	663

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Stereotype-shaving machine	E. A. Blake	347,223	Aug. 10	1033	275, 276	36	663
Stereotype-shaving machine	J. H. Ferguson	335,276	Feb. 2	268	70, 71	34	488
Stethoscope	L. D. Radzinsky	350,393	Oct. 5	383	110	37	77
Stilt	O. G. Stillman	351,294	Oct. 19	1695	444	37	322
Stirring and beating machine	V. Vizet	350,222	Oct. 5	179	51, 52	37	36
Stirrup	C. H. Allen	342,162	May 18	1633	437	35	828
Stirrup	L. D. O'Roark	334,976	Jan. 26	2060	549	34	402
Stirrup	L. L. Shearer	346,174	July 27	1957	504	36	375
Stirrup for sulkies	T. D. Aitken	337,357	Mar. 9	639	169	34	1051
Stirrup-irons for beams, &c. Machine for making	W. McPherson	349,946	Sept. 28	1937	501	36	1433
Stirrup. Safety	E. Allen	341,987	May 18	1392	372	35	782
Stirrup. Safety	W. Lerchen	350,144	Oct. 5	70	20	37	16
Stirrup. Safety	A. R. Parkison	352,259	Nov. 9	782	209	37	609
Stitching. Forming elastic	L. Muther	344,492	June 29	2447	629	35	1479
Stock and hay rack. Combined	M. S. Robinson	350,996	Oct. 19	1298	340	37	250
Stock or hay frame	J. T. Carrington	341,729	May 11	1054	279, 280	35	712
Stock. Platform for handling	J. D. Morrison	337,425	Mar. 9	747	191	34	1069
Stock-rack	J. Young	340,966	Apr. 27	2650	698	35	494
Stock-record	H. Mayer	345,519	July 13	1005	255	36	187
Stocking	T. H. Dodge	338,341	Mar. 23	1975	520	34	1305
Stocking	H. Loesner and F. B. Persch	340,132	Apr. 20	1477	373	35	276
Stocking-blank	J. L. Branson and H. Brinton	334,339	Jan. 12	1208	326	34	232
Stocking. Knitted	F. Wilcomb	344,466	June 29	2405	620	35	1472
Stocking, sock, slipper, boot, or shoe. Woolen or felt	E. Roos	341,772	May 11	1107	294	35	732
Stocking-supporter	J. A. Bemis	338,467	Mar. 23	2151	562	34	1336
Stocking-supporter	C. N. Chadwick	350,291	Oct. 5	260	75	37	54
Stocking-supporter	C. J. Haley	336,917	Mar. 2	50	13	34	936
Stocking-supporter	C. C. Shelby	342,938	June 1	233	60	35	1048
Stocking-supporter	J. B. Sweetser	335,784	Feb. 9	990	262	34	625
Stocking-supporter	T. White	341,710	May 11	1032	273	35	708
Stocking-supporter	R. S. Willard	344,889	July 6	136	34	36	24
Stone and marble. Manufacture of artificial	L. L. Boblett	343,695	June 15	1352	.....	35	1265
Stone, &c. Article of artificial	W. J. Morrow	352,772	Nov. 16	1446	390	37	744
Stone. Artificial	G. Blum	338,026	Mar. 16	1554	.....	34	1218
Stone. Artificial	H. A. Daniels	346,729	Aug. 3	354	.....	36	530
Stone. Artificial	H. A. Daniels	346,730	Aug. 3	355	.....	36	530
Stone. Artificial	H. A. Daniels	346,731	Aug. 3	355	.....	36	530
Stone. Artificial	H. A. Daniels	346,732	Aug. 3	356	.....	36	530
Stone. Artificial	H. A. Daniels	346,733	Aug. 3	356	.....	36	530
Stone. Artificial	J. Grant	338,060	Mar. 16	1590	.....	34	1224
Stone-breaker and ore-crusher	P. W. Gates	341,900	May 18	1283	340	35	763
Stone-channeling machine	W. L. Saunders	350,604	Oct. 12	710	194	37	137
Stone. Composition for making artificial	H. Poole	343,198	June 8	615	.....	35	1128
Stone-conveyer	G. W. Richardson	334,471	Jan. 19	1393	376	34	272
Stone-crushers. Pitman for	T. A. Blake	344,619	June 29	2619	679	35	1513
Stone-cutter head	J. W. Maloy	334,595	Jan. 19	1558	416	34	302
Stone-cutting machine	A. E. North and W. K. Sheldon	336,256	Feb. 16	1694	441, 442	34	753
Stone-cutting machines. Cutter-head for	J. W. Maloy	334,594	Jan. 19	1557	416	34	302
Stone. Dressing	J. W. Maloy	350,936	Oct. 19	1174	312	37	228
Stone-dressing apparatus	J. D. Brunton	342,861	June 1	121	30	35	1028
Stone-dressing machine	J. W. Maloy	351,059	Oct. 19	1380	362	37	265
Stone-dressing machine	J. W. Maloy	353,149	Nov. 23	1989	532	37	855
Stone-dressing machine	J. Mann	350,543	Oct. 12	618	172	37	119
Stone-dressing machine	F. Manning	354,200	Dec. 14	817	217	37	1163
Stone-drilling machine	S. Jones	341,013	May 4	55	15	35	516
Stone. Manufacture of artificial	H. A. Daniels	346,736	Aug. 3	359	96	36	531
Stone. Manufacture of artificial	F. Reimers	348,815	Aug. 31	2756	.....	36	1007
Stone. Manufacturing artificial	G. Lilienthal	335,707	Feb. 9	870	.....	34	603
Stone or marble. Artificial	T. Hurtz	354,834	Dec. 21	1723	.....	37	1336
Stone. Ornamenting	J. W. Maloy	348,225	Aug. 31	2502	673	36	957
Stone. Producing imitation	H. S. Utley	336,675	Feb. 23	2281	.....	34	866
Stone-saw	J. Peckover	334,678	Jan. 19	1675	447	34	322
Stone-saw mills. Sand-feeding mechanism for	J. Peckover	341,683	May 11	999	264	35	701
Stone-sawing apparatus	J. H. Frenier	333,510	Jan. 5	20	7	34	7
Stone-sawing machine	W. H. H. Campbell	337,661	Mar. 9	1053	271	34	1122
Stone-sawing machine	E. Foerster	340,205	Apr. 20	1590	402, 403	35	296
Stone-sawing machine	E. Foerster	350,191	Oct. 5	131	38	37	28
Stone-sawing machine	J. H. Frenier	336,099	Feb. 16	1442	380, 381	34	711
Stone-sawing machine	H. Hartley	340,875	Apr. 27	2530	665	35	472
Stone-sawing machine	J. W. Maloy	351,874	Nov. 2	208	58	37	497
Stone-sawing machines. Feed mechanism for	F. H. Cook	336,840	Feb. 23	2494	656, 657	34	906
Stone-sawing machines. Sand and water feed mechanism for	J. H. Frenier	352,916	Nov. 23	1643	442	37	791
Stone-sawing machines. Sand-feeding mechanism for	R. L. Barney	342,561	May 25	2220	590	35	941
Stone-sawing machines. Sand-feeding mechanism for	D. Shortsleeve	347,388	Aug. 17	1277	340	36	716
Stone slabs. Press for making artificial	F. Schillinger	349,861	Sept. 28	1827	472	36	1411
Stone, tiles, &c. Mold for making artificial	E. Ormerod	341,161	May 4	261	75	35	552
Stones. Machine for gathering	N. Botsford	349,685	Sept. 28	1563	405	36	1362
Stool	P. T. Graves	339,165	Apr. 6	66	20	35	15
Stool	A. C. Haynes	341,748	May 11	1076	287	35	716
Stool and seat	I. Baldwin	354,298	Dec. 14	962	255	37	1188
Stool and seat	W. Holden	335,927	Feb. 9	1190	317	34	661
Stool and seat	A. H. Ordway	344,675	June 29	2689	698	35	1527
Stool and seat. Adjustable	T. S. Disston	348,386	Aug. 31	2717	730	36	1000
Stool. Cane	E. O. Leermo	345,852	July 20	1515	392	36	283
Stool. Folding adjustable musical	J. Pursell	336,156	Feb. 16	1332	404	34	726
Stool. Folding camp	E. Cole	352,608	Nov. 16	1325	332	37	702
Stool. Folding camp	C. von der Linden	335,823	Feb. 9	1039	275	34	634

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stool. Folding music	J. Pursell, Sr	349,053	Sept. 14	711	181	36	1181
Stop-block	J. P. and J. Goodman	348,735	Sept. 7	273	73	36	1098
Stop-box	F. White	346,969	Aug. 10	670	178	36	597
Stop-motion mechanism	F. W. Ostrom	352,775	Nov. 16	1449	391	37	745
Stop or curb box	W. S. Payne	338,102	Mar. 16	1656	430	34	1237
Stopper; *See* Bottle-stopper. Vessel leak-stopper. Hawse-pipe stopper.							
Stopper	F. J. Deverall	350,454	Oct. 5	489	137	37	94
Stopper-fastener	R. H. Hazard	346,289	July 27	2106	542	36	404
Stopper-fastener	F. W. Seymour	337,202	Mar. 2	425	111	34	1065
Stopper-fastener	F. D. Torre	340,257	Apr. 20	1671	424	35	310
Storage-battery	C. D. P. Gibson	342,594	May 25	2267	601	35	950
Storage-battery	O. A. Moses	352,708	Nov. 16	1374	371	37	730
Storage house. Cold-	J. B. Brown	353,348	Nov. 30	2261	604	37	913
Store-service apparatus	B. C. Algie	342,557	May 25	2216	589	35	940
Store-service apparatus	I. Birge	350,861	Oct. 12	1079	289	37	204
Store-service apparatus	C. F. Burton	344,244	June 22	2102	.....	35	1410
Store-service apparatus	R. Gornall	342,252	May 18	1744	464	35	848
Store-service apparatus	R. Gornall	342,253	May 18	1747	464 465	35	849
Store-service apparatus	R. Gornall	342,254	May 18	1750	465	35	850
Store-service apparatus	R. Gornall	342,255	May 18	1752	465	35	850
Store-service apparatus	R. Gornall	342,256	May 18	1755	466	35	851
Store-service apparatus	S. G. North	342,628	May 25	2321	613	35	969
Store-service apparatus. Stop for	E. P. Osgood	354,605	Dec. 21	1684	445	37	1328
Store-service switch	E. L. Giles	333,744	Jan. 5	346	93, 94	34	65
Store-service. Three-way switch for	E. L. Giles	333,743	Jan. 5	344	93	34	64
Stove	C. H. Amann	346,631	Aug. 3	233	64	36	505
Stove	F. Brielmair	340,278	Apr. 20	1698	433	35	315
Stove	D. Habig	338,954	Mar. 30	2840	749	34	1465
Stove	K. Lerch and K. Seidl	346,756	Aug. 3	377	104	36	534
Stove	W. N. Moore	352,558	Nov. 16	1156	312	37	689
Stove	D. M. Murray	346,939	Aug. 10	632	170	36	590
Stove	A. S. Newby	351,648	Oct. 26	2247	582	37	429
Stove	J. Orr	354,927	Dec. 28	1859	491 492	37	1373
Stove	R. G. Shackell	347,649	Aug. 17	1665	442 443	36	789
Stove	G. A. Taylor	335,974	Feb. 9	1251	332	34	671
Stove	W. Turton	352,843	Nov. 16	1542	416	37	761
Stove	M. Van Wormer	339,355	Apr. 6	346	84	35	64
Stove	C. P. White	348,808	Sept. 7	362	98	36	1115
Stove	L. A. White	350,333	Oct. 5	313	89	37	64
Stove	C. F. Whorf	351,892	Nov. 2	230	65	37	500
Stove	F. Will	341,363	May 4	550	152	35	604
Stove. Air-heating	W. Tuttle	354,994	Dec. 28	1948	514	37	1390
Stove and baking and warming oven. Combined cooking-	F. Artmann	333,714	Jan. 5	307	84	34	57
Stove and furnace fire-pot	G. H. Hess	333,627	Jan. 5	168	45, 46	34	33
Stove and furnace grate	A. Sloan	343,500	June 8	1076	269	35	1208
Stove and range door	A. C. Mason	334,258	Jan. 12	1101	295	34	212
Stove attachment. Gasoline-	C. A. Stockstrom	350,094	Sept. 28	2138	553 554	36	1471
Stove-back	O. Daman	338,252	Mar. 23	1853	487	34	1284
Stove-boards. Machine for forming corner-pieces for	I. Van Hagen	355,235	Dec. 28	2303	607	37	1458
Stove. Combined parlor and cooking	D. E. Paris	345,530	July 13	1039	264	36	192
Stove. Combined self-feeding cooking and heating	J. H. Nevins	334,971	Jan. 26	2054	548	34	401
Stove. Cook-	N. O. Bond	338,472	Mar. 23	2157	563	34	1337
Stove. Cooking-	W. H. Miller	354,922	Dec. 28	1852	490	37	1372
Stove-covers. Pattern for molding	F. W. Heckel, Jr., and Z. Shade	344,377	June 29	2294	591	35	1452
Stove-door	G. T. Crandell	343,986	June 22	1738	447	35	1345
Stove-door	J. H. Herrick	333,857	Jan. 5	493	134	34	92
Stove-door	D. L. Luddington	339,309	Apr. 6	278	69	35	52
Stove-door handle	J. G. Whitlock	338,455	Mar. 23	2136	558	34	1333
Stove-door handle	J. G. Whitlock	338,456	Mar. 23	2138	559	34	1334
Stove-door knob	S. F. Gibson and F. M. Lawrence	349,642	Sept. 21	1502	389	36	1344
Stove-door knob and handle	J. E. Gaitley	338,507	Mar. 23	2207	579	34	1346
Stove. Dual gas and spirit	W. P. Houchin	355,268	Dec. 28	2346	617	37	1467
Stove fire-pot	J. Clapp and W. J. Keep	347,995	Aug. 24	2160	575	36	887
Stove for burning charcoal and cork	L. Cline	343,623	June 15	1250	314	35	1248
Stove for railway-cars	J. A. Faust	336,321	Feb. 16	1639	428	34	744
Stove. Gas-	J. W. Baker	349,779	Sept. 28	1718	443	36	1389
Stove. Gas-	C. L. Bisbee	347,561	Aug. 17	1522	404 405	36	761
Stove. Gas-	J. Clingman	337,379	Mar. 9	669	175	34	1056
Stove. Gas-	G. W. Coleman	349,209	Sept. 14	919	236	36	1220
Stove. Gas-	C. A. Cushing	355,143	Dec. 28	2164	570 571	37	1430
Stove. Gas-	W. R. Kinnear	346,554	Aug. 3	131	35, 36	36	485
Stove. Gas cooking-	J. Somerville and W. H. Y. Webber	342,232	May 18	1720	458	35	844
Stove. Gas or oil	A. B. Vandemark	333,797	Jan. 5	413	112	34	78
Stove. Gas or oil burning	C. Toope	340,388	Apr. 20	1853	476	35	345
Stove. Gasoline-	J. M. Reddy	347,379	Aug. 17	1264	335	36	714
Stove. Gasoline-	J. Ringen	345,545	July 13	1067	272	36	197
Stove. Gasoline-	L. Stockstrom	350,087	Sept. 28	2132	552	36	1469
Stove. Gasoline-	C. A. Williamson	348,082	Aug. 24	2287	613	36	911
Stove. Gasoline or oil heating-	J. Stubbs	354,520	Dec. 14	1262	338	37	1243
Stove-grate	M. W. Baily	341,209	May 4	325	92	35	565
Stove-grate	C. C. Bowman	351,896	Nov. 2	236	66	37	501
Stove-grate	G. M. Cooper	341,733	May 11	1059	281	35	713
Stove-grate	H. C. Snow	349,237	Sept. 14	964	246	36	1229
Stove, heater, and furnace	T. Poore	342,809	June 1	46	12	35	1015

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stove. Heating	E. W. Anthony	354,297	Dec. 14	961	255	37	1188
Stove. Heating	E. W. Anthony	354,671	Dec. 21	1502	398	37	1293
Stove. Heating	G. Benns	335,420	Feb. 2	466	120	34	542
Stove. Heating	J. Bierley	354,009	Dec. 7	521	141, 142	37	1101
Stove. Heating	H. P. Heitmann	333,856	Jan. 5	492	133	34	92
Stove. Heating	J. Jewett	348,218	Aug. 31	2494	670	36	955
Stove. Heating	F. A. Magee	353,033	Nov. 23	1815	486, 487, 488	37	821
Stove. Heating	J. G. McGrew	346,764	Aug. 3	387	107	36	536
Stove. Heating	J. McMaster	342,968	June 1	272	70	35	1055
Stove. Heating	E. L. Messenger	352,879	Nov. 16	1591	820	37	772
Stove. Heating	C. Philbrick	354,220	Dec. 14	842	223, 224	37	1167
Stove. Heating	G. Wellhouse	349,545	Sept. 21	1384	359	36	1319
Stove-hood	G. W. Wallace	346,694	Aug. 3	307	84	36	521
Stove-hood or heat-collector	J. G. W. F. Fleeming	336,559	Feb. 23	2104	554	34	834
Stove-hook	S. F. Gibson	339,637	Apr. 13	801	197	35	147
Stove. Hot-blast	M. Scovel	351,804	Nov. 2	107	29, 30	37	478
Stove. Hydrocarbon-vapor	M. G. Fagan	341,739	May 11	1066	2-3	35	714
Stove-knob bottom	A. T. Matthews	354,607	Dec. 21	1411	374	37	1276
Stove. Lamp	D. W. Goodell and O. N. Kyle	343,535	June 8	1114	281	35	1216
Stove. Lamp	H. McConnell	347,187	Aug. 10	985	263	36	654
Stove-leg	R. Berry and J. C. Parker	346,888	Aug. 10	556	150	36	576
Stove-leg	D. E. Paris	334,134	Jan. 12	889	243	34	173
Stove leg and caster	F. M. Hunting	343,031	June 1	355	92	35	1072
Stove-lid	W. E. Sheaffer	341,062	May 4	122	36	35	527
Stove-lid holder	S. H. Richmond	335,627	Feb. 9	760	202	34	583
Stove-lids. Pattern for molding	E. Evans	337,052	Mar. 2	228	60	34	967
Stove. Oil	J. Aenis	340,653	Apr. 27	2231	585	35	418
Stove. Oil	S. Armstrong	351,682	Oct. 26	2293	594	37	439
Stove. Oil	O. S. Backus	344,513	June 29	2484	639	35	1486
Stove. Oil	E. W. Ball and C. A. Fletcher	348,094	Aug. 24	2303	617	36	914
Stove. Oil	H. L. Howse	338,842	Mar. 30	2683	707	34	1436
Stove. Oil	W. Mauerman	344,587	June 29	2575	667	35	1504
Stove. Oil	H. McConnell	348,029	Aug. 24	2206	588, 589	36	896
Stove. Oil	C. Riessner	340,363	Apr. 20	1825	468	35	340
Stove or furnace	C. Garlick	344,647	June 29	2657	688, 689	35	1520
Stove or furnace. Heating	J. Adams	344,558	June 29	2544	657	35	1497
Stove or range	A. M. Blakesley	338,701	Mar. 30	2478	655	34	1399
Stove or range. Cooking	F. A. Magee	344,845	July 6	68	17	36	13
Stove or range. Cooking	J. S. Van Buren	353,992	Dec. 7	498	135	37	1097
Stove or range door	E. W. Van Duzen, Jr.	354,451	Dec. 14	1158	310	37	1225
Stove or range oven	A. Sloan	354,748	Dec. 21	1613	427	37	1314
Stove oven. Vapor	T. J. Ford	337,757	Mar. 9	1170	305	34	1142
Stove-ovens. Sliding-grate attachment for	M. L. Miller	347,007	Aug. 10	722	191	36	606
Stove-pipe	B. F. Caldwell	354,390	Dec. 14	1079	289	37	1211
Stove-pipe anchor	C. B. Tuckfield	344,332	June 22	2221	572	35	1432
Stove-pipe collar and clamp	E. H. Brower and J. J. Travis	346,188	July 27	1976	510	36	379
Stove-pipe elbow	A. W. Cram	340,487	Apr. 20	1988	510	35	370
Stove-pipe elbow	H. Zopff	341,985	May 18	1390	371	35	782
Stove-pipe elbows. Machine for making	T. S. Evans and E. H. Bissett	343,631	June 15	1259	316, 317	35	1249
Stove-pipe. Extensible	J. S. Beebe	347,150	Aug. 10	935	249	36	645
Stove-pipe flange and retainer	R. P. Daggett	346,431	July 27	2326	599	36	444
Stove-pipe holder	E. Hayes	355,078	Dec. 28	2069	544	37	1412
Stove-pipe shelf	C. W. Taylor	349,239	Sept. 14	966	246	36	1229
Stove-pipe thimble	O. C. McDannell	335,291	Feb. 2	291	77	34	492
Stove-pipe thimble	D. A. Smith	339,701	Apr. 13	893	220	35	164
Stove-pipes. Adjustable thimble for	J. Salois	350,352	Oct. 5	296	84, 85	37	60
Stove-platform	W. Westlake. (Reissue)	10,734	June 8	1157	291	35	1224
Stove-polish receiver	C. L. Spencer	342,233	May 18	1722	458	35	844
Stove rack and shelf. Combination	A. J. Coats	348,880	Sept. 7	475	126	36	1135
Stove. Regenerative hot-blast	J. M. Hartman	353,747	Dec. 7	131	37	37	1031
Stove. Regenerative hot-blast	H. A. Laughlin	355,181	Dec. 28	2217	585	37	1442
Stove. Reservoir-cooking	M. Hertenstein	338,739	Mar. 30	2543	671	34	1410
Stove top. Oil	C. W. McCutchen	353,798	Dec. 7	204	54	37	1044
Stove. Vapor	S. Daniels	347,161	Aug. 10	948	253, 254	36	648
Stove. Vapor	M. L. Hull	343,127	June 1	509	129	35	1099
Stove. Vapor	P. Schneider and H. Trenkamp	343,733	June 15	1417	353	35	1276
Stove. Ventilating	H. C. Snow	341,069	May 4	129	38	35	529
Stoves. Adjustable collar attachment for	H. R. Graves	351,046	Oct. 19	1364	358	37	262
Stoves. Air-heater for	L. P. Converse	336,392	Feb. 16	1883	492	34	789
Stoves and ranges. Roasting and baking oven for	J. J. Richardson	339,473	Apr. 6	521	126	35	97
Stoves. Ash-pit for	A. Barkach	346,804	Aug. 3	430	118	36	544
Stoves. Attachment for cooking	A. C. Philippi	349,118	Sept. 14	804	204	36	1198
Stoves. Automatic attachment for gas	J. N. Ives	338,155	Mar. 16	1722	449	34	1251
Stoves. Automatic sliding shelf for cook	M. Kuehnle	355,180	Dec. 28	2216	585	37	1442
Stoves. Cooking attachment for heating	M. Ruggles	352,488	Nov. 9	1066	287	37	606
Stoves. Door for cooking	J. A. Price	342,928	June 1	217	56	35	1045
Stoves. End shelf for	D. E. Paris	334,135	Jan. 12	890	244	34	173
Stoves. Extension-top and feeder for	D. E. Paris	345,532	July 13	1043	265, 266	36	193
Stoves. Fire-back for	J. W. Keyes	341,851	May 11	1211	325	35	742
Stoves. Fire-back for cooking and other	M. D. Judkins	343,243	June 8	684	170	35	1140
Stoves. Fount for vapor	H. H. Hull	351,774	Nov. 2	63	17	37	470
Stoves, furnaces, &c. Grate for	D. E. Bangs	352,629	Nov. 2	435	118	37	540
Stoves. Gas-burner attachment for	J. E. Dooly	338,143	Mar. 16	1705	444	34	1247
Stoves. Heating attachment for	M. H. Ball	352,730	Nov. 16	1396	378	37	735
Stoves. Heating attachment for	S. Smith	349,534	Sept. 21	1368	355	36	1317

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Stoves. Heating attachment for	D. S. Trimmer	352,635	Nov. 16	1267	341	37	709
Stoves. Heating attachment for cooking	R. A. Rew	355,208	Dec. 28	2258	595	37	1450
Stoves or ranges. Plate-joint for	N. A. Boynton	337,127	Mar. 2	327	86	34	986
Stoves. Oven for oil, gas, or gasoline	W. Miller	350,635	Oct. 12	763	209	37	146
Stoves. Portable oven for gas and oil	W. H. Dahmann	343 231	June 8	664	165	35	1136
Stoves. Portable oven for gas and other	A. B. Altmiller	343,419	June 8	960	240	35	1189
Stoves. Straw-burning attachment for	S. C. Purdy	344,327	June 22	2216	570	35	1431
Stoves. Vapor-burning apparatus for cook	F. E. Brown and G. P. Frain	338,386	Mar. 23	2040	535	34	1316
Stoves. Vapor-burning attachment for	H. McConnell	347,188	Aug. 10	986	263, 264	36	655
Stoves. Vaporizer and burner for gasoline and oil	B. Rein	336,745	Feb. 23	2366	619	34	882
Stoves. Vaporizer for gasoline and oil	B. Rein	335,719	Feb. 9	890	235	34	606
Stoves. Ventilating attachment for	W. M. Brinkerhoff	346,717	Aug. 3	337	92	36	526
Stoves. Ventilating attachment for	W. M. Brinkerhoff	349,425	Sept. 21	1218	316	36	1287
Stoves. Ventilating attachment for	W. M. Brinkerhoff	354,765	Dec. 21	1635	433	37	1319
Stoves. Ventilating attachment for	W. M. Brinkerhoff	354,766	Dec. 21	1637	433, 434	37	1319
Stoves. Ventilating attachment for heating	W. M. Brinkerhoff	339,966	Apr. 13	1241	310	35	227
Strainer and cut-off	W. W. Hough and H. C. Hoffman	334,386	Jan. 12	1261	340	34	241
Strainer and trap for water-pipes, &c. Combined	T. Lee	335,366	Feb. 2	393	101	34	512
Strainer. Coffee or tea pot	W. H. and F. C. Burden	352,516	Nov. 16	1103	298	37	680
Strainer for catch-basins	R. D. Duncan	333,935	Jan. 5	600	164	34	112
Strainer for purifying sugar, &c. Liquid	J. H. Ockershausen	336,425	Feb. 16	1926	505	34	797
Strainer for water and other fluids	R. H. Hey	338,522	Mar. 22	2224	583	34	1349
Strainer. Milk	O. L. F. Browne	350,110	Oct. 5	20	6	37	7
Strainer. Milk	J. A. McPherson	350,379	Oct. 5	368	105, 106	37	74
Strainer. Milk-pail	J. O. Beazley and H. S. Brewington	350,183	Oct. 5	122	34	37	25
Strand former or die	F. A. Wiswell	339,357	Apr. 6	348	85	35	65
Strap: *See* Box-strap. Satchel-strap. Harness breast-strap. Shawl-strap. Hitching-strap. Trunk-strap. Overall-strap.							
Strap clamping and stretching device	J. Cooper	335,179	Feb. 2	133	33	34	465
Strap-loop protector	R. W. Jones	341,917	May 18	1306	349	35	767
Straps. Loop or band for	T. L. Rivers	350,081	Sept. 28	2125	550	36	1468
Straw-board-lining machine	A. W. Schlichte	350,272	Oct. 5	235	69	37	49
Straw-burner	E. Clutter and A. Mockenhaupt	352,607	Nov. 16	1224	332	37	702
Straw-carrier	J. J. Link	349,507	Sept. 21	1333	346	36	1310
Straw-carrier	H. Thoman	336,448	Feb. 16	1958	513	34	802
Straw-cutter	H. E. Collins	345,484	July 13	954	241	36	177
Straw-cutter	G. S. Garth	342,199	May 18	1673	447	35	835
Straw, hay, &c. Conveyer and elevator for	W. Ludlum	336,126	Feb. 16	1474	389	34	718
Straw. Machine for mashing	W. S. Reeder	349,607	Sept. 21	1464	377	36	1336
Straw-stacker	W. Butler	342,064	May 18	1506	402, 403	35	803
Straw-stacker	C. N. Leonard	334,402	Jan. 12	1288	347, 348	34	246
Strawberry-runner cutter. Double	G. W. Love	337,174	Mar. 2	396	102	34	999
Street and station indicator	P. M. Kling	351,270	Oct. 19	1660	436	37	316
Street-clearing machine	I. H. Randall	354,224	Dec. 14	847	224, 225	37	1168
Street-receiver and stench-strap	T. J. O'Brien	343,335	June 8	829	208	35	1164
Street-sanding machine	B. Butler	337,300	Mar. 2	567	149, 150	34	1031
Street-scraper and snow-plow	G. G. Gibson	338,262	Mar. 23	1863	489, 490	34	1285
Street-sprinkler	J. A. Bancroft	353,729	Dec. 7	111	30, 31	37	1027
Street-sprinkler	W. H. Miller	336,252	Feb. 16	1688	440	34	752
Street-sprinkler	D. Murray	354,515	Dec. 14	1256	336	37	1242
Street-sweeper	D. E. Grove	342,744	May 25	2491	663	35	992
Street-sweeper	A. J. Reynolds	348,778	Sept. 7	325	87	36	1108
Street-sweeper	E. G. Rock	332,152	Nov. 9	633	167	37	583
Street-sweeping machine	C. Christoph	354,011	Dec. 7	524	142, 143	37	1101
Street-sweeping machine	C. Drill	338,721	Mar. 30	2510	664, 665	34	1404
Street-sweeping machine	C. F. Grüner	338,925	Mar. 16	1815	474, 475	34	1268
Street-washer	F. Chapman	341,405	May 4	609	166	35	615
Streets and removing dirt therefrom. Apparatus for sweeping	C. F. W. Seidel	349,816	Sept. 28	1767	457	36	1399
Streets. Cross-walk for	F. Maguire and O. L. Billings	341,490	May 11	720	194	35	646
Streets, sidewalks, &c. Composition for	T. Egan	349,304	Sept. 21	1038	.....	36	1252
Stretcher	O. J. Pfeiffer	354,579	Dec. 21	1355	359	37	1267
Stretcher for conveying wounded persons	W. H. Johnstone	338,349	Mar. 23	1984	522, 523	34	1307
Stretching and smoothing embroidered and other fabrics. Machine for	H. H. Hoge	344,577	June 29	2561	663	35	1502
Stretching-ring	E. A. Moon and E. Pynchon	352,769	Nov. 16	1443	389	37	744
String-gage	C. F. Albert	337,224	Mar. 2	453	118	34	1010
Stringer and tie fastener	J. W. Crow	353,624	Nov. 30	2677	717	37	991
Striping-instrument	J. Wade	342,484	May 25	2110	557	35	921
Striping-machine	J. Hamill	338,734	Mar. 30	2535	669	34	1408
Strut-connection. Hollow	A. T. Hyde	338,668	Mar. 23	2424	639	34	1383
Stud and magnifying-glass. Combined shirt	J. F. Leighton	353,688	Dec. 7	49	13	37	1016
Stud and necktie-holder. Combined collar	J. Y. Johnson	341,104	May 4	178	56	35	537
Stud, solitaire, &c	J. Nadal	341,268	May 4	413	114	35	581
Studs. Machine for feeding and setting	J. Wenger	350,709	Oct. 12	858	231, 232	37	163
Studs. Machine for setting lacing	E. B Stimpson, Jr	349,412	Sept. 21	1199	310	36	1283
Stuffing-box	A. H. Clark	337,663	Mar. 9	1056	271	34	1123
Stuffing-box	A. H. Clark	344,349	June 29	2251	578	35	1444

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stuffing-box	E. H. Cole	344,816	July 6	17	5	36	5
Stuffing-box	J. Loftus	346,378	July 27	2240	574	36	429
Stuffing-box	H. Strater	342,815	June 1	54	14	35	1016
Stuffing-box gland	J. D. Hobbs	341,330	May 4	508	140	35	597
Stump-extractor	J. D. Hensley	348,769	Aug. 31	2478	666	36	953
Stump-extractor	A. Logan	339,565	Apr. 6	672	164	35	121
Stump-extractor	E. S. Moore	351,277	Oct. 19	1668	438	37	318
Stump-extractor	F. R. Smith	352,370	Nov. 9	922	248	37	637
Stump-extractor	G. Y. Smith and E. A. Charles	349,008	Sept. 14	649	168	36	1170
Stump-extractor	W. H. Wright	350,179	Oct. 5	117	33	37	25
Stump or stone puller	T. B. Barber	337,114	Mar. 2	309	81	34	983
Stump-puller	L. B. Gibson	354,054	Dec. 7	585	159	37	1112
Stump-puller	W. M. McKay	352,765	Nov. 16	1439	388	37	743
Submarine boat or vessel	A. Campbell and J. Ash	344,718	June 29	2740	711	35	1535
Submarine torpedo-boat	G. E. Haight and W. H. Wood	339,096	Mar. 30	3051	806, 807, 808, 809	34	1499
Subsoiler and planting attachment. Combined	W. F. Reeves	354,231	Dec. 14	855	227	37	1170
Sucker-rod	G. Allen	348,944	Sept. 14	555	147	36	1155
Sucker-rod	R. H. Black	334,929	Jan. 26	1996	532	34	391
Sucker-rod clamp	W. Hellem	354,226	Jan. 12	1043	277	34	202
Sucker-rods. Uniting	R. H. Black	348,823	Sept. 7	377	103	36	1118
Sugar and salt. Apparatus for the manufacture of	J. A. Cook	342,683	May 25	2393	634	35	973
Sugar, &c. Apparatus for the manufacture of	J. A. Cook	343,108	June 1	473	120	35	1092
Sugar, &c. Arch for boiling sap	E. Willis	348,938	Sept. 7	544	143, 144	36	1147
Sugar bars and plates. Manufacturing	A. Fesca	334,855	Jan. 26	1906	508	34	375
Sugar-cutting machine	W. Baur and J. V. V. Booraem	349,027	Sept. 14	672	173, 174	36	1174
Sugar. Dissolving and straining	G. M. Newhall	334,972	Jan. 26	2055	548	34	401
Sugar from saccharine fluids. Separating	L. Sternberg	339,231	Apr. 6	163	.....	35	32
Sugar in boxes. Machine for packing cube-	F. C. Hersey and H. D. Winton	351,776	Nov. 9	58	15	37	469
Sugar into hard block sugar. Transforming soft	F. O. Matthiessen	333,652	Jan. 5	202	.....	34	40
Sugar, &c. Machine for sifting powdered	G. Dinkel	347,473	Aug. 17	1400	372, 373	36	739
Sugar. Manufacture of	F. Schwengers	345,810	July 20	1457	.....	36	274
Sugar. Manufacture of effervescent	H. Michaelis	342,694	May 25	2318	.....	35	959
Sugar. Manufacturing	H. Reichardt and C. Heyer	344,923	July 6	176	.....	36	33
Sugar. Manufacturing grape-	F. Soxhlet	335,044	Jan. 26	2158	.....	34	419
Sugar refining and filtering, clarifying, and purifying sugar-liquors, &c.	F. G. Wiechmann	343,287	June 8	749	.....	35	1151
Sugar. Tray for picking up and handling cut	W. Baur and J. V. V. Booraem	349,028	Sept. 14	675	174	36	1174
Sugars. Refining raw colored	C. Steffen	333,092	Nov. 23	1904	.....	37	839
Sulky-stirrup	T. D. Aitken	342,772	June 1	1	1	35	1007
Sulky. Trotting-	C. F. Stillman	335,650	Feb. 9	791	210	34	589
Sulky. Trotting-	C. F. Stillman	335,651	Feb. 9	792	210	34	589
Sulky. Trotting-	C. F. Stillman	335,652	Feb. 9	793	210, 211	34	589
Sulky. Trotting-	C. F. Stillman	350,169	Oct. 5	103	29	37	21
Sulphate of lime from saline solutions. Separating	T. G. Walker	337,900	Mar. 16	1368	355	34	1185
Sulphites. Manufacturing	E. B. Ritter and C. Kellner	338,558	Mar. 23	2267	595	34	1356
Sulphur from hydrogen sulphide. Obtaining	C. F. Claus	349,981	Sept. 28	1985	.....	36	1442
Sulphur from sulphureted hydrogen. Obtaining	C. F. Claus	354,393	Dec. 14	1083	.....	37	1212
Sulphuring-tube	R. A. Wirtemann	335,050	Jan. 26	2169	576	34	421
Sun-dial	R. L. Spencer	335,647	Feb. 9	788	209	34	588
Supply-tank. Self-acting	J. H. Lawless	338,984	Mar. 30	2884	763	34	1471
Support. Swinging	C. W. Cutler	350,581	Oct. 12	676	184	37	129
Supporter: *See* Axle-supporter. Hose-supporter. Corset and skirt-supporter. Pole and shaft supporter. Cuff-supporter. Shade, curtain, and lambrequin supporter. Door-supporter. Stallion-testicle supporter. Fence-supporter. Garment-supporter. Stocking-supporter. Hammock-supporter. Tree and post supporter. Uterine supporter. Horse-tail supporter.							
Suppository-machine	F. G. Uhlich	342,236	May 18	1725	459	35	845
Surface and planer gage	B. E. D. Stafford and F. E. Whipple	352,584	Nov. 16	1191	322	37	696
Surface-condenser	H. Warden	352,378	Nov. 9	936	250	37	640
Surface-gage	R. C. Whittelsey	348,442	Aug. 31	2798	751	36	1015
Surfacing and sizing machine. Chain-feed	L. P. Hoyt	344,836	July 6	45	11, 12, 13	36	10
Surgeon's operating table	J. K. Rickey	348,418	Aug. 31	2761	741	36	1008
Surgical chair	E. Bonnefoy	347,024	Aug. 10	747	199, 200	36	610
Surgical chair	W. B. Sanders	344,546	June 29	2531	654	35	1495
Surgical chair	F. E. Young	343,216	June 8	641	159, 160	35	1132
Surgical chair	F. E. Young. (Reissue)	10,761	Aug. 24	2435	651	36	938
Surgical instrument	C. G. Ashley	346,633	Aug. 3	235	64	36	505
Surgical instrument	P. F. Francke	343,306	June 8	777	194	35	1156
Surgical instrument	W. H. Wigmore	344,150	June 22	1974	504	35	1387
Surgical-needle holder	F. A. Stohlmann	348,537	Aug. 31	2936	789	36	1041
Surgical splint	H. Partrick	336,740	Feb. 23	2159	617	34	881
Surveyors' instruments. Graduated ball-and-socket joint for	W. A. Wright	343,558	June 8	1151	290	35	1232
Surveyor's target	W. Keuffel	337,959	Mar. 16	1454	377	34	1200
Suspender and spring button-fastener	C. A. Smith and R. P. Marble	351,811	Nov. 2	115	32	37	479
Suspender attachment	J. T. Budd	355,133	Dec. 28	2150	566	37	1428
Suspender attachment	J. T. Budd	355,134	Dec. 28	2152	566	37	1428

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Suspender attachment	F. Lind, Jr	343,715	June 15	1395	348	35	1272
Suspender-clasp	T. O. Potter	353,813	Dec. 7	226	61	37	1048
Suspender-clasp	H. L. Shenfield and C. Gellman	348,697	Sept. 7	230	60	36	1089
Suspender-end	W. Bloomberg	354,678	Dec. 21	1510	400	37	1294
Suspender-end	E. Deming	336,396	Feb. 16	1886	493	34	789
Suspender-end	E. Deming	337,750	Mar. 9	1161	302	34	1141
Suspender-end	J. H. Huff	349,377	Sept. 14	1008	258	36	1238
Suspenders	J. A. Adamson	335,411	Feb. 2	455	118	34	522
Suspenders	H. Beaudry	348,100	Aug. 24	2311	619	36	916
Suspenders	J. T. Brodnax	334,509	Jan. 19	1446	388	34	281
Suspenders	J. T. Budd	339,968	Apr. 13	1244	310	35	228
Suspenders	J. T. Budd	352,969	Nov. 23	1718	461	37	803
Suspenders	L. Clark	343,797	June 15	1492	376	35	1291
Suspenders	B. O. Foster	354,779	Dec. 21	1652	437	37	1322
Suspenders	F. M. Piper	352,348	Nov. 9	901	241	37	632
Suspenders	T. O. Potter	353,811	Dec. 7	224	60	37	1048
Suspenders	H. C. Whitmarsh	346,626	Aug. 3	225	61	36	504
Suspenders. Fastening device for	G. W. Stewart	353,893	Dec. 7	350	94	37	1071
Suspenders, &c. Metallic spring for	J. M. Sander	349,904	Sept. 28	1879	485	36	1422
Suspending and detaching device	M. Kauth	333,757	Jan. 5	360	97	34	67
Suspending device	G. W. McGill	337,970	Mar. 16	1472	382	34	1203
Suspension device	J. D. Griswold	346,995	Aug. 10	700	186	36	602
Suspension device	G. W. McGill	340,803	Apr. 27	2435	640	35	456
Suspension device	G. W. McGill	340,804	Apr. 27	2436	641	35	456
Suspension device	G. W. McGill	346,300	July 27	2133	549	36	409
Suspension device	C. J. Petersen	335,478	Feb. 2	537	141	34	537
Suspension device	C. J. Petersen	345,172	July 6	514	132	36	93
Suspension-rack	M. E. Dye	339,088	Mar. 30	3039	803	34	1497
Suture appliance	F. A. Reichardt	345,541	July 13	1062	270 271	36	196
Suture-instrument	W. Gibboney, Jr	349,791	Sept. 28	1731	447	36	1392
Swaging-machine	A. G. Smith	335,320	Feb. 2	326	85, 86	34	500
Sweat-pad attachment	F. Wiggins	343,880	June 15	1594	405	35	1310
Sweat-scraper and curry-comb. Combined	W. Spear	348,067	Aug. 24	2268	607	36	908
Swimming apparatus	W. J. Corbett	335,015	Jan. 26	2112	563	34	412
Swing	G. Bauer	336,080	Feb. 16	1411	374	34	706
Swing	T. W. Bowen	345,950	July 20	1648	425	36	309
Swing	L. M. Campi	340,977	May 4	10	3	35	507
Swing	S. B. McCorkle	334,965	Jan. 26	2043	545 546	34	399
Swing	O. L. Sprague	352,430	Nov. 9	999	269	37	653
Swing	W. C. Tuttle	340,530	Apr. 20	2047	526	35	380
Swing or cradle. Portable	G. W. Ziegler	340,407	Apr. 20	1875	482	35	349
Swing. Rotary	W. J. Bishop	340,193	Apr. 20	1573	398	35	293
Swing. Vertical rotary	L. M. Campi	336,696	Feb. 23	2308	603 604	34	871
Swinging and reclining chair	H. Kline	347,428	Aug. 17	1323	352 353	36	724
Swinging gate	J. T. Baltimore and J. F. Paddleford	337,360	Mar. 9	641	169	34	1051
Swinging gate	F. B. Jonas	346,050	July 20	1786	460	36	333
Swinging gate	J. Landis	335,997	Feb. 9	1204	320	34	663
Swinging gate	S. Mutti	344,787	June 29	2842	735	35	1553
Swinging gate	W. W. and W. Stage	343,550	June 8	1139	287	35	1220
Swinging gate	J. L. Talson	352,016	Nov. 2	417	113	37	535
Swinging gate. Automatic	S. L. Denney	350,189	Oct. 5	128	36	37	27
Switch: *See* Automatic switch. Railway-switch. Automatic cable-road switch. Railway safety-switch. Bell-switch. Store-service switch. Cut-out switch. Telegraphic switch. Derailing-switch. Telephone-switch. Electric switch. Telephone-exchange switch. Electrical switch. Three-throw switch. Frogless switch. Three-way switch. Lamp-switch. Tramway split switch.							
Switch	S. Curlin	337,745	Mar. 9	1155	300 301	34	1140
Switch and signal apparatus	J. T. Hambay	333,852	Jan. 5	487	132	34	91
Switch and signal apparatus	J. T. Hambay	342,907	June 1	181	46, 47	35	1038
Switch and signal lock	I. May	347,494	Aug. 17	1426	379	36	744
Switch-board and central-office apparatus	T. B. Doolittle	339,626	Apr. 13	785	193	35	145
Switch-board. Multiple	T. J. Perrin	348,578	Sept. 7	62	18	36	1059
Switch-board. Multiple	T. J. Perrin	348,579	Sept. 7	64	19	36	1059
Switch-lock	H. B. Potter	338,873	Mar. 30	2727	717 718	34	1443
Switch-lock and throw-bar	W. B. S. Reed	338,441	Mar. 23	2118	554	34	1330
Switch or circuit-controller	E. Weston	334,143	Jan. 12	900	246	34	175
Switch-stand	J. Brahn	342,922	May 25	1876	497	35	880
Switch-stand	H. V. Hinckley	348,968	Sept. 14	588	156	36	1161
Switch-stand	J. Jervis	340,719	Apr. 27	2322	611	35	434
Switch-stand	H. C. Singiser	345,081	July 6	395	99	36	72
Switch-stand	A. A. Strom	337,352	Mar. 2	629	165	34	1042
Switch-stand	F. C. Weir	351,235	Oct. 19	1612	423	37	308
Switch-stand and semaphore-signal combined	F. S. Guerber	346,848	Aug. 3	491	136	36	556
Switches. Apparatus for operating	E. J. Remillon	344,201	June 22	2049	524	35	1400
Switches, signals, &c. Mechanism for operating long-distance	J. W. Henderson	342,439	May 25	2048	540	35	909
Swivel for watch-chains	A. Abrahams	348,811	Sept. 7	365	99	36	1115
Syringe	J. Barnes	353,528	Nov. 30	2330	674	37	964
Syringe	G. H. Brinton	351,736	Nov. 2	10	3	37	460
Syringe	W. H. Conkle	337,249	Mar. 2	492	128	34	1017
Syringe	J. R. Hamilton and W. R. Smith	341,142	May 4	237	70	35	548
Syringe	R. Parker	341,855	May 11	1215	325	35	743

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Syringe	D. C. Perkins and B. F. Sutton	342,131	May 18	1596	426	35	821
Syringe	G. E. Philbrick	343,252	June 8	639	173	35	1142
Syringe	J. W. Ward and G. P. Sylvester	334,316	Jan. 12	1171	314	34	225
Syringe-bottle	N. S. Hamlin	351,105	Oct. 19	1441	377	37	276
Syringe, Embalming-	H. N. Siegenthaler and E. Craig	337,707	Mar 9	1111	287	34	1131
Syringe-tip, Vaginal-	C. B. Dickinson	354,309	Dec. 14	976	259	37	1191
Syringe-tube	B. F. Sutton	339,821	Apr. 13	1047	260	35	192
Syringe-tube coupling	B. F. Sutton	354,875	Dec. 21	1780	469	37	1347
Syringe, Vaginal	D. F. Bennett	350,105	Oct. 5	14	4	37	6
Syringe-valve	C. A. Tatum	334,059	Jan. 12	780	214	34	153
Syringes, Reservoir for fountain-	C. A. Tatum	344,016	June 22	1781	459	35	1352
Syringes, &c. Tempering-bulb for	T. S. Easton	338,045	Mar. 16	1574	410	34	1221
Table: *See* Combination-table. Convertible table. Corpse-supporting table. Dining-table. Dress-maker's table. Engraver's turn-table. Extension-table. Folding table. Game-table. Garden-table. Ironing-table. Knockdown table. Knockdown or folding table. Microscopist's turn-table. Railway transfer-table. Railway turn-table. Revolving table. Saw-table. Sawing-machine feed-table. Separating-table. Sewing-machine table. Shearing-table. Surgeon's operating-table. Tailor's cutting-table. Toilet-table. Turn-table. Veterinary operating-table. Work-table. Work-supporting table.							
Table	H. A. Barnhart	353,049	Nov. 23	1847	499	37	836
Table	C. A. Burrows	342,2-1	May 18	1795	476	35	857
Table	M. E. Converse	350,578	Oct. 12	673	184	37	129
Table	J. Hinkel	353,137	Nov. 23	1971	527	37	851
Table	J. Moeller	345,643	July 13	1215	314	36	224
Table	W. H. Newton	340,921	Apr. 27	2587	682	35	482
Table and clothes-rack, Combined	J. Lochner	338,089	Mar. 16	1627	423	34	1232
Table and desk	A. H. Heinemann	333,626	Jan. 5	168	45	34	33
Table and desk, Combined	J. G. Peace	334,977	Jan. 26	2061	549 / 550	34	402
Table, bath-tub, and wash-tub, Combination-	J. Cardona	341,222	May 4	354	98, 99	35	570
Table, blackboard, and molding-board for making relief-maps, &c. Combined	A. S. Clough	339,741	Apr. 13	949	233	35	173
Table-corner	H. J. Langston	353,144	Nov. 23	1981	529	37	854
Table extension-leaf	S. W. Wardwell, Jr	340,176	Apr. 20	1548	391	35	288
Table-knife	M. A. Morehouse	342,122	May 18	1586	423	35	819
Table-leaf support	F. C. Erlander	338,254	Mar. 23	1855	487	34	1224
Table-leaf support	C. Kade	339,427	Apr. 6	449	109	35	82
Table-leaf support	W. Kline	334,239	Jan. 12	1061	282	34	205
Table-leaf support	J. Pleukharp	340,519	Apr. 20	2036	523	35	378
Table-leaf support	W. Seng	336,757	Feb. 23	2382	623	34	885
Table-leaf support	I. Winans	335,265	Feb. 2	254	67	34	486
Table leg and hanger, Combined	W. A. Otto	344,399	June 29	2322	598	35	1458
Table-leg, Detachable	J. W. McLain	344,392	June 29	2314	596	35	1456
Table-leg fastening	H. A. Kaufhold	352,328	Nov. 9	872	235	37	626
Table slide, Extension-	T. G. Bugbee	352,114	Nov. 9	569	151	37	572
Table slide, Extension-	J W Potter	345,175	July 6	517	132	36	94
Tables, &c. Attachment for	E. P Hall	348,462	Aug. 31	2826	759	36	1020
Tables, chairs, &c. Adjustable and folding mechanism for	F. A. Blackmer	349,627	Sept. 21	1487	385	36	1341
Tables. Drawer attachment for	L. H. and D. W. Goodnow	351,635	Oct. 26	2231	577	37	426
Tablet	W. H. K. King	337,503	Mar. 9	862	218	34	1087
Tablet and file, Combined	W. G. Smith	338,795	Mar. 30	2617	689	34	1423
Tablet for stenographers. Practice-	M. V. B. Jenkins	342,102	May 18	1565	418	35	815
Tablet. School and business	C. M. Moody	334,537	Jan. 19	1481	397	34	287
Tablet. Writing-	G. W. Apgar	346,526	Aug. 3	99	26	36	479
Tablet. Writing-	E. C. Meeker	339,570	Apr. 6	677	165	35	124
Tablet. Writing-	C. Selah	346,228	July 27	2030	523	36	300
Tablets. Device for gaging and binding	J. D. Tracey	354,953	Dec. 28	1896	500	37	1380
Tablets. Pencil-clasp for writing-	A. D. Schaeffer	351,529	Oct. 26	2070	536 / 537	37	398
Tack	G. Paull	336,426	Feb. 16	1928	505	34	797
Tack-driver and carpet-stretcher	P. J. O'Connor	348,337	Aug. 31	2646	714	36	986
Tack-driving machine	M. V. B. Ethridge	335,515	Feb. 2	590	154	34	545
Tack-driving machine	M. V. B. Ethridge	349,387	Sept. 21	1169	303	36	1278
Tack-filling machine	M. V. B. Ethridge	335,514	Feb. 2	589	154	34	545
Tack machine. Staple-	W. F. Moody	354,166	Dec. 14	760	204 / 205	37	1152
Tack-puller	F. G. Whytal	347,019	Aug. 10	743	198	36	610
Tack-sorting machine. Double-pointed	J. F. Kingwill	354,909	Dec. 28	1833	484	37	1368
Tack-strip	G. W. Copeland	354,462	Dec. 14	1177	315	37	1228
Tack-strip	E. Woodward and G. W. Copeland	333,709	Jan. 5	299	82	34	56
Tack-strip	E. Woodward and G. W. Copeland	336,539	Feb. 16	2073	545	34	823
Tack-strip, Lasting	F. Chase	337,662	Mar. 9	1055	271	34	1123
Tack-strips. Manufacturing	T. Barrett	343,689	June 15	1343	336	35	1263
Tacks. Device for driving and bending headless	O. Higgins and A. S. Condit	337,061	Mar. 2	237	63	34	969
Tackle	J. Vida	342,056	May 18	1487	398	35	800
Tackle-block	G. A. Ford	350,238	Oct. 5	195	56	37	41
Tackle-block	E. Robbins	350,771	Oct. 12	943	253 / 254	37	179
Tag	M. Alshuler	341,205	May 4	320	91	35	564
Tag	R. Blankenburg	351,571	Oct. 26	2128	551	37	409
Tag	A. Morrell	338,685	Mar. 23	2452	647	34	1388

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Tag	J. C. St. John	340,527	Apr. 20	2044	525	35	380
Tag and envelope. Combined	H. M. Crouse	336,841	Feb. 23	2495	657	34	906
Tag-attaching device	M. L. Howell	352,410	Nov. 9	975	262	37	648
Tag-holder	C. E. Ongley	342,971	June 1	276	71	35	1056
Tag-making machine	H. Denney	334,220	Jan. 12	1031	274, 275	34	200
Tag. Merchandise	H. C. Daniels	335,274	Feb. 2	265	70	34	488
Tag. Sample	J. Pusey	354,518	Dec. 14	1260	337	37	1243
Tag. Shipping	J. A. Pegg	340,455	Apr. 20	1936	497	35	360
Tag, tally, or check	G. W. Mosely	345,443	July 13	899	224	36	167
Tags. Machine for manufacturing pin	S. E. Mower	352,254	Nov. 9	773	206, 207, 208	37	607
Tags. Making and stringing merchandise, &c.	E. P. Kelsey	344,484	June 29	2435	626	35	1478
Tailor's chalk. Implement for sharpening	R. Wyatt	355,242	Dec. 28	2311	609	37	1460
Tailor's chalk. Implement for sharpening	R. Wyatt	355,243	Dec. 28	2312	609	37	1461
Tailor's cutting-table	D. L. Ketcham	338,601	Mar. 23	2325	609	34	1366
Tailor's gas-iron	D. A. Upham and T. J. Fay	343,409	June 8	950	237	35	1187
Tailors' use. Curve-scriber for	G. Frega	347,760	Aug. 17	1812	482	36	815
Tally. Grain	J. Miller	344,395	June 29	2316	597	35	1457
Tally-sheet and poll-book. Combined	W. M. Kinnard	340,218	Apr. 20	1610	407	35	300
Tambourine	C. N. Post	347,512	Aug. 17	1451	385	36	748
Tambourine	C. N. Post	349,001	Sept. 14	642	166	36	1169
Tamping-bar	T. Gleason	351,698	Dec. 21	1536	407	37	1300
Tamping-bar	G. W. Hadesty	337,492	Mar. 9	848	215	34	1085
Tamping-machine	J. W. Carley	347,920	Aug. 24	2052	544, 545	36	868
Tank: *See* Compartment-tank. Flush-tank. Flushing-tank. Measuring-tank. Oil-tank. Railway supply-tank. Refrigerator-tank. Safety-tank. Water-tank. Water-closet tank.							
Tank	A. Ordonez y Ponce	353,156	Nov. 23	2000	536	37	858
Tanks. Float-and-valve mechanism for	J. Howes	350,628	Oct. 12	751	206	37	144
Tanks. Stop-and-waste connection for	P. Harvey	354,700	Dec. 21	1538	408	37	1300
Tanks. Water-supply apparatus for	W. H. Bate	351,732	Nov. 2	4	1	37	459
Tannin from wood. Extracting	E. Tavernier	351,540	Oct. 26	2083	540	37	401
Tanner's apron-support	A. J. Manley	346,487	Aug. 3	48	12	36	469
Tanning	J. W. Fries	343,166	June 8	570	.....	35	1119
Tanning	J. W. Fries	343,167	June 8	572	.....	35	1120
Tanning	G. W. Hersey	349,589	Sept. 21	1440	.....	36	1331
Tanning	F. Latulip	341,583	May 11	856	228	35	672
Tanning	F. Latulip. (Reissue)	10,792	Dec. 21	1789	471	37	1348
Tanning	J. T. Rhyne	351,204	Oct. 19	1575	.....	37	302
Tanning composition	M. Sutherland	350,706	Oct. 12	855	.....	37	163
Tanning compound	H. L. Wilcox	353,341	Nov. 30	2253	.....	37	911
Tanning hides	J. S. Billwiller	345,827	July 20	1478	.....	36	278
Tanning hides and skins	S. J. Dobson	340,199	Apr. 20	1583	.....	35	295
Tanning with sulpholeic acid	A. Müller	338,182	Mar. 16	1760	.....	34	1259
Tap	W. Murchey	343,056	June 1	399	102	35	1079
Tap and faucet	R. W. Shaw and C. D. V. Davis	350,897	Oct. 12	1127	300	37	212
Tap and faucet connection for beer and other barrels	W. E. and J. H. Curtis	335,743	Feb. 9	927	244	34	614
Tap. Beer	H. Nadorff	352,144	Nov. 9	623	165	37	581
Tap-holes of casks. Apparatus for automatically closing	J. E. Minnitt and J. H. Vickers	334,970	Jan. 26	2053	547	34	401
Tapping beer-casks, &c. Device for	J. W. L. Coit and J. R. McNamara	349,210	Sept. 14	920	236	36	1220
Tapping-machine	V. H. Ernst	333,937	Jan. 5	603	164, 165	34	113
Tapping-machine	G. K. Garvin and C. E. Hadley	342,866	June 1	128	32	35	1030
Tapping mains. Device for	W. S. Payne	351,397	Oct. 26	1875	489	37	360
Target	O. F. Seibold	334,293	Jan. 19	1144	306	34	221
Target	E. C. Taylor	335,655	Feb. 9	795	212	34	590
Target	E. C. Taylor	347,747	Aug. 17	1797	479	36	812
Target. Ball	R. T. and M. L. Crouch	339,150	Apr. 6	48	15	35	12
Target. Collapsible flying	G. L. Eason	341,463	May 11	693	185	35	640
Target. Electric annunciator	M. Ullman	346,876	Aug. 3	536	145, 146	36	565
Target. Flying	F. J. Curran	338,633	Mar. 23	2371	624	34	1374
Target. Flying	F. C. Damm	334,848	Jan. 26	1894	505	34	373
Target. Flying	J. H. Jacobs	349,160	Sept. 14	857	219	36	1208
Target. Revolving	W. H. Adams	350,227	Oct. 5	184	53	37	38
Target. Surveyor's	A. Craven	340,702	Apr. 27	2296	605	35	429
Target-trap	F. J. Curran	346,988	Aug. 10	691	184	36	601
Target-trap	F. C. Damm	344,353	June 29	2260	581	35	1445
Target-trap	A. E. Spangler	344,504	June 29	2470	634	35	1483
Target-trap	B. Teipel	340,639	Apr. 27	2207	581	35	415
Target-trap and flying target	B. Teipel	342,718	May 25	2452	650	35	903
Target traps. Arm for flying	F. C. Damm	334,849	Jan. 26	1895	505	34	373
Targets. Making	F. Kimble	334,782	Jan. 26	1815	.....	34	359
Tea. Clarifying	S. C. Davidson	352,809	Nov. 16	1499	.....	37	753
Tea-kettle	P. Ford	342,293	May 18	1825	482	35	861
Tea-kettle cooker	A. A. Davis	344,308	June 22	2194	563	35	1427
Tea-kettle spout	J. W. Yates	336,977	Mar. 2	125	34	34	948
Tea or coffee cup	B. Edgar	351,355	Oct. 19	1638	430	37	313
Tea or coffee pot	O. Brumble	340,552	Apr. 27	2084	538	35	395
Tea-pot and coffee-pot handle	F. E. Baker	347,021	Aug. 10	745	198	36	610
Tea-pots and other vessels. Adjustable lid-holder for	M. Dean	352,609	Nov. 16	1228	332	37	703
Teaching fractions	E. Southworth	342,651	May 25	2347	620	35	962
Teaching sewing. Means for	E. S. Paillot and L. Charbonnier	337,609	May 9	992	254	34	1111
Teaching spelling. Apparatus for	F. S. De Lano	342,076	May 18	1528	408	35	808
Teaching spelling. Kindergarten apparatus for	T. Dougherty	342,737	May 25	2483	660	35	990
Tedder	A. G. Barton	344,803	July 6	1	1	36	3
Tedder	D. W. Bovee	352,605	Nov. 16	1222	331	37	702

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Tedder	C. R. Furey	354,857	Dec. 21	1751	463	37	1341
Tedder	W. H. Hall	352,973	Nov. 23	1724	462	37	804
Tedder	W. H. Hall	352,974	Nov. 23	1725	463	37	805
Tedder	J. M. Holler	336,319	Feb. 16	1781	466	34	769
Tedders. Coupling-iron for	J. H. Thomas and J. E. Offutt	344,604	June 29	2602	674	35	1509
Telegraph and other circuits. Signal-box for fire-	J. C. Wilson	344,430	June 29	2365	609	35	1466
Telegraph and telephone protector	C. C. Drake	336,040	Feb. 9	1341	355	34	687
Telegraph. Autographic	J. H. Robertson	353,592	Nov. 30	2628	701	37	982
Telegraph. Autographic	J. H. Robertson	353,593	Nov. 30	2629	702, 703	37	983
Telegraph. Autographic	J. H. Robertson	353,594	Nov. 30	2632	703	37	983
Telegraph. Automatic printing-	E. J. Mallett	341,042	June 1	371	96	35	1074
Telegraph-box. Signal-call	J. E. Smith	343,738	June 15	1423	355, 356	35	1278
Telegraph-cables. Machine for winding lead tape upon	F. P. Duplain	346,433	July 27	2328	599	36	444
Telegraph-cables. Machine for winding lead tape upon	W. R. Patterson	346,414	July 27	2299	592	36	439
Telegraph call-box	J. H. La Bau	334,785	Jan. 26	1817	484	34	359
Telegraph. District-	J. W. Chase	346,355	July 27	2207	566	36	422
Telegraph. District or fire-alarm	J. C. Wilson	341,115	May 4	198	61	35	541
Telegraph. Duplex	B. E. J. Eils	337,314	Mar. 2	585	154	34	1034
Telegraph. Electric	E. A. Cowper	353,541	Nov. 30	2550	680, 681	37	968
Telegraph. Fire-alarm	J. C. Wilson	341,114	May 4	194	60, 61	35	541
Telegraph-instrument	J. Steiner	354,814	Dec. 21	1697	448, 449	37	1331
Telegraph-instrument	J. Steiner	354,815	Dec. 21	1698	449	37	1331
Telegraph-instrument	C. G. Wright	352,600	Nov. 16	1214	329	37	700
Telegraph instrument. Printing-	A. Wirisching	354,001	Dec. 7	509	137, 138	37	1099
Telegraph instrument. Steno-	W. A. Kaler	352,059	Nov. 2	474	129	37	548
Telegraph-instruments. Key for	G. F. Thompson	343,742	June 15	1430	357	35	1279
Telegraph-key	J. M. Biggs	351,485	Oct. 26	2066	521	37	384
Telegraph-key	M. R. Jenkins	351,834	Nov. 2	142	40	37	485
Telegraph key and register	L. S. Crandall	344,351	June 29	2255	579	35	1445
Telegraph-key. Convertible	J. A. Maloney	339,909	Apr. 13	1165	290	35	214
Telegraph-key. Convertible	J. A. Maloney	343,469	June 8	1039	259	35	1202
Telegraph-key. Convertible	J. A. Maloney and A. G. Johnson	336,653	Feb. 23	2248	586	34	859
Telegraph key. Electric	R. A. Macready	340,134	Apr. 20	1479	374	35	276
Telegraph-keys. Automatic circuit-closer for	A. C. McNeal	335,605	Feb. 9	728	194	34	578
Telegraph. Multiple harmonic printing-	G. A. Cardwell	335,681	Feb. 9	828	221	34	596
Telegraph-pole	H. C. Herron	347,602	Aug. 17	1579	419	36	773
Telegraph-pole	J. E. Lippincott	349,049	Sept. 14	706	180	36	1180
Telegraph-pole. Metallic pole for use as a	S. H. Terry	338,115	Mar. 16	1672	434	34	1240
Telegraph. Printing-	C. L. Buckingham	350,615	Oct. 12	726	197	37	140
Telegraph. Printing-	C. L. Buckingham	350,616	Oct. 12	729	198	37	140
Telegraph. Printing-	R. N. Dyer	335,275	Feb. 2	266	70	34	488
Telegraph. Printing-	S. D. Field	338,343	Mar. 23	1977	521	34	1305
Telegraph. Printing-	S. D. Field	338,344	Mar. 23	1978	521	34	1306
Telegraph. Printing-	C. L. Healy	341,655	May 11	948	251	35	690
Telegraph. Printing-	C. L. Healy	341,656	May 11	950	251	35	691
Telegraph. Printing-	J. H. Linville	350,983	Oct. 19	1251	333, 334, 335	37	242
Telegraph. Printing-	J. H. Linville	350,984	Oct. 19	1265	335, 336	37	244
Telegraph. Printing-	A. C. Robbins	335,482	Feb. 2	546	143, 144	34	538
Telegraph. Printing-	D. B. Scott	350,469	Oct. 5	521	144, 145	37	98
Telegraph. Printing-	R. J. Sheehy	334,294	Jan. 12	1145	206, 207	34	221
Telegraph. Quadruplex	J. W. Larish	340,130	Apr. 20	1473	372, 373	35	275
Telegraph. Quadruplex	W. Maver, Jr	349,945	Sept. 28	1936	500	36	1432
Telegraph. Railway-	E. D. Ives	353,789	Dec. 7	188	52	37	1042
Telegraph. Railway-	C. W. Williams	343,095	June 1	457	117	35	1089
Telegraph. Railway-car	L. J Phelps	334,186	Jan. 12	970	262, 263	34	187
Telegraph. Railway-car	L. J. Phelps	334,187	Jan. 12	975	263	34	188
Telegraph. Railway-car	L. J. Phelps	334,188	Jan. 12	977	263	34	188
Telegraph. Railway-car	L. J. Phelps	334,189	Jan. 12	979	264	34	189
Telegraph receiver. Printing-	H. Mahnken	345,245	July 6	613	155	36	111
Telegraph receiver. Printing-	W. J. McCausland	339,312	Apr. 6	282	71	35	53
Telegraph-register	L. Winterhalder	338,328	Mar. 23	1954	514	34	1302
Telegraph-register	F. B. Wood	338,329	Mar. 23	1956	514, 515	34	1302
Telegraph relay. Electric-	J. I. Conklin, Jr	353,288	Nov. 30	2181	584	37	899
Telegraph signal-box. District-	F. A. Holcomb	335,701	Feb. 9	864	228	34	601
Telegraph-sounder	C. D. Haskins	352,317	Nov. 9	861	232	37	624
Telegraph-sounder	A. S. Keating	334,871	Jan. 26	1923	512, 513	34	378
Telegraph-sounder	J. A. Maloney	343,468	June 8	1038	259	35	1202
Telegraph-sounder. Electro-phonetic	H. A. and H. A. House, Jr	354,139	Dec. 14	721	194	37	1145
Telegraph. Stock-quotation	P. Kenny	339,558	Apr. 6	658	159, 160	35	118
Telegraph system	M. G. Farmer	349,214	Sept. 14	926	237	36	1222
Telegraph system. Fire-alarm-	S. A. Chase	350,804	Oct. 12	998	267, 268	37	188
Telegraph system. Printing-	J. C. Wilson	352,435	Nov. 9	1005	271	37	654
Telegraph systems. Non-interfering street-box for fire-alarm	A. Anderson	354,761	Dec. 21	1630	431, 432	37	1318
Telegraph-transmitter	G. W. Baldrige	338,691	Mar. 30	2463	650	34	1396

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Telegraph-transmitter	G. H. Lasar	338,757	Mar. 30	2566	678	34	1414
Telegraph-transmitter	J. W. Shryock	353,715	Dec. 7	93	25	37	1023
Telegraph transmitter. Printing-	C. L. Buckingham	350,617	Oct. 12	732	198	37	141
Telegraph-wire and insulator-fastening	J. Wilson	347,454	Aug. 17	1372	365	36	733
Telegraph-wire and insulator-fastening	J. Wilson	349,022	Sept. 14	668	171	36	1173
Telegraph-wires. Chimney-support for	A. Potts	340,520	Apr. 20	2037	523	35	378
Telegraphs. Branch circuit for quadruplex	W. Maver, Jr	338,996	Mar. 30	2905	770	34	1475
Telegraphs. Branch circuit for quadruplex	W. Maver, Jr	340,137	Apr. 20	1483	375	35	277
Telegraphs. Duplexing railway	L. J. Phelps	351,524	Oct. 26	2060	535	37	396
Telegraphs. Duplexing railway	L. J. Phelps	351,525	Oct. 26	2063	535	37	397
Telegraphs. Local circuit for quadruplex	W. Maver, Jr	340,136	Apr. 20	1481	374	35	276
Telegraphs. Signaling apparatus for police	L. H. McCullough	350,634	Oct. 12	759	208, 209	37	145
Telegraphs. Transmitter for harmonic printing	G. A. Cardwell and F. K. Fitch	335,682	Feb. 9	833	221	34	596
Telegraphs. Transmitter for printing	C. L. Healy	341,654	May 11	947	251	35	690
Telegraphic and telephonic signal system. Police	L. B. Firman	340,203	Apr. 20	1588	401, 402	35	296
Telegraphic code	A. G. Hoyt	335,929	Feb. 9	1194	317	34	661
Telegraphic instrument	G. W. Stewart	344,505	June 29	2472	635	35	1484
Telegraphic instrument. Learners	E. Bonsall	336,284	Feb. 16	1736	454	34	760
Telegraphic key	R. A. Macready	346,930	Aug. 10	620	166	36	588
Telegraphic relay	S. A. Chase	342,576	May 25	2239	594	35	944
Telegraphic relay	G. Westinghouse, Jr	352,725	Nov. 16	1391	377	37	734
Telegraphic relay. Polarized	J. C. Ludwig	337,272	Mar. 2	522	136	34	1023
Telegraphic repeater	J. Kölzer	337,590	Mar. 9	969	248, 249	34	1107
Telegraphic repeater. Multiple	W. Maver, Jr	339,449	Apr. 6	482	118	35	89
Telegraphic switch	J. Absterdam	354,996	Dec. 28	1950	514, 515	37	1390
Telegraphy. Autographic	J. H. Robertson	350,320	Oct. 5	291	84	37	59
Telegraphy. Automatic	E. J. Mallett	343,043	June 1	375	97	35	1075
Telegraphy. Automatic	E. J. Mallett	343,044	June 1	379	97	35	1075
Telegraphy. Diplex and quadruplex	G. P. Freer	352,865	Nov. 16	1570	424	37	767
Telegraphy. Dynamo	S. D. Field	343,953	June 15	1687	432	35	1329
Telegraphy. Fire-	S. J. Sanford	337,439	Mar. 9	779	199	34	1074
Telegraphy. Fire-alarm	T. F. Gaynor	335,026	Jan. 26	2129	567	34	415
Telegraphy. Multiple	S. D. Field	353,128	Nov. 23	1952	523	37	848
Telegraphy. Quadruplex	J. M. Moffatt and E. Blakeney	351,933	Nov. 2	301	83	37	513
Telegraphy. Railway	T. A. Edison and E. T. Gilliland	350,235	Oct. 5	192	55	37	40
Telephone	J. J. Barrier and F. T. de Lavernède	344,153	June 22	1976	505	37	1387
Telephone	S. Bergmann	337,231	Mar. 2	466	121	34	1012
Telephone	S. Bergmann	344,938	July 6	196	50	36	36
Telephone	J. W. Bonta	333,816	Jan. 5	435	118	34	81
Telephone	W. R. Cole	352,735	Nov. 16	1402	379	37	736
Telephone	T. A. Edison and S. Bergmann	337,234	Mar. 2	499	130	34	1018
Telephone	R. Eickemeyer	351,905	Nov. 2	250	70	37	504
Telephone	J. Emmner, Jr	346,031	July 20	1767	455	36	329
Telephone	M. G. Farmer	351,258	Oct. 19	1642	431	37	313
Telephone	E. T. Gilliland	343,449	June 8	1006	251	35	1196
Telephone	G. Herz	349,043	Sept. 14	696	178	36	1178
Telephone	W. C. Lockwood	346,377	July 27	2239	574	36	429
Telephone	J. F. McLaughlin	343,334	June 8	828	208	35	1163
Telephone	W. J. Morton	354,169	Dec. 14	766	206	37	1153
Telephone	N. F. Palmer	353,755	Dec. 7	141	39	37	1033
Telephone	A. M. Phelps	344,983	July 6	263	66	36	47
Telephone	C. A. Randall	336,744	Feb. 23	2364	618, 619	34	882
Telephone	P. Seiler	351,209	Oct. 19	1580	415	37	303
Telephone	W. C. Turnbull	344,067	June 22	1857	477	35	1366
Telephone	T. A. Watson	348,077	Aug. 24	2279	610	36	910
Telephone. Acoustic	C. D. Bentley	334,069	Jan. 12	796	219	34	156
Telephone. Acoustic	G. W. Lord	346,594	Aug. 3	179	48	36	495
Telephone and telegraph circuit	J. J. Carty	348,512	Aug. 31	2897	779	36	1033
Telephone apparatus for divers	H. V. Hayes	333,940	Dec. 7	418	113	37	1083
Telephone appliance	J. F. McLaughlin	355,190	Dec. 28	2230	589	37	1444
Telephone attachment	J. T. Lister	350,203	Oct. 5	150	45	37	32
Telephone-call	J. C. Wilson	336,972	Mar. 2	117	32	34	947
Telephone-call. Automatic	C. F. Willis	350,610	Oct. 12	719	195, 196	37	138
Telephone call-bell system	F. E. Fisher	336,002	Feb. 9	1288	342	34	678
Telephone-call. Individual	J. H. Kinsman	334,390	Jan. 12	1265	342	34	242
Telephone-check apparatus	D. J. Smith and D. Sinclair	355,226	Dec. 28	2289	603, 604	37	1456
Telephone-circuit	J. A. Barrett	350,715	Oct. 12	868	234	37	165
Telephone-circuit	T. B. Doolittle	335,436	Feb. 2	487	127	34	529
Telephone-circuit	T. A. Edison and E. T. Gilliland	340,709	Apr. 27	2305	607	35	430
Telephone-conductor	A. A. Knudson	351,704	Oct. 26	2318	602	37	444
Telephone diaphragm. Mechanical	W. Taylor	335,321	Feb. 3	327	86	34	500
Telephone exchange. Mechanical	G. F. Shaver	354,942	Dec. 28	1883	497	37	1378
Telephone-exchange switch	C. E. Scribner	345,325	July 13	732	185	36	138
Telephone-exchange system. Automatic	J. H. Bickford	349,975	Sept. 28	1974	511	36	1439
Telephone-exchange system. Automatic	J. H. Bickford	349,976	Sept. 28	1980	512	36	1440
Telephone-exchange system. Automatic	T. D. Lockwood	335,708	Feb. 9	871	230	34	603
Telephone-exchange systems. Toll-collecting mechanism for	P. L. Rose and G. Rein	346,866	Aug. 3	520	142	36	561
Telephone-exchanges. Signal system for	W. S. Johnson and C. L. Fortier	335,934	Feb. 9	1200	319	34	662
Telephone-exchanges. Switching apparatus and test-circuit for	J. J. Carty	353,350	Nov. 30	2264	606	37	913
Telephone-lines. Circuit-breaker for	G. H. Glass and W. Clark	340,912	Apr. 27	2574	678	35	480
Telephone-lines. Electric time system for	J. S. Ross	341,110	May 4	187	59	35	539
Telephone-lines. Preventing disturbances on	J. E. Dann and J. Lapp	343,014	June 1	325	83	35	1066
Telephone-lines. Transmitter for electric	C. A. Bell	336,081	Feb. 16	1412	375	34	707
Telephone. Magneto-	S. P. Thompson	339,500	Apr. 6	555	144	35	103
Telephone. Mechanical	W. H. Eastman	348,896	Sept. 7	488	129	36	1127

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Telephone. Mechanical	A. W. Hall	336,640	Feb. 23	2223	580, 581	34	854
Telephone. Mechanical	B. L. Kenyon	348,328	Aug. 31	2635	710	36	984
Telephone. Mechanical	H. Lamont	338,983	Mar. 30	2881	762, 763	34	1471
Telephone. Mechanical	R. O. Middleton	336,731	Feb. 23	2250	615	34	879
Telephone. Mechanical	G. F. Shaver	342,395	May 25	1985	524	35	898
Telephone. Mechanical	A. W. Steiger	338,620	Mar. 23	2354	619	34	1371
Telephone mouth-piece	J. Miller	337,952	Mar. 16	1474	383	34	1204
Telephone-operators. Arm-support for	C. K. Mead	351,389	Oct. 26	1837	482	37	354
Telephone. Pneumatic acoustic	J. A. Maloney	338,994	Mar. 30	2902	769	34	1474
Telephone. Pneumatic acoustic	J. A. Maloney	338,995	Mar. 30	2904	769	34	1475
Telephone-receiver	S. Bergmann	337,232	Mar. 2	467	122	34	1012
Telephone-receiver	J. E. Dann and J. Lapp	338,491	Mar. 23	2183	571	34	1343
Telephone-receiver	A. E. Dolbear	355,149	Dec. 28	2171	572	37	1432
Telephone-receiver	N. Dowling	333,932	Jan. 5	597	163	34	112
Telephone-receiver	J. C. Eichmeyer	354,402	Dec. 14	1094	294	37	1213
Telephone-receiver	L. S. Fairbanks	349,575	Sept. 21	1424	368	36	1327
Telephone-receiver	J. T. Guthrie	341,000	May 4	39	11	35	513
Telephone-receiver	H. A. Schneckloth	355,032	Dec. 28	2001	527	37	1309
Telephone-receiver	L. Townsend	348,429	Aug. 31	2778	746	36	1012
Telephone-receiver	W. C. Turnbull	344,333	June 22	22 2	572	35	1432
Telephone-receiver	W. C. Turnbull	346,962	Aug. 10	661	176	36	595
Telephone-receivers. Diaphragm for	N. Dowling	337,753	Mar. 9	1166	303	34	1141
Telephone. Receiving	O Lugo	348,134	Aug. 24	2349	630	36	923
Telephone-repeater	M. G. Farmer	351,257	Oct. 19	1640	431	37	313
Telephone-repeater. Induction	S. F. Shelbourne	342,881	June 1	151	38	35	1033
Telephone-switch	J. A. Blattau and G. A. Boyden	340,028	Apr. 13	1331	333	35	243
Telephone-switch	J. F. Mehren	349,947	Sept. 28	1939	501	36	1433
Telephone-switch	W. C. Turnbull	338,889	Mar. 30	2757	725	34	1448
Telephone-switch	W. C. Turnbull	348,936	Sept. 7	543	143	36	1146
Telephone switch and circuit	E. Pope	348,139	Aug. 24	2356	632	36	924
Telephone system	N. C. Heissler	351,597	Oct. 26	2174	562, 563	37	416
Telephone system	C. Herz	349,042	Sept. 14	693	178	36	1178
Telephone system	C. A. Jackson	335,588	Feb. 9	702	186, 187	34	573
Telephone system. Mechanical	M. G. Farmer	351,588	Oct. 26	2158	558	37	413
Telephone systems. Galvanic battery and switch for	C. A. A. T. de St. Aubin	338,938	Mar. 30	2816	743	34	1460
Telephone. Thermal	W. Stanley, Jr	348,501	Aug. 31	2881	775	36	1030
Telephone time-register	J. H. Tabony	349,539	Sept. 21	1376	357	36	1318
Telephone-toll system. Automatic	P. L. Rose and G. Rein	346,865	Aug. 3	516	141	36	560
Telephone-transmitter	H. Alabaster and T. E. Gatehouse	335,791	Feb. 9	1000	265	34	626
Telephone-transmitter	A. Beale	342,775	June 1	3	1	35	1007
Telephone-transmitter	C. A. Bell	336,083	Feb. 16	1419	395, 396	34	707
Telephone-transmitter	E. Berliner	340,853	Apr. 27	2496	657	35	466
Telephone-transmitter	E. Berliner	344,514	June 29	2485	640	35	1486
Telephone-transmitter	E. Berliner	351,569	Oct. 26	2125	550	37	408
Telephone-transmitter	J. W. Bonta	352,176	Nov. 9	679	181	37	590
Telephone-transmitter	J. W. Bonta	352,177	Nov. 9	680	181	37	590
Telephone-transmitter	J. W. Bonta	352,178	Nov. 9	681	181, 182	37	590
Telephone-transmitter	J. W Bonta	352,179	Nov. 9	682	182	37	591
Telephone-transmitter	G. Brambel	345,762	July 20	1392	361	36	263
Telephone-transmitter	W. Burnley	335,501	Feb. 2	572	149, 150	34	543
Telephone-transmitter	W. Burnley	335,502	Feb. 2	574	150	34	543
Telephone-transmitter	W. Burnley	353,536	Nov. 30	2545	678	37	967
Telephone-transmitter	W. R. Cole	351,250	Oct. 19	1632	429	37	312
Telephone-transmitter	W. H. Collins	352,119	Nov. 9	577	154	37	574
Telephone-transmitter	J. E. Dann and J. Lapp	338,492	Mar. 23	2186	572	34	1343
Telephone-transmitter	J. E. Dann and J. Lapp	338,660	Mar. 23	2406	633	34	1380
Telephone-transmitter	J. E. Dann and J. Lapp	347,924	Aug. 24	2060	547	36	869
Telephone-transmitter	N. Dowling	335,510	Feb. 2	583	152, 153	34	545
Telephone-transmitter	N. Dowling	335,511	Feb. 2	585	153	34	545
Telephone-transmitter	D. Drawbaugh	339,745	Apr. 13	954	234, 235	35	174
Telephone-transmitter	D. Drawbaugh	354,541	Dec. 21	1300	346	37	1257
Telephone-transmitter	D. Drawbaugh	354,542	Dec. 21	1302	346	37	1257
Telephone-transmitter	H. Ehrlich	346,846	Aug. 3	489	135	36	556
Telephone-transmitter	W. P. Freeman	335,806	Feb. 9	1020	270	34	631
Telephone-transmitter	E. H. Johnson	341,579	May 11	852	226	35	671
Telephone-transmitter	A. K. Keller and E. H. Lyon	355,364	Feb. 2	390	101	34	511
Telephone-transmitter	J. W. McDonough	353,694	Dec. 7	55	15	37	1017
Telephone-transmitter	J. F. McLaughlin	341,263	May 4	408	112	35	580
Telephone-transmitter	J. F. McLaughlin	341,264	May 4	408	112	35	580
Telephone-transmitter	G. L. Roberts	330,772	Oct. 12	944	254	37	179
Telephone-transmitter	A. W. Rose	354,241	Dec. 14	871	230, 231	37	1172
Telephone-transmitter	F. G Sargent	350,215	Oct. 5	171	50	37	35
Telephone-transmitter	S. Tainter	336,173	Feb. 16	1556	410	34	730
Telephone-transmitter	S. P. Thompson	339,501	Apr. 6	557	134	35	103
Telephone-transmitter	S. P. Thompson and P. Jolin	339,499	Apr. 6	554	134	35	103
Telephone-transmitter	H. S. Thornberry	336,268	Feb. 16	1709	446	34	755
Telephone-transmitter	L. Townsend	348,430	Aug. 31	2779	746, 747	36	1012
Telephone-transmitter	W. C. Turnbull	336,876	Feb. 23	2545	670	34	916
Telephone-transmitter	W. C. Turnbull	336,877	Feb. 23	2546	670	34	916
Telephone-transmitter	W. C. Turnbull	339,121	Mar. 30	3086	816, 817	34	1505
Telephone-transmitter	W. L. Voelker	354,818	Dec. 21	1703	451	37	1332

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Telephone-transmitter	M. Wheless and J. D. Darden	352,900	Nov. 16	1617	435	37	776
Telephone-transmitter	J. P. Young	345,658	July 13	1241	321	36	229
Telephone-transmitters. Electrode for	T. A. Edison	348,114	Aug. 24	2327	624	36	919
Telephone-transmitters. Mouth-piece for	G. L. Lavery	336,329	Feb. 16	1793	469	34	772
Telephone-trumpet	E. L. Hall	350,737	Oct. 12	899	241	37	170
Telephones. Adjustable support for	C. C. Gould	354,469	Dec. 14	1186	318	37	1230
Telephones. Angle-hanger for acoustic or mechanical	M. Gerst	353,489	Nov. 30	2470	660	37	953
Telephones. Auxiliary mouth-piece for	N. A. Tanner	342,477	May 25	2101	555	35	919
Telephones. Conductor for mechanical	J. S. Jones	353,683	Dec. 7	45	12	37	1015
Telephones. Conductor for mechanical	J. S. Jones	353,684	Dec. 7	46	12	37	1015
Telephones. Conductor for mechanical	H. Seligman	342,468	May 25	2090	552	35	918
Telephones. Line-connection for mechanical	G. F. Shaver	352,577	Nov. 16	1183	320	37	695
Telephones. Line-holder for acoustic	A. W. S. Davis	347,325	Aug. 17	1186	318	36	700
Telephonic apparatus	P. Gannon	349,839	Sept. 28	1799	465	36	1406
Telephonic apparatus	H. N. Hastings	339,766	Apr. 13	983	242	35	180
Telephonic apparatus	J. F. McLaughlin	355,189	Dec. 28	2229	588	37	1444
Telephonic apparatus	T. J. Perrin	347,374	Aug. 17	1257	333	36	712
Telephonic apparatus	J. W. See	350,160	Oct. 5	87	25	37	19
Telephonic apparatus. Magneto-	F. H. Brown	341,370	May 4	558	154	35	605
Telephonic circuit	W. Marshall	349,312	Sept. 21	1046	268	36	1254
Telephonic communication. System of	C. A. Bell	346,708	Aug. 3	324	89	36	524
Telephonic communication. System of	T. B. Doolittle	339,625	Apr. 13	778	192 193	35	143
Telephonic receiver and circuit	W. Marshall	341,259	May 4	404	111	35	579
Telephonic repeater	T. A. Edison	340,707	Apr. 27	2303	606	35	430
Telephonic signaling and switching system	G. H. Glass and W. Clark	340,911	Apr. 27	2573	678	35	479
Telephonic transmitter	J. F. McLaughlin	335,294	Feb. 2	294	78	34	493
Telephonic transmitting apparatus	J. M. Guthrie	338,263	Mar. 23	1864	490	34	1286
Telephony	J. Houlehan	335,522	Feb. 2	604	157	34	548
Telephony and telegraphy. System of	C. Langdon-Davies	351,367	Oct. 26	1797	473	37	347
Temperature-alarm and thermostat. Electric	W. H. Stiegelmaier	351,134	Oct. 19	1480	388	37	283
Temperature of a substance passing through a line of piping. Method of and apparatus for regulating the	J. A. Snee	338,447	Mar. 23	2126	556	34	1331
Temperature. Process of reducing	E. E. Hendrick	336,234	Feb. 16	1662	433	34	748
Temperature. Reducing	E. E. Hendrick. (Reissue)	10,725	May 18	1855	491	35	868
Temperature regulation. System of	W. S. Johnson. (Reissue)	10,768	Sept. 28	2141	554 555	36	1471
Temperature regulation. System of	W. S. Johnson	352,874	Nov. 16	1582	427 428	37	770
Temperature-regulator	W. S. Johnson	352,057	Nov. 2	472	128	37	548
Tempering. Apparatus for	S. E. Mower	337,981	Mar. 16	1489	386 387	34	1206
Tempering-machine	J. F. Webster	335,551	Feb. 2	644	168 169	34	555
Tempering metal bands or strips. Method of	S. E. Mower and T. Fowler	337,978	Mar. 16	1486	385	34	1206
Tempering metal. Method of	S. E. Mower	337,979	Mar. 16	1487	385	34	1206
Tempering. Process of	S. E. Mower	337,980	Mar. 16	1488	386	34	1206
Tennis-court marker	J. H. Bullard	339,141	Apr. 6	30	9	35	8
Tennis nets. Pole for lawn-	C. H. Brathwaite and G. Lane	349,686	Sept. 28	1565	405	36	1363
Tennis-racket	F. W. Taylor	335,656	Feb. 9	796	212	34	590
Tenoning-machine	A. L. Cushman	350,872	Oct. 12	1093	291	37	206
Tension. Intermittently-acting	G. A. Fleharty	345,581	July 13	1119	286	36	207
Tension-wheel	J. R. Clair	338,484	Mar. 23	2177	569	34	1341
Tension-wheel	S. T. Williams	339,082	Mar. 30	3031	800	34	1495
Tent	J. E. Shaw	353,168	Nov. 23	2013	539	37	860
Tent and wagon. Combined	A. S. Tomkins	355,231	Dec. 28	2298	605 606	37	1457
Terret. Harness-	T. S. Alexander	350,712	Oct. 12	865	233	37	165
Terret. Harness-	G. F. Eberhard	335,116	Feb. 2	23	7	34	445
Terry-cloth	F. Leake	350,372	Oct. 5	360	104	37	73
Testicle supporter. Stallion-	S. Taylor	338,371	Mar. 23	2022	531	34	1313
Testing-machine	T. D. West	340,842	Apr. 27	2483	654	35	464
Tether	C. S. Cannon	340,554	Apr. 27	2086	538	35	395
Tether	H. G. Coleman	336,295	Feb. 16	1755	459	34	763
Tether	W. B. Farrar	354,404	Dec. 14	1096	294	37	1214
Tether	H. J. Hard	342,300	May 18	1832	485	35	863
Tether	J. H. Kirby	353,750	Dec. 7	135	37	37	1032
Tether	J. H. Taylor	350,277	Oct. 5	242	70	37	50
Tether	J. D. Wilson	340,649	Apr. 27	2227	584	35	418
Tether. Animal-	D. L. Aspinwall	349,625	Sept. 21	1485	384	36	1340
Tether-stake	S. B. Sherer	344,683	June 29	2698	700	35	1528
Textile fabrics. Machine for finishing	A. Vincent	344,334	June 22	2223	572 573	35	1432
Textile fabrics. Machine for producing ornamental surfaces on	A. Schmidt	334,477	Jan. 19	1399	377	34	273
Textile materials with liquids, gases, or vapors. Apparatus for treating	W. Mather	333,876	Jan. 5	517	141	34	96
Theatrical scenery	L. W. Seavey	349,526	Sept. 21	1358	353	36	1315
Thermometer	A. W. Paull	342,222	May 18	1705	454	35	842
Thermometer	J. D. Ward	336,181	Feb. 16	1571	413	34	733
Thermometer-case	C. A. Tatum	343,678	June 15	1323	330	35	1260
Thermometer. Circuit-closing	J. E. White	347,851	Aug. 24	1949	518	36	850
Thermometer for culinary purposes	W. Hempel	339,176	Apr. 6	79	24	35	17
Thermometer. Metallic	W. B. Fowle	333,738	Jan. 5	338	92	34	63
Thermometer. Metallic	G. B. St. John	355,281	Dec. 28	2365	621	37	1471
Thermometer or like instrument	J. T. Brayton	345,106	July 6	426	109 110	36	78
Thermometer. Recording-	C. S. Black and P. C. Pfister	354,965	Dec. 28	1909	504	37	1383
Thermostat	G. F. Bulen	352,442	Nov. 9	1012	273	37	655
Thermostat	J. A. Miller	340,890	Apr. 27	2547	671	35	474
Thermostat	S. B. Stone	351,719	Oct. 26	2337	608	37	447
Thermostat	G. Westinghouse, Jr., and F. Moore	353,186	Nov. 23	2043	546	37	866

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Thermostat. Electrical	R. L. Guion	354,131	Dec. 14	711	191	37	1143
Thermostat. Electrical	M. Loomis	338,090	Mar. 16	1628	424	34	1232
Thermostat for incubators	J. C. Losee	336,125	Feb. 16	1473	388 / 389	34	718
Thermostatic-circuit-controlling device	M. Martin	342,114	May 18	1577	424	35	817
Thill attachment. Vehicle	D. W. Dudderar	349,930	Sept. 28	1906	494	36	1427
Thill-breeching attachment	C. L. Tinsley and W. P. Rose	335,401	Feb. 2	439	113	34	519
Thill-coupling	J. O. Altick	350,611	Oct. 12	722	196	37	139
Thill-coupling	I. W. Archibald	334,838	Jan. 26	1883	501	34	370
Thill-coupling	P. J. Baumgartner	353,656	Dec. 7	5	2	37	1008
Thill-coupling	G. W. Blair	335,676	Feb. 9	823	219	34	595
Thill-coupling	A. Bratschie	353,478	Nov. 30	2457	656	37	951
Thill-coupling	D. B. Cahow	352,517	Nov. 16	1104	298	37	680
Thill-coupling	P. G. Dausch	338,493	Mar. 23	2187	572	34	1343
Thill-coupling	J. Desmarais	339,390	Apr. 6	397	96	35	74
Thill-coupling	A. French	337,761	Mar. 9	1174	306	34	1143
Thill-coupling	A. Z. Fryberger	347,291	Aug. 10	1128	302	36	669
Thill-coupling	L. German	341,744	May 11	1072	285	35	715
Thill-coupling	G. W. Greener	333,518	Jan. 5	32	9	34	8
Thill-coupling	M. E. Hamilton	347,238	Aug. 10	1051	281	36	666
Thill-coupling	W. H. Hannan	341,235	May 4	373	103	35	574
Thill-coupling	E. G. Harder	346,279	July 27	2105	542	36	403
Thill-coupling	L. D. Haskell, Jr	338,067	Mar. 16	1598	416	34	1236
Thill-coupling	J. G. Hess	352,919	Nov. 23	1648	443	37	792
Thill-coupling	P. J. Hindmarsh and W. H. Gwinn	348,014	Aug. 24	2186	582	36	892
Thill-coupling	H. J. Ies	338,970	Mar. 30	2857	754	34	1468
Thill-coupling	F. P. Johnson	346,659	Aug. 3	266	73	36	513
Thill-coupling	J. A. Kneedler	345,148	July 6	485	134	36	88
Thill-coupling	J. A. Kranz	352,469	Nov. 9	1047	282	37	662
Thill-coupling	H. Kugler	344,050	June 22	1832	470	35	1361
Thill-coupling	G. W. La Baw	335,289	Feb. 2	287	76	34	491
Thill-coupling	B. Ligget	340,333	Apr. 20	1775	453	35	330
Thill-coupling	L. Mason	354,160	Dec. 14	752	202	37	1150
Thill-coupling	A. McHugh	355,275	Dec. 28	2355	619	37	1469
Thill-coupling	F. McKinster	348,985	Sept. 14	611	161	36	1165
Thill-coupling	G. Morse	335,767	Feb. 9	963	255	34	619
Thill-coupling	A. P. Moses and L. Frechette	349,401	Sept. 21	1186	307	36	1281
Thill-coupling	F. P. Musser	342,304	May 18	1839	486	35	864
Thill-coupling	J. Mutchler	351,882	Nov. 2	320	62	37	499
Thill-coupling	H. D. Overton	333,969	Jan. 5	644	177	34	121
Thill-coupling	C. M. Piccard and L. H. Chappel	339,207	Apr. 6	132	35	35	26
Thill-coupling	G. M. Pickles	341,164	May 4	268	76	35	553
Thill-coupling	A. L. Romans and J. M. Peregrine	335,844	Feb. 9	1068	282	34	640
Thill-coupling	A. L. Romans and J. M. Peregrine	342,539	May 25	2195	581	35	936
Thill-coupling	A. Sampson, W. H. Wright, and F. L. Kinsman.	334,476	Jan. 19	1398	377	34	273
Thill-coupling	N. Schenkel	340,821	Apr. 27	2457	646	35	459
Thill-coupling	H. Schitler	346,503	Aug. 3	68	18	36	473
Thill-coupling	C. M. Slack and F. Crawford	344,549	June 29	2534	655	35	1495
Thill-coupling	S. G. Smith	337,710	Mar. 9	1115	288	34	1132
Thill-coupling	H. J. Springer	343,927	June 15	1650	423	35	1323
Thill-coupling	W. A. Stadelman	333,973	Jan. 5	652	178	34	123
Thill-coupling	J. G. Stair	336,825	Feb. 23	2472	649	34	902
Thill-coupling	L. B. Stuart	340,926	Apr. 27	2593	684	35	484
Thill-coupling	S. S. Taylor	341,231	May 11	763	205	35	655
Thill-coupling	W. P. Teed	335,398	Feb. 2	436	112	34	519
Thill-coupling	D. Thompson	339,713	Apr. 13	908	223	35	166
Thill-coupling	D. Thompson	347,842	Aug. 24	1938	514	36	848
Thill-coupling	W. P. Tracy	354,753	Dec. 21	1619	428	37	1315
Thill-coupling	G. Tyler	334,910	Jan. 26	1974	525	34	387
Thill-coupling	M. H. Underwood	337,895	Mar. 16	1359	353	34	1183
Thill-coupling	M. Wagner	337,463	Mar. 9	815	206	34	1079
Thill-coupling	R. W. Walker and J. L. Beardsley	334,494	Jan. 19	1422	383	34	277
Thill-coupling	J. H. Weaver	343,874	June 15	1587	404	35	1309
Thill-coupling	J. H. and E. B. Weaver	340,746	Apr. 27	2361	622	35	441
Thill-coupling	D. D. Whitney	349,964	Sept. 28	1960	506	36	1437
Thill-coupling	F. Wick	346,420	July 27	2305	594	36	440
Thill-coupling	J. B. Williams and J. P. Smith	351,083	Oct. 19	1412	371	37	270
Thill-coupling	R. H. Wilson	338,008	Mar. 16	1527	396	34	1213
Thill-coupling. Shifting	G. P. Askin	354,848	Dec. 21	1738	460	37	1339
Thill-coupling. Shifting	G. W. Fried and W. F. Weaber	339,636	Apr. 13	801	196	35	147
Thill-coupling spring	F. A. Baker	343,750	June 15	1439	339	35	1281
Thill-couplings. Anti-rattler for	G. W. Blair	334,242	Jan. 26	1887	502	34	371
Thill-couplings. Anti-rattler for	W. E. Murbarger	344,786	June 29	2841	735	35	1553
Thill-couplings. Anti-rattler for	J. C. Null	336,150	Feb. 16	1526	402	34	725
Thill-lug	G. F. Denio	348,453	Aug. 31	2814	756	36	1018
Thill-support	W. Hervey	342,440	May 25	2050	541	35	910
Thill support. Vehicle	E. W. Sweeny and I. Woner	341,820	May 11	1170	313	35	735
Thill-supporter	D. Thurlow	348,071	Aug. 24	2272	608	36	909
Thill-tip. Anti-friction	R. W. Simpson	349,817	Sept. 28	1769	457	36	1399
Thill. Vehicle	D. G. Zeigler and R. Copes	338,129	Mar. 16	1687	439	34	1244
Thimble	O. E. Weber	353,389	Nov. 30	2323	621	37	925
Thrasher. Pea	G. E. Luckey	336,012	Feb. 9	1302	346	34	680
Thrasher. Traveling	N. S. Wilson	334,833	Jan. 26	1876	499 / 500	34	369
Thrashers. Band-cutter and feeder for	W. Tennison	344,145	June 22	1968	503	35	1386
Thrashers. Band-cutting attachment for	S. Harrop	348,966	Sept. 14	583	154	36	1160
Thrashers. Combined band-cutter and grain-feeder for	C. Grover	345,230	July 6	591	150	36	107
Thrashers. Sheaf table and stand for	L. Wetmore	345,346	July 13	760	191	36	143
Thrashing and other machines. Feeder for	M. E. Perring	336,153	Feb. 16	1529	403	34	725
Thrashing and separating machine	F. Strobel	340,899	Apr. 27	2560	674	35	477
Thrashing-machine	R. Beardsley	339,841	Apr. 13	1079	268	35	198
Thrashing-machine	C. G. Case	350,290	Oct. 5	257	74, 75	37	53

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Thrashing-machine	J. Ellis	336,399	Feb. 16	1889	494, 495	34	790
Thrashing-machine	J. Ellis	336,400	Feb. 16	1893	495, 496	34	790
Thrashing-machine	F. Eves	340,498	Apr. 20	2002	514, 515	35	372
Thrashing-machine	T. E. Gilkeson	334,857	Jan. 26	1910	509	34	375
Thrashing-machine	I. D. Heebner	345,695	July 20	1288	334	36	245
Thrashing-machine	W. D. Heebner	339,174	Apr. 6	77	23	35	17
Thrashing-machine	J. B. McCutcheon	352,764	Nov. 16	1438	388	37	743
Thrashing-machine	G. W. Morris	354,803	Dec. 21	1682	444	37	1328
Thrashing-machine	G. L. Pittman	352,148	Nov. 9	627	166	37	582
Thrashing-machine	C. A. Smith	340,632	Apr. 27	2194	578	35	413
Thrashing-machine	C. Tostenson	351,670	Oct. 26	2275	589	37	435
Thrashing-machine	H. A. Wetsell	336,366	Feb. 16	1846	484	34	782
Thrashing-machine band-cutter and distributer	B. F. Applegate and B. F. Lagel	340,273	Apr. 20	1692	431	34	314
Thrashing-machine band-cutter and feeder	M. Doran	341,375	May 4	567	156, 157	35	607
Thrashing-machine band-cutter and feeder	J. P. and W. D. Fleming	343,021	June 1	334	86	35	1068
Thrashing-machine band-cutter and feeder	S. M. Graumlich	338,637	Mar. 23	2375	625	34	1375
Thrashing-machine band-cutter and feeder	W. H. Spence	334,725	Jan. 19	1740	464	34	336
Thrashing-machine band-cutter and feeder	J. W. Turner	347,280	Aug. 10	1107	296, 297	36	677
Thrashing-machine feed-regulator	A. W. Lockhart	334,024	Jan. 12	739	199	34	144
Thrashing-machine feeder	C. W. Benham	335,988	Feb. 9	1268	336	34	674
Thrashing-machine feeder	W. S. Reeder	349,606	Sept. 21	1463	376, 377	36	1335
Thrashing machine. Grain-	J. Hawk	335,753	Feb. 9	940	248	34	616
Thrashing-machine tooth	G. A. Roberts	335,387	Feb. 2	422	108	34	517
Thrashing-machines and separators. Brace for	J. Ritzman	338,784	Mar. 30	2605	689	34	1421
Thrashing-machines. Belt-coiler for	M. B. Heliker	346,042	July 20	1779	458	36	331
Thrashing-machines. Dust-protector for the attendants of	W. W. Barber. (Reissue)	10,724	May 18	1854	491	35	868
Thrashing-machines. Grain-cleaner for	J. E. Kimble	337,502	Mar. 9	861	218	34	1087
Thrashing-machines. Grain-spout for	W. Lincoln	339,560	Apr. 6	661	161	35	119
Thrashing-machines. Sacking attachment for	C. F. Prentiss, L. G. Stone, and H. Fisher.	336,665	Feb. 23	2267	591	34	863
Thrashing-machines. Separator-shoe for	C. B. Dow	345,285	July 13	678	171	36	128
Thrashing-machines. Winnower for	C. Roberts	339,582	Apr. 6	718	176	35	125
Thread-cabinet	W. F. Streich	344,792	June 29	2846	737	35	1555
Thread. Machine for polishing silk and other	C. B. Trescott	334,309	Jan. 12	1164	312	34	294
Thread, &c. Machine for twisting	J. J. and J. A. O'Connor	354,926	Dec. 28	1857	491	37	1373
Thread, &c. Machine for winding coverings upon	H. D. Clark	343,161	June 8	565	142	35	1118
Thread-winding machines, &c. Traverse mechanism for	W. Clark	340,862	Apr. 27	2508	660, 661	35	468
Threads of hanks or skeins. Mechanism for opening and separating	P. Durançon	334,113	Jan. 12	862	237	34	167
Three-throw switch	E. J. Remillon	352,426	Nov. 9	995	268	37	652
Three-way split switch	T. P. Whelan	351,417	Oct. 26	1904	495	37	365
Three-way switch	E. L. Giles	333,745	Jan. 5	347	94	34	65
Threshold	J. Johnston	340,510	Apr. 20	2020	518	35	375
Threshold and weather-strip. Combined	H. J. Beams	350,102	Oct. 5	11	3	37	5
Threshold. Movable	E. Schmidt	348,349	Aug. 31	2659	716	36	989
Thresholds. Device to be substituted for	C. M. Haven	342,829	June 1	77	19	35	1021
Ticket-case	W. E. Elam	344,091	June 22	1893	485	35	1373
Ticket-case	J. M. Harper	342,354	May 25	1927	509	35	889
Ticket-case	J. A. Reinfeld	355,207	Dec. 28	2256	595	37	1450
Ticket-case	W. J. Stevenson	335,095	Jan. 26	2233	592	34	433
Ticket. Coupon-	J. B. Porter	347,958	Aug. 24	2115	564	36	739
Ticket for messenger service. Check-	J. S. Goldsmith	337,762	Mar. 9	1175	306	34	1143
Ticket-holder	D. F. Crofut	349,924	Sept. 28	1898	492	36	1426
Ticket-holder	W. L. Peet	336,258	Feb. 16	1698	442	34	753
Ticket-holder. Commutation-	M. Rice	336,493	Feb. 16	2014	528	34	812
Ticket. Railway-	W. A. Thrall	342,941	June 1	241	61	35	1050
Ticket. Store-service	C. Baum	334,157	Jan. 12	934	257	34	180
Tickets. Machine for manipulating	C. L. Campbell	341,221	May 4	350	97, 98	35	569
Tickets or cards. Apparatus for the manufacture of blank	W. R. Bacon	345,474	July 13	941	237	36	175
Tie: *See* Bag-tie. Railway cross-tie. Bale-tie. Steel tie. Railway-tie. Umbrella-tie.							
Tie and rail holder and spike-puller. Combined	W. Palmer	333,539	Jan. 5	58	16	34	13
Tile	E. Aldrich	345,942	July 20	1639	422	36	307
Tile	A. Daniels	353,780	Dec. 7	174	48	37	1039
Tile and brick machine	D. B. Raymond	336,434	Feb. 16	1937	508	34	799
Tile and pottery kiln	E. M. Pike and J. B. Schopp	340,003	Apr. 13	1298	325	35	238
Tile as an article of manufacture. Roofing-	F. Hengesbach	340,668	Apr. 27	2248	591	35	421
Tile decoration	J. G. Low	336,242	Feb. 16	1677	436	34	750
Tile decoration	J. G. Low	336,243	Feb. 16	1677	437	34	750
Tile for facing walls, &c	H. Hall	347,425	Aug. 17	1320	352	36	734
Tile for lining walls, &c	J. C. Anderson	351,614	Oct. 26	2198	568	37	421
Tile. Garden-	L. S. Flatau	342,690	May 25	2404	638	35	975
Tile. Illummating-	J. Jacobs	339,424	Apr. 6	446	109	35	83
Tile. Illuminating-	J. Jacobs	339,425	Apr. 6	448	109	35	83
Tile-kiln	J. Gearhard	345,964	July 20	1656	431	36	312
Tile-kiln	L. F. and B. C. Wickers	335,665	Feb. 9	807	215	34	592
Tile-laying machine	J. McMullin	354,429	Dec. 14	1126	302	37	1220
Tile-lined structure	W. C. Sharpless	337,629	Mar. 9	1015	261	34	1116
Tile-machine	D. Brose and J. Baumgartner	354,093	Dec. 14	642	174, 175	37	1132
Tile-machine table	J. M. Powell	335,536	Feb. 2	620	162	34	551
Tile-machines. Cut-off table for	G. C. and J. H. Skinner	353,170	Nov. 23	2015	540	37	861
Tile-machines. Cutting-table for	J. S. Smith	352,632	Nov. 16	1263	340	37	708

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Tile-making machine	J. G. Low	336,240	Feb. 16	1674	435, 436	34	750
Tile-making machine. Drain-	R. J. Carson	352,448	Nov. 9	1020	275	37	657
Tile. Metallic roofing-	J. S. Thorn and C. Leffler	341,966	May 18	1361	364	35	778
Tile. Metallic roofing	J. S. Thorn and C. Leffler	341,967	May 18	1363	364	35	778
Tile-plate. Illuminating	W. A. Schreiber	340,370	Apr. 20	1833	470	35	341
Tile protector. Drain-	A. L. Shoults	344,141	June 22	1961	501	35	1384
Tile. Roofing-	E. Bennett	351,956	Nov. 2	327	91	37	519
Tile. Roofing-	C. Weise	345,400	July 13	834	209	36	155
Tile. Stamped roofing-	E Lamal and S. Duprat	349,227	Sept. 14	950	242, 243	36	1226
Tile with holes to serve as frames or supports	J. G. Low	336,244	Feb. 16	1678	437	34	750
Tiles. Making-	J. G. Low	336,241	Feb. 16	1676	436	34	750
Tiles. Manufacture of-	J. Bayer and E. Puchta	338,465	Mar. 23	2149	562	34	1336
Tiles. Manufacture of drain or irrigating	J. C. Anderson	351,615	Oct. 26	2199	568	37	421
Tiles or equivalent porous pottery materials. Coloring.	F. Hengesbach	340,669	Apr. 27	2249	592	35	421
Till-lock	J. C. F. W. Diestel	345,125	July 6	451	116, 117	36	82
Till-lock	C. B. Hopkins	335,456	Feb. 2	511	133, 134	34	533
Till. Money-	J. Roggy	337,994	Mar. 16	1511	391, 392	34	1210
Tilting and swivel chair. Combined	A. B. Stevens	355,280	Dec. 28	2363	621	37	1470
Tilting gate	S. S. Davis	333,504	Jan. 5	10	4	34	5
Tilting or rocking chair	M. D. and T. A. Connolly	354,042	Dec. 7	566	154	37	1109
Timber. Preserving	H. Aitken	352,216	Nov. 9	727	.....	37	599
Time-ball and apparatus	W. F. Gardner	334,167	Jan. 12	945	250	34	182
Time-ball. Electric	J. Böhling	348,949	Sept. 14	563	149	36	1156
Time-check	J. Millar	354,921	Dec. 28	1851	490	37	1372
Time controlling and correcting system	W. F. Gardner	335,186	Feb. 2	141	36, 37	34	466
Time-detector. Watchman's pneumatic	C. D. Bernsee	349,780	Sept. 28	1719	443, 444	36	1389
Time-indicating system. Electric	C. A. Hussey	350,430	Oct. 5	442	126, 127	37	87
Time-indicating system. Electric	C. A. Hussey	350,432	Oct. 5	449	127	37	87
Time-indicating system. Electric	C. A. Hussey	350,434	Oct. 5	454	128	37	88
Time-lock	A. O. Behel	335,174	Feb. 2	124	31, 32	34	463
Time-lock	C. H. Shaffer	333,682	Jan. 5	245	67, 68	34	48
Time-lock	G. P. Woodworth	348,087	Aug. 24	2292	614	36	912
Time-lock	E. J. Woolley	345,266	July 6	646	164	36	117
Time-lock	J. B. Young	346,010	July 20	1735	447, 448	36	324
Time-lock. Electro-magnetic	F. Sedgwick	347,069	Aug. 10	825	219, 220	36	625
Time-piece dial	M. V. B. Ethridge	347,337	Aug. 17	1200	321	36	703
Time-piece dial	A. O. Gott	334,525	Jan. 19	1463	393	34	285
Time-piece dial	R. Tragardh	344,423	June 29	2357	607	35	1464
Time-piece. Electrical	S. Thackara	351,222	Oct. 19	1597	419	37	305
Time-pieces. Auxiliary governing-spring for	M. Wheeler	336,460	Feb. 16	1975	518	34	805
Time-pieces. Compensation-balance for	G. E. Hunter	347,297	Aug. 10	1139	305	36	683
Time-pieces. Dial-train for	D. H. Church	339,377	Apr. 6	376	92	35	70
Time-pieces. Electric alarm for	F. Glasgow	352,407	Nov. 9	971	260	37	647
Time-pieces. Escapement-lever for	A. M. Lane	348,980	Sept. 14	606	160	36	1164
Time-pieces. Winding-indicator for	J. E. Ehrlich	340,867	Apr. 27	2220	663	35	470
Time-recorder. Electric	A. C. Friesecke	339,092	Mar. 30	3044	805	34	1498
Time-recorder. Watchman's	A. C. Howard	354,904	Dec. 28	1825	483	37	1367
Time-recorder. Watchman's electric	C. W. Holtzer	342,013	May 18	1423	380	35	788
Time register and alarm. Electric	C. W. Whited	338,323	Mar. 23	1949	513	34	1301
Tin from scrap or pieces of tin-plate or tinned iron by means of hydrochloric acid. Separating the	W. Hasenbach	344,575	June 29	2560	662	35	1501
Tin from waste tinned iron. Recovering	W. Beatson	352,603	Nov. 16	1220	331	37	701
Tin-plate sheets. Making	W. Garrett	339,285	Apr. 6	247	61	35	46
Tinner's furnace. Portable	G. O. Sanderson	339,934	Apr. 13	1200	299	35	220
Tinsmith's shearing device	W. J. Bayrer	344,074	June 22	1874	481, 482	35	1369
Tire	J. G. Hess	352,187	Nov. 9	691	184	37	593
Tire and driving-band. Elastic wheel-	H. Barrett and J. J. Varley	345,476	July 13	944	238	36	175
Tire coupling. Wagon-	H. J. Simon	343,736	June 15	1421	354	35	1277
Tire for traction-engines	E. Huber	354,702	Dec. 21	1542	408	37	1301
Tire for vehicle-wheels. Ice-	T. B. Williams	334,322	Jan. 12	1183	318	34	227
Tire for vehicle-wheels. Ice-	T. B. Williams	349,773	Sept. 28	1709	440	36	1387
Tire for wheels	J. W. Pierce and I. L. G. Rice	341,050	May 4	105	31	35	524
Tire-heater	S. J. Moore	342,219	May 18	1702	453	35	844
Tire-heating furnace	J. Harris, Jr.	350,131	Oct. 5	45	12	37	11
Tire-heating furnace	M. Hoyt	334,952	Jan. 26	2025	540	34	396
Tire-heating furnace	H. C. Pierce	350,389	Oct. 5	379	109	37	76
Tire-setter	G. Meyers	353,153	Nov. 23	1995	534	37	857
Tire-tightener	J. B. Cypert	341,408	May 4	613	168	35	646
Tire-tightener	C. D. Hammon	347,347	Aug. 17	1215	324	36	706
Tire-tightener	A. H. Perry	340,352	Apr. 20	1812	465	35	338
Tire-tightener	J. H. Pluck	333,535	Feb. 2	620	162	34	551
Tire-upsetter	W. M. Helms	337,265	Mar. 2	511	134	34	1021
Tire-upsetter	E. Patterson	341,937	May 18	1331	356	35	773
Tire-upsetter	N. D. Stanley	352,431	Nov. 9	999	270	37	653
Tire-upsetting machine	J. R. Little	334,255	Jan. 12	1096	293, 294	34	211
Tire. Wheel-	J. W. Pierce and I. L. G. Rice	340,612	Apr. 27	2167	569, 570	35	408
Tire. Wheel-	J. W. Pierce, J. H. Bowditch, and I. L. G. Rice.	340,613	Apr. 27	2168	570	35	408
Tires. Apparatus for heating	G. Meyers	342,530	May 25	2182	578	35	933
Tires into bars or billets. Apparatus for converting steel	C. B. Beach	335,879	Feb. 9	1121	296, 297	34	649
Tires. Setting-	H. and J. S. Rohrer	345,322	July 13	727	184	36	137

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Tires. Utilizing old wheel	C. B. Beach	335,878	Feb. 9	1118	295, 296	34	648
Toaster	W. Miles	338,097	Mar. 16	1649	428	34	1236
Toaster	C. W. Stambaugh	347,306	Aug. 10	1155	309	36	685
Toaster and broiler	G. S. White	353,339	Nov. 30	2251	602	37	911
Toaster. Bread-	C. Matthews	354,562	Dec. 21	1329	352	37	1262
Tobacco-bag fastener	F. E. Heinig	353,748	Dec. 7	134	37	37	1031
Tobacco-booking machine	W. Jones	339,662	Apr. 13	832	204, 205	35	153
Tobacco box and cutter. Combined	D. M. De Silva	335,435	Feb. 2	485	126	34	529
Tobacco. Box or show-case for plug-	J. W. Fashing	352,614	Nov. 16	1235	333	37	704
Tobacco-casing machine	A. U. Drayer and V. C. Hatfield	333,933	Jan. 5	598	163	34	112
Tobacco, cigars, &c. Cabinet for	C. N. Swift	335,097	Jan. 26	2235	593	34	434
Tobacco-curing barn	W. B. Farrar and J. J. Thornton	342,591	May 25	2264	600, 601	35	949
Tobacco-cutter	E. E. Grove	350,485	Oct. 12	544	151	37	108
Tobacco-cutter	J. G. Perry and T. W. Wright	347,824	Aug. 24	1915	509	36	843
Tobacco-cutter	J. Riber	350,559	Oct. 12	642	177	37	124
Tobacco-cutting machine	G. Le Clair	348,402	Aug. 31	2738	735	36	1004
Tobacco-cutting machine	C. A. Sturtevant	334,820	Jan. 26	1861	496	34	367
Tobacco-drier	A. F. Forbis	337,677	Mar. 9	1071	276	34	1125
Tobacco-drier	G. M. Gallbraith	333,511	Jan. 5	23	7	34	7
Tobacco-drier	F. Stiles	351,409	Oct. 26	1895	494	37	363
Tobacco-drier	E. Walton	340,468	Apr. 20	1958	503	35	364
Tobacco-drier	R. Wilson	333,985	Jan. 5	669	183	34	125
Tobacco-elevator	A. R. Cotton	342,070	May 18	1517	405	35	806
Tobacco in bags. Machine for packing	H. R. Corkhill	341,457	May 11	683	184	35	639
Tobacco. Machine for manufacturing plug-	J. L. Collupp	348,617	Sept. 7	118	33	36	1069
Tobacco. Machine for stripping and booking	J. de la Mar	346,028	July 20	1761	453	36	328
Tobacco. Machine for treating leaf-	R. E. Ellis	339,089	Mar. 30	3040	803	34	1497
Tobacco machine. Plug-	T. Puetz, Jr	336,526	Feb. 16	2059	541	34	820
Tobacco machine. Plug-	T. Puetz, Jr	336,527	Feb. 16	2061	541, 542	34	820
Tobacco-package	R. A. Evans and A. Turner	336,801	Feb. 23	2438	641	34	895
Tobacco-pipe	G. W. Conover	348,189	Aug. 31	2448	658	36	947
Tobacco-pipe	W. L. Palmer	334,462	Jan. 19	1380	372	34	270
Tobacco-pipe cleaner	J. F. Forth	347,169	Aug. 10	962	257	36	650
Tobacco-pipe stem	W. B. Kennedy	335,705	Feb. 9	869	229	34	602
Tobacco-pipe support	J. H. Morris	335,612	Feb. 9	738	196	34	589
Tobacco-pipes. Chin-rest for	T. S. Brady	353,197	Nov. 23	2058	549	37	869
Tobacco-plant setter	J. B. Mitchum	334,029	Jan. 12	737	201	34	145
Tobacco-pouch	W. W. Walker	347,669	Aug. 17	1694	451	36	794
Tobacco-press	P. M. Guerrant	352,052	Nov. 2	464	126	37	547
Tobacco-press. Portable	H. W. Kimball	337,410	Mar. 9	716	186	34	1064
Tobacco. Sheet-	H. M. White	347,906	Aug. 24	2032	537	36	864
Tobacco-spud	J. B. Hyzer	343,318	June 8	794	198	35	1159
Tobacco-stems. Machine for flattening	F. Lauhoff	333,867	Jan. 5	507	138, 139	34	94
Tobacco-stick holder	F. B. Davis	347,579	Aug. 17	1546	411	36	767
Tobacco stripping and booking machine	O. Hammerstein	347,794	Aug. 24	1863	496, 497	36	833
Tobacco stripping and booking machine	O. Hammerstein	347,796	Aug. 24	1868	498, 499	36	834
Tobacco stripping and booking machine	G. Rowden	353,971	Dec. 7	468	127, 128	37	1092
Tobacco-stripping machines. Clutch for	O. Hammerstein	347,795	Aug. 24	1866	498	36	833
Tobacco-transplanter	M. Smith	335,724	Feb. 9	899	237	34	608
Tobacco. Treating	G. Robinson	345,076	July 6	387	.....	36	71
Tobacco. Treating	G. Storm	337,456	Mar. 9	802	204	34	1077
Tobacco. Treating	G. Storm	337,457	Mar. 9	805	204	34	1077
Toboggan	S. Ainsworth	339,512	Apr. 6	577	138	35	106
Toboggan	J. F. Babcock	334,925	Jan. 26	1992	531	34	391
Toboggan	J. P. Burkhard	349,269	Sept. 14	1001	255	36	1236
Toboggan	B. W. Clapp and S. Ainsworth	349,481	Sept. 21	1297	337	36	1302
Toboggan	J. F. Ferguson	350,123	Oct. 5	35	10	37	9
Toboggan	C. Gentesse	348,962	Sept. 14	577	153	36	1159
Toboggan	J. W. Johnson	353,309	Nov. 30	2211	592	37	904
Toboggan	J. C. Leslie	350,066	Sept. 28	2103	544	36	1464
Toboggan	J. McCormick	342,215	May 18	1693	451	35	840
Toboggan	J. R. McLaren, Jr	336,882	Feb. 23	2559	675	34	918
Toboggan	J. Paton	351,790	Nov. 2	87	24	37	474
Toboggan	L. M. and W. H. Proctor	340,731	Apr. 27	2341	617	35	437
Toboggan	W. H. Proctor and S. H. Miller	339,690	Apr. 13	882	217	35	162
Toboggan	H. F. Stearns	354,947	Dec. 28	1890	498	37	1379
Toboggans. Metallic shoe for	C. H. Emerson	353,547	Nov. 30	2565	684	37	971
Toe-calk bar	J. D. Hall	342,007	May 18	1415	377	35	786
Toe-calks. Roll for forming	J. W. Foulks	335,910	Feb. 9	1172	311	34	657
Toe-weight	G. E. Twambley	338,680	Mar. 23	2438	643	34	1385
Toe-weight	R. G. Wilcox	342,665	May 25	2364	625	35	968
Toilet-glass	J. Bay	349,333	Sept. 21	1070	275	36	1259
Toilet-stand	H. C. Lowrie	354,917	Dec. 28	1846	488, 489	37	1371
Toilet-table. Infant's	H. Crocker	349,875	Sept. 28	1844	476	36	1415
Tongs	W. H. Evans	342,827	June 1	76	19	35	1020
Tongs. Crucible-	J. B. Green	341,473	May 11	704	189	35	643
Tongs. Crucible-	W. M. Towner	346,136	July 27	1900	491	36	364
Tongs. Culinary	A. J. Holmes	345,846	July 20	1508	391	36	283
Tongs. Curling-	W. and W. H. Lonsdale	351,331	Oct. 19	1740	457	37	330
Tongs. Die for making blanks for pipe-	H. F. Smith and S. Fawcett	343,155	June 1	553	139, 140	35	1107
Tongs. Fire-	J. E. Bishop	337,733	Mar. 9	1142	296	34	1137
Tongs. Grape-	A. L. Edwards	342,341	May 25	1905	503	35	885
Tongs or plate-lifter. Dish-	R. W. Teese	353,331	Nov. 30	2240	600	37	909
Tongs. Pipe-	J. J. Palmer	334,276	Jan. 12	1125	301	34	217

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Tongs. Roofing	T. B. Beeson	343,422	June 8	963	240	35	1189
Tongue and shovel. Cultivator	J. M. Sanders	355,104	Dec. 28	2109	554	37	1490
Tongue-support	G. B. Hayes	348,466	Aug. 31	2-31	761	36	1021
Tongue-support	W. L. Landon	352,197	Nov. 9	704	188	37	595
Tongue-support	G. A. Marvin	341,854	May 11	1215	325	35	743
Tongue-support	C. McCoy	345,521	July 13	1007	255	36	187
Tongue-support	O. B. Pickett	348,569	Sept. 7	65	19	36	1059
Tongue-support	M. M. Russell	334,289	Jan. 12	1139	305	34	220
Tongue-support	T. B. Seibert	339,335	Apr. 6	319	80	35	60
Tongue-support	A. D. Tyler	336,605	Feb. 23	2169	567	34	845
Tongue-support	F. G. Wimek and J. W. Brown	353,906	Dec. 7	370	98	37	1074
Tongue-support for vehicles	J. H. Cassidy and B. H. Oldfield	336,382	Feb. 16	1864	488	34	785
Tongue-support for vehicles	Z. M. Ham	348,122	Aug. 24	2335	627	36	920
Tongue-support for vehicles	I. Schlegel	335,313	Feb. 2	319	83	34	498
Tongue support. Wagon	L. E. Hastings	349,714	Sept. 28	1623	419	36	1371
Tongue support. Wagon	M. E. Johnson	344,910	July 6	163	41	36	30
Tongue support. Wagon	E. McCoy	350,937	Oct. 19	1175	312	37	228
Tongue. Wagon	G. W. Avery	353,048	Nov. 23	1846	498	37	826
Tongue. Wagon	R. H. Branch	341,791	May 11	1130	298	35	726
Tongue. Wagon	J. L. Hall	342,828	June 1	77	19	35	1021
Tonic	I. D. Davis	351,829	Nov. 2	136	.....	37	484
Tool. Bar-center	F. A. Humphrey	346,371	July 27	2231	572	36	427
Tool-box	G. E. Richards	350,016	Sept. 28	2034	525	36	1450
Tool. Combination	E. D. Beales	345,826	July 20	1476	381	36	277
Tool. Combination	J. H. Donaldson	353,023	Nov. 23	1796	482	37	818
Tool. Combination	J. D. Galloway	354,313	Dec. 14	983	260	37	1192
Tool. Combination	O. D. Harmon	334,862	Jan. 26	1916	510	34	376
Tool. Combination	I. J. Mandeville	348,565	Sept. 7	44	13	36	1056
Tool. Combination	J. A. Stone	343,884	June 1	156	39	35	1034
Tool. Combination garden	J. W. Power	351,712	Oct. 26	2324	605	37	445
Tool. Combination pocket	O. P. Elterich	343,534	June 8	1113	281	35	1216
Tool. Combined	J. N. Girard	345,630	July 13	1188	305	36	220
Tool. Compound	J. Conley	333,830	Jan. 5	460	125	34	85
Tool. Facing	A. H. Donnally	353,485	Nov. 30	2465	659	37	952
Tool. Hand	G. Hayes	345,687	July 20	1379	332	36	243
Tool. Hand	J. F. Krayer	341,664	May 11	967	256	35	603
Tool-handle	J. Chantrell	337,242	Mar. 2	480	126	34	1014
Tool-handle	J. Chantrell	343,224	June 8	652	162	35	1134
Tool-handle	J. Donoghue	355,150	Dec. 28	2171	572	37	1432
Tool-handle	A. Gilliam	338,264	Mar. 23	1866	490	34	1286
Tool-handle	N. C. Perry	346,219	July 27	2020	521	36	388
Tool-handle	L. Steinberger	344,552	June 29	2538	656	35	1496
Tool-handle	G. H. Wabler	337,464	Mar. 9	816	206	34	1079
Tool-handle	D. and D. C. Wheeler	348,145	Aug. 24	2365	634	36	926
Tool-holder	G. A. Colton	340,098	Apr. 20	1430	361	35	267
Tool-holder	J. Crabtree	349,923	Sept. 28	1698	493	36	1426
Tool-holder	E. F. Noyes	334,042	Jan. 12	757	208	34	149
Tool-holder	J. Walker	336,362	Feb. 16	1841	482	34	781
Tool-holder	E. Waters	338,322	Mar. 23	1948	512	34	1300
Tool-holder	F. W. Weiss	338,652	Mar. 23	2397	631	34	1378
Tool-holder for grinding	G. A. Long	348,497	Aug. 31	2876	774	36	1029
Tool. Outlining	R. A. MacKenzie	353,077	Nov. 23	1878	507	37	833
Tool-receptacle	E. G. Lamson	353,419	Nov. 30	2371	632	37	934
Tool. Scraping	J. Wright	350,856	Oct. 12	1072	286	37	202
Tool-tang	J. Chantrell	343,225	June 8	654	163	35	1134
Tools. Apparatus for use in grinding and sharpening	C. S. Thomason	352,789	Nov. 16	1469	396, 397, 398	37	749
Tools. Device for cooling machine	P. Van den Kerchove	354,498	Dec. 14	1227	328	37	1237
Tooth. Artificial	C. E. Blake, Sr.	355,126	Dec. 28	2139	563	37	1426
Tooth. Artificial	W. S. Curtis	350,871	Oct. 12	1092	291	37	206
Tooth. Artificial	C. P. Grout	336,230	Feb. 16	1651	431	34	747
Tooth. Artificial	C. P. Grout	354,833	Dec. 31	1732	456	37	1336
Tooth. Artificial	J. J. R. Patrick	346,312	July 27	2154	554	36	412
Tooth. Artificial	H. C. Register	333,782	Jan. 5	392	107	34	74
Tooth. Artificial	L. T. Sheffield	352,785	Nov. 16	1464	394	37	748
Tooth. Artificial	L. T. Sheffield	354,356	Dec. 14	1042	278	37	1204
Tooth. Artificial	L. T. Sheffield	354,357	Dec. 14	1043	279	37	1204
Tooth. Artificial	J. W. White	339,958	Apr. 13	1229	306	35	226
Tooth-crown. Artificial	C. P. Grout	347,933	Aug. 24	2071	550	36	871
Tooth-crown. Artificial	C. M. Richmond	346,316	July 27	2161	555	36	414
Tooth-crown. Artificial	C. M. Richmond	351,071	Oct. 19	1393	366	37	267
Tooth-crown. Artificial	M. Rynear	342,761	May 25	2513	671	35	996
Tooth-crown. Artificial	E. T. Starr	342,271	May 18	1780	473	35	855
Tooth-crown. Artificial	E. T. Starr	347,975	Aug. 24	2137	569	36	883
Tooth-crowns. Applying artificial	C. P. Grout	336,231	Feb. 16	1653	431	34	747
Tooth-separator	H. A. Parr	350,150	Oct. 5	76	22	37	17
Top	F. L. Johnson	346,921	Aug. 10	607	163	36	585
Top. Musical	R. Richardson	335,863	Feb. 9	1067	282	34	639
Top. Musical	R. Richardson	347,199	Aug. 10	1000	267	36	657
Top rolls. Saddle for	N. H. Cheney and J. F. Boylen	333,600	Jan. 5	137	37	34	28
Top. Spinning	J. S. Gold	346,037	July 20	1774	456	36	330
Top. Spinning	J. S. Gold	347,032	Aug. 10	761	202	36	613
Torch	H. Wellington	343,682	June 15	1333	333	35	1262
Torpedo-adjuster	J. H. Bevington	340,275	Apr. 20	1675	432	35	315
Torpedo-boat	C. S. Lee	333,762	Jan. 5	366	99	34	69
Torpedo-boat. Submarine	C. D. Goubet	352,124	Nov. 9	588	156, 157	37	576
Torpedo-boats. Gas-heating chamber for	G. E. Haight and W. H. Wood	349,711	Sept. 28	1620	417	36	1371
Torpedo railway-signal	J. Deuel	343,304	June 8	774	194	35	1156
Torpedo railway-signal	T. G. Palmer	334,133	Jan. 12	888	243	34	173
Torpedo railway-signals. Attachment for	J. Deuel	345,774	July 20	1409	365	36	266
Torpedo service. Marine	C. S. Aylesworth	353,728	Dec. 7	110	30	37	1026
Torpedo-signal. Railway	J. A. Bonnell	341,399	May 4	603	165	35	614

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Torpedoes by electricity. Method of firing	E. L. Zalinski	341,537	May 11	792	211	35	660
Torpedoes. Pellet for	C. Pilgrim	340,678	Apr. 27	2261	595	35	423
Torpedoes to railway-rails. Instrument for attaching	A. B. Shaw	338,307	Mar. 23	1923	506	34	1296
Towel-holder	C. H. Delanoy, Jr.	336,704	Feb. 23	2316	606	34	873
Towel-rack	W. L. McKelvey	337,604	Mar. 9	984	252	34	1110
Towel-rack. Folding	C. G. Udell	349,769	Sept. 28	1702	439	36	1386
Towel-roller	C. G. Udell	349,770	Sept. 28	1703	439	36	1386
Tower	J. S. Adams	335,102	Feb. 2	3	1	34	441
Towing and securing hawsers or lines of vessels. Apparatus for	H. Winter	336,829	Feb. 23	2477	651	34	903
Towing vessels	H. Winter	336,830	Feb. 23	2478	652	34	903
Toy	J. H. Burns	341,831	May 11	1185	317	35	737
Toy	M. E. Converse	348,952	Sept. 14	566	150	36	1157
Toy	J. Fallows	352,401	Nov. 9	963	258	37	646
Toy	C. A. Hotchkiss	339,101	Mar. 30	3063	810	34	1501
Toy	C. B. Moreton	334,885	Jan. 26	1940	516	34	381
Toy	W. D. C. Pattyson	350,766	Oct. 12	935	252	37	178
Toy	C. F. Ritchel	335,538	Feb. 2	622	163	34	551
Toy air-gun	P. D. Horton	347,344	Aug. 10	1057	283	36	667
Toy. Alphabetical	W. F. Hopkins	346,656	Aug. 3	260	72	36	511
Toy and cigar-cutter. Combined	J. Prentice	333,669	Jan. 5	224	61	34	44
Toy balloon	L. Biehl	344,515	June 29	2487	640	35	1486
Toy banks. Time-lock for	E. J. Colby	351,359	Oct. 26	1787	470	37	345
Toy bird	D. F. Shaw	334,813	Jan. 26	1853	493	34	365
Toy breech-loading gun	R. W. and A. G. Walker	344,698	June 29	2716	706	35	1531
Toy building-block	T. H. Grigg	349,646	Sept. 21	1506	390	36	1345
Toy for children. Mechanical	P. J. Owens	340,728	Apr. 27	2336	616	35	437
Toy gun	J. G. Newbury	348,860	Sept. 7	430	115	36	1127
Toy house. Collapsible	J. P. Buckingham	347,682	Aug. 17	1709	456	36	796
Toy. Humming	S. P. Robinson	337,871	Mar. 16	1326	344	34	1177
Toy kitchen	M. Schaare	344,992	July 6	282	71	36	51
Toy. Mechanical	W. Croswell	346,092	July 27	1840	475	36	353
Toy. Mechanical	J. Fallows	346,586	Aug. 3	170	46	36	492
Toy money-box	J. H. Bowen	337,125	Mar. 2	325	85	34	986
Toy motor	C. F. Ritchel	352,068	Nov. 2	489	132	37	551
Toy. Musical	N. B. Baldwin	350,521	Oct. 12	591	164	37	114
Toy. Musical	G. J. Holbrook	337,497	Mar. 9	852	216	34	1086
Toy or game	L. Brandt	342,677	May 25	2384	631	35	971
Toy pistol	A. B. Austin	342,893	June 1	166	42	35	1036
Toy pistol	G. A. Badger and W. F. Lakin	335,104	Feb. 2	5	2	34	441
Toy pistol	L. J. Ingersoll	333,635	Jan. 5	180	49	34	36
Toy-propeller	E. Teichmann	354,269	Dec. 14	921	243	37	1180
Toy race-course	J. T. Marean	339,443	Apr. 6	471	114	35	87
Toy railway	L. Ruëlius	351,799	Nov. 2	96	27	37	476
Toy savings-bank	C. G. Shepard and P. Adams	352,786	Nov. 16	1465	395	37	748
Toy theater	J. W. Sherman	334,622	Jan. 19	1600	426	34	310
Toy trumpet	W. Jüngermann	350,493	Oct. 12	556	154	37	109
Toy vehicle	J. H. Bogner	340,655	Apr. 27	2233	585, 586	35	419
Toy vehicle	W. D. Harden and J. P. White	341,329	May 4	505	139	35	597
Toy. Wind-wheel	F. G. Gollon	340,872	Apr. 27	2525	665	35	471
Trace and rein carrier for harness	T. A. Spears	350,166	Oct. 5	97	28	37	20
Trace and whiffletree guard	E. E. Stephenson and L. A. Lasher	347,876	Aug. 24	2020	535	36	861
Trace-carrier	D. R. Cotner	354,967	Dec. 28	1912	504	37	1384
Trace-carrier	C. L. Gross	345,301	July 13	700	176	36	132
Trace-carrier	W. R. Johns	337,957	Mar. 16	1453	376	34	1200
Trace-carrier	S. and W. E. Swengel	338,679	Mar. 23	2438	642	34	1385
Trace-chain carrier	G. Elbel	348,196	Aug. 31	2457	660	36	949
Trace-eye	E. C. Bilger	352,031	Nov. 2	437	119	37	541
Trace-fastener	J. P. Smith	345,330	July 13	736	186	36	139
Trace-fastening	W. E. Barber	347,149	Aug. 10	934	249	36	645
Trace-fastening	R. F. Rice	342,265	May 18	1767	469	35	853
Trace-hook	C. Dudley	349,632	Sept. 21	1491	386	36	1342
Trace-supporter	T. Meyer	343,828	June 15	1527	385	35	1298
Tracing-cabinet	H. P. Richards	354,347	Dec. 14	1031	275	37	1202
Tracing-wheel	E. C. Gefoert	351,027	Oct. 19	1339	351	37	257
Track-bolt	C. C. Wrenshall	355,112	Dec. 28	2117	557	37	1421
Track-clearer	L. J. Bergendahl	342,566	May 25	2227	591	35	942
Track-clearer	G. F. Chapman	347,926	Aug. 10	752	200	36	611
Track-clearer	F. B. Smith	336,445	Feb. 16	1954	512	34	801
Track-drill frame	A. A. Strom	337,455	Mar. 9	802	204	34	1077
Track gage and level	J. L. Barnett	353,655	Dec. 7	4	1	37	1007
Track-instrument	C. D. Tisdale	341,291	May 4	459	124	35	588
Track-laying apparatus	D. E. Johnson	347,808	Aug. 24	1883	502, 503	36	837
Track-laying apparatus	D. E. Johnson	354,146	Dec. 14	729	196, 197	37	1146
Track-laying machine	A. L. McFarland	333,770	Jan. 5	375	102	34	70
Track-lifter	J. W. McDonald	340,723	Apr. 27	2327	612, 613	35	435
Track-raiser	G. W. Robbarts	336,161	Feb. 16	1538	405, 406	34	727
Tracks. Apparatus for sanding car	W. T. Butler and G. H. Hathaway	350,865	Oct. 12	1066	290	37	205
Traction and other engines	F. F. Landis	337,840	Mar. 16	1288	334	34	1170
Traction-engine	B. J. Arnold	335,497	Feb. 2	567	148	34	542
Traction-engine	B. S. Benson	334,333	Jan. 12	1196	321, 322, 323	34	230
Traction-engine	G. T. Glover	342,596	May 25	2270	602	35	950
Traction-engine	S. E. Jarvis	336,412	Feb. 16	1908	500	34	794
Traction-engine	V. Kveh	351,112	Oct. 19	1451	389	37	277
Traction-engine	M. Lafever	339,104	Apr. 6	107	30	35	23
Traction-engine	F. F. Landis	337,841	Mar. 16	1290	334	34	1171

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Traction-engine	J. Leigh	343,910	June 15	1632	416, 417	35	1319
Traction-engine	J. Mosiman	333,658	Jan. 5	210	57	34	41
Traction-engine	J. Q. A. Newsom	353,155	Nov. 23	1997	534, 535	37	857
Traction-engine	E. Penney	334,978	Jan. 26	2062	550	34	402
Traction-engine	C. H. Sawyer	336,440	Feb. 16	1945	510	34	800
Traction-engine	O. Stevens	343,969	June 15	1713	438	35	1334
Traction-engine	L. C. Taber	334,623	Jan. 19	1601	426, 427	34	310
Traction-engine	L. C. Taber	341,702	May 11	1023	270, 271	35	706
Traction-engine boiler	W. B. Kurtz	349,889	Sept. 28	1862	480	36	1419
Traction-engines. Compensating-gear for	A. B. L. Lamb	340,220	Apr. 20	1613	408	35	301
Traction-engines. Pinion-wheel for	E. Samuel	352,357	Nov. 9	910	244	37	634
Traction-engines. Steering apparatus for	J. V. Stribling	348,538	Aug. 31	2937	789	36	1041
Traction-wheel	J. Elder	335,904	Feb. 9	1164	310	34	656
Traction-wheel	O. W. Kelly and L. F. Dieter	336,649	Feb. 23	2238	583	34	856
Traction-wheel	O. W. Kelly and L. F. Dieter	336,650	Feb. 23	2239	584	34	857
Traction-wheel	O. W. Kelly and L. F. Dieter	342,606	May 25	2288	605, 606	35	953
Traction-wheel	M. Lavering and E. H. Anspaugh	344,386	June 29	2307	594	35	1454
Traction-wheel	W. A. Loud	346,410	July 27	2291	588	36	438
Traction-wheel	R. R. Moore	352,483	Nov. 9	1062	286	37	665
Traction-wheel	H. C. Reagan	339,012	Mar. 30	2935	777	34	1480
Traction-wheel	H. M. Sheer and F. Dillemuth	348,786	Sept. 7	336	90	36	1110
Traction-wheel	C. W. Waring	345,342	July 13	754	190	36	142
Traction-wheels. Lug for	B. A. Kennedy and J. F. Steward	342,912	June 1	191	49	35	1040
Train-signal	C. F. Newton	333,774	Jan. 5	380	104	34	72
Train-signal	J. H. Parsons	352,567	Nov. 16	1170	315, 316	37	692
Train-signal system	E. S. Graver	351,759	Nov. 2	42	11, 12	37	467
Train-signaling apparatus	J. P. A., J. F., and G. O. Hanlon	337,200	Mar. 2	504	131	34	1019
Tramway	A. G. Bierbach	339,257	Apr. 6	207	52	35	39
Tramway for curves and cable-grips	A. S. Hallidie. (Reissue)	10,681	Feb. 2	648	170	34	557
Tramway system. Electric	M. H. Smith	348,792	Sept. 7	341	91, 92	36	1111
Tramways. Portable switch for	G. F. Loebe	350,687	Oct. 12	837	225	37	159
Transferring designs to surfaces from perforated patterns. Compound for	L. Whitefield	351,949	Nov. 2	320	.....	37	517
Transmitter and sounder	G. W. Stewart	350,644	Oct. 12	775	212	37	148
Transom-lifter	R. Adams	354,296	Dec. 14	960	254	37	1187
Transom-lifter	C. E. Hitchings	340,716	Apr. 27	2316	610	35	432
Transom-lifter	A. Langstrom	339,435	Apr. 6	461	111	35	85
Transom-lifter	C. F. Leopold	345,238	July 6	605	153	36	109
Transom-lifter	T. Mayhew	348,226	Aug. 31	2504	673	36	957
Transom-lifter	W. W. Neuer	355,200	Dec. 28	2244	592	37	1447
Transom-lifter	J. M. Overell	335,086	Jan. 26	2220	589	34	430
Transom-lifter	G. R. Taxis	343,931	June 15	1656	425	35	1324
Transom-lifter	J. F. Wollensak	336,975	Mar. 2	122	33	34	948
Transom-lifter	J. F. Wollensak	349,621	Sept. 21	1479	382	36	1339
Transom-pivot	F. C. Robinson	335,310	Feb. 2	316	83	34	498
Transom-support	C. E. Steller	340,015	Apr. 13	1314	328	35	241
Transom-ventilator	J. P. Tierney	343,781	June 15	1474	369	35	1287
Transoms, skylights, &c. Device for operating	R. Adams	351,147	Oct. 19	1497	392	37	287
Transparency	W. Read, Jr.	346,864	Aug. 3	515	141	36	560
Transplanter	G. F. Carsley	344,814	July 6	15	4	36	5
Transplanter	J. W. Harris	340,211	Apr. 20	1599	404, 405	35	298
Transplanter. Tobacco-	M. Smith	345,184	July 6	529	135, 136	36	96
Transporting goods, &c., by electricity. Mechanism for	F. Jenkin	343,319	June 8	795	199, 200, 201, 202	35	1159
Trap:							
See Animal-trap.							
Ant-trap.							
Bear-trap.							
Bee-trap.							
Fish-trap.							
Fly-trap.							
Gas and stench trap.							
Gopher-trap.							
Grease-trap.							
Impalement-trap.							
Insect-trap.							
Jaw-trap.							
Mole-trap.							
Mole and gopher trap.							
Mouse-trap.							
Overflow-trap.							
Plumber's trap.							
Rat-trap.							
Seal-trap.							
Sewer-trap.							
Sewer-gas trap.							
Sink-trap.							
Steam-trap.							
Stench-trap.							
Target-trap.							
Waste-pipe trap.							
Trap for baths, basins, &c	E. S. McClellan	334,129	Jan. 12	881	241	34	171
Trash-drill	R. A. Summers	346,234	July 27	2041	526	36	392
Traveling-bag	B. J. Riley	336,529	Feb. 16	2064	542	34	821
Traveling-bag clip	W. Roemer	334,195	Jan. 12	1002	266	34	194
Traveling bag or satchel	G. Wahler	344,696	June 29	2714	705	35	1531
Traveling-bags. Fastener for	S. Scheuer	343,609	June 15	1230	309	35	1244
Traveling-bags, pocket-books, &c. Fastener for	S. Scheuer	340,252	Apr. 20	1665	422	35	309
Traveling-bags, satchels, &c. Fastening for	G. W. McGill	351,644	Oct. 26	2242	581	37	428
Traveling-bags. Sheet-metal handle for	R. C. Jenkinson	342,360	May 25	1939	512	35	891
Tray. Shipping-	P. T. Cramer	347,324	Aug. 17	1185	317	36	700
Tread, step, mat, matting, &c.	J. Whiteley	344,703	June 29	2722	707, 708	35	1533
Tread, step, or mat	J. Whiteley	344,704	June 29	2723	708	35	1533
Treadle attachment	J. L. Randolph	346,562	Aug. 3	141	39	36	488
Treadles. Foot-pad for machine-	L. McKeogh	345,248	July 6	621	157	36	112
Treasure-box	E. N. Hayes and V. A. Sauer	345,302	July 13	701	177	36	132

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Tree:							
See Boot-tree. Harness-pad tree. Boot or shoe tree. Saddle-tree. Double-tree.							
Tree and plant cover. Fruit	J. W. Crow	343,533	June 8	1112	280	35	1216
Tree and plant setting machine	W. and F. G. Zimmerman	342,490	May 25	2119	559, 560, 561	35	923
Tree and post supporter	M. Wrightsman	350,281	Oct. 5	247	72	37	51
Tree-box	A. R. Reese	334,807	Jan. 26	1848	492	34	364
Tree-cover	J. Stahl	349,066	Sept. 14	728	186	36	1184
Tree-feller and pile-cutter	W. G. Rendall	337,018	Mar. 2	187	50	34	959
Tree-guard	G. S. Cole	349,086	Sept. 14	756	193	36	1189
Tree-protector	D. L. Byler	334,743	Jan. 26	1766	470	34	348
Tree-protector	F. E. Kohler	338,158	Mar. 16	1725	450	34	1251
Trellis	J. B. Wilson	341,088	May 4	154	46	35	533
Trellis for garden-crops	W. A. White	334,918	Jan. 26	1984	529	34	389
Trellis-hook	J. Judd	334,706	Jan. 19	1715	457	34	331
Trestle	E. J. Hooper	341,847	May 11	1207	324	35	741
Trestle	J. T. Miller	343,829	June 15	1598	385	35	1298
Trestle	O. D. Whitcomb	342,153	May 18	1620	434	35	826
Trestle and scaffold	J. K. Petty	350,153	Oct. 5	79	23	37	17
Tricycle	H. Baines	334,839	Jan. 26	1884	502	34	371
Tricycle	M. M. and W. B. Depuy	349,145	Sept. 14	837	213	36	1205
Tricycle	C. E. Duryea	339,537	Apr. 6	625	152	35	113
Tricycle	W. L. Fay	343,165	June 8	569	144	35	1119
Tricycle	J. B. Funk	336,226	Feb. 16	1644	429, 430	34	745
Tricycle	J. Henry	351,768	Nov. 2	56	15	37	469
Tricycle	W. J. Lloyd and W. Priest	346,208	July 27	2007	517	36	384
Tricycle	W. J. Lloyd and W. Priest	353,793	Dec. 7	195	53	37	1042
Tricycle	A. Mercer	354,337	Dec. 14	1017	270	37	1199
Tricycle	T. O'Brien	347,503	Aug. 17	1437	381, 382	36	745
Tricycle	H. A. Robinson	340,617	Apr. 27	2176	573	35	410
Tricycle	W. N. Smith	351,942	Nov. 2	311	87	37	515
Tricycle	F. White	336,968	Mar. 2	110	30, 31	34	946
Tricycle-brake	H. J. Curtis	348,891	Sept. 7	479	127	36	1135
Tricycle-brake	E. P. How	344,530	June 29	2507	646	35	1490
Tricycle-clutch	J. M. Marlin	333,531	Jan. 5	47	13, 14	34	11
Tricycle-clutch	J. M. Marlin	348,680	Sept. 7	206	54, 55	36	1084
Tricycle-clutch	D. H. Rice	336,588	Feb. 23	2148	563	34	842
Tricycle-clutch	D. H. Rice	348,691	Sept. 7	220	58	36	1087
Tricycle loop-frame	C. F. Hadley	335,811	Feb. 9	1025	271	34	631
Tricycle. Railway	W. Hayes	354,318	Dec. 14	967	262	37	1193
Tricycle-seat	J. C. Zimmerman	352,076	Nov. 2	500	135	37	553
Tricycles. Steering device for	E. P. Howe	344,531	June 29	2509	646	35	1490
Trimmer:							
See Edge-trimmer. Lawn-edge trimmer. Fabric-trimmer. Paper-trimmer.							
Trimming	C. Seel	350,774	Oct. 12	947	254	37	180
Trimming-frame	T. B. Ollis	343,191	June 8	607	151	35	1126
Trimming the edges of hollow articles. Machine for	E. S. Higgins	338,969	Mar. 30	2853	753, 754	34	1467
Tripod	H. P. Curtis	340,195	Apr. 20	1575	398	35	293
Tripod. Extension	H. Esser	347,927	Aug. 24	2066	548	36	870
Tripod-standard	J. D. Richardson	335,774	Feb. 9	976	258	34	622
Triturating-cylinder	J. R. Alsing	353,279	Nov. 30	2169	581	37	897
Triturator	A. Babendreier	336,618	Feb. 23	2193	572, 573	34	849
Triturator	L. Sherman	343,075	June 1	424	108, 109	35	1024
Trolling-spoon	J. B. McHarg	341,261	May 4	406	112	35	579
Trolling spoon-bait	G. M. Skinner	341,954	May 18	1350	361	35	776
Trough:							
See Eaves-trough. Poultry feed-trough. Feed-trough. Watering-trough.							
Trousers clamp and hanger	R. Crommer	352,046	Nov. 2	458	124	37	545
Trouser-hangers	J. C. MacDonald	351,058	Oct. 19	1379	362	37	275
Trousers or overalls	W. Cohlman	352,297	Nov. 9	832	224	37	619
Trousers. Shield for the knees of	B. T. Olcott	341,599	May 11	873	233	35	676
Trousers-stretcher	D. B. Falk	348,835	Sept. 7	394	107	36	1121
Trousers-stretcher	F. McIlvenna and J. G. Rollason	337,071	Mar. 2	248	66	34	972
Truck	C. G. Conn	343,890	June 15	1607	409	35	1314
Truck	P. V. McBride	347,186	Aug. 10	983	262, 263	36	654
Truck	B. B. Merrill and J. A. Wing	355,192	Dec. 28	2233	589	37	1445
Truck	R. J. Saxton	349,367	Sept. 21	1138	293	36	1271
Truck	R. J. Saxton	349,368	Sept. 21	1138	293	36	1272
Truck	D. S. Wing	355,238	Dec. 28	2307	608	37	1459
Truck and bag-holder. Combined	A. S. Fisk	341,741	May 11	1069	284	35	715
Truck and step ladder. Combined	J. Hill	345,973	July 20	1679	434	36	314
Truck and turn-table. Transfer	E. Samuel	335,483	Feb. 2	551	144, 145	34	539
Truck. Barrel	J. M. Bennett	336,620	Feb. 23	2199	574	34	850
Truck. Barrel	F. W. Roberts	337,870	Mar. 16	1325	344	34	1177
Truck. Barrel	G. W. Rose	349,665	Sept. 21	1530	395	36	1349
Truck. Barrel	E. S. Stone	346,958	Aug. 10	657	175	36	594
Truck. Barrel	W. P. Williams	345,467	July 13	934	235	36	173
Truck brass. Locomotive-engine	H. A. Barnes	354,527	Dec. 21	1378	341	37	1253
Truck. Car	W. S. G. Baker	354,964	Dec. 28	1908	503	37	1383
Truck. Car	F. A. Bartholomew	336,983	Mar. 2	133	36	34	950
Truck. Car	T. Carter	353,286	Nov. 30	2177	583	37	899
Truck. Car	E. L. Cleveland	354,594	Dec. 21	1382	366	37	1271

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Truck. Car	D. W. Eames	350,923	Oct. 19	1160	308	37	225
Truck. Car	A. W. Getchell	333,623	Jan. 5	164	44	34	33
Truck. Car	A. W. Getchell	352,535	Nov. 16	1125	304	37	684
Truck. Car	J. Goettel	348,459	Aug. 31	2821	758	36	1019
Truck. Car	M. G. Hubbard	348,741	Sept. 7	280	75	36	1100
Truck. Car	C. W. Hunt	347,936	Aug. 24	2077	552	36	873
Truck. Car	S. D. King	348,221	Aug. 31	2497	672	36	956
Truck. Car	W. B. Mack	340,336	Apr. 20	1778	454 / 455	35	331
Truck. Car	H. C. McCarty	339,913	Apr. 13	1171	291	35	215
Truck. Car	W. H. H. Sisum	338,368	Mar. 23	2015	530	34	1311
Truck. Car	E. A. Stanley	346,785	Aug. 3	412	114	36	540
Truck for elevated railways. Car	F. A. Bartholomew	342,673	May 25	2380	629	35	970
Truck for moving houses	J., Sr., F. A., and J. F. Goodman	348,005	Aug. 24	2174	578	36	890
Truck for moving houses	J. T. Shultz	351,806	Nov. 2	109	31	37	478
Truck. Hand	B. F. Bergh	334,505	Jan. 19	1438	386	34	280
Truck. Hand	J. Caldwell	342,950	June 1	2[illegible]2	64	35	1052
Truck. Hand	J. Graves and J. R. Dreyfus	335,810	Feb. 9	1024	271	34	631
Truck. Hand	J. D. Hill	343,635	June 15	1264	318	35	1250
Truck. Hand	A. Kell	350,001	Sept. 28	2012	520	36	1446
Truck. Hand	F. A. Odin	340,955	Apr. 27	2631	693	35	490
Truck. Hand	C. W. Smith	342,978	June 1	283	74	35	1058
Truck. Hand	D. E. Teal	351,346	Oct. 19	1761	463	37	334
Truck. Hand	C. Walter	345,090	July 6	405	102	36	74
Truck. Logging	T. Carter	341,877	May 18	1251	335	35	757
Truck-platform	T. Wright	351,145	Oct. 19	1495	391	37	286
Truck. Railway-car	H. Baines	352,028	Nov. 2	432	117 / 118	37	531
Truck. Stove	J. Thaxter	342,816	June 1	54	14	35	1016
Truck. Traveling suspension	H. J. McArdle	337,179	Mar. 2	402	104	34	1000
Truck. Warehouse	J. H. Kistler and J. E. Buck	344,661	June 29	2672	693 / 694	35	1524
Truck-wheel	G. F. Armstrong	344,471	June 29	2416	622	35	1474
Trucks. Method of and appliance for relieving	E. Schuchardt	350,323	Oct. 5	297	85	37	60
Trucks. Tower-pipe attachment for hook-and-ladder	J. R. Day	339,272	Apr. 6	225	56	35	42
Trunk	M. J. Cole	348,188	Aug. 31	2447	657	36	947
Trunk	G. Crouch	339,621	Apr. 13	773	191	35	142
Trunk	J. D. Crouch	339,622	Apr. 13	774	191	35	143
Trunk	S. Hermann	337,328	Mar. 2	662	158	34	1037
Trunk	F. Soevyn	348,245	Aug. 31	2530	680	36	962
Trunk	L. Straw	343,971	June 15	1716	439	35	1334
Trunk-brace. Inside	J. M. March	337,413	Mar. 9	723	187	34	1065
Trunk-catch	T. A. Dennis	342,502	May 25	2147	568	35	927
Trunk-clamp	H. Rice	341,604	May 11	878	234	35	677
Trunk-fastening	G. L. Bailey	346,575	Aug. 3	159	43	36	490
Trunk-lid stay	G. Crouch	354,596	Dec. 21	1386	367	37	1272
Trunk-lock	F. W. Mix	337,187	Mar. 2	410	107	34	1001
Trunk-lock hasp	W. H. Plant	340,679	Apr. 27	2262	596	35	423
Trunk or box fastener	F. W. Mix	352,627	Nov. 16	1257	339	37	708
Trunk. Sectional	R. T. M. Hunley	350,883	Oct. 12	1107	295	37	399
Trunk-strap	G. J. Carney	343,222	June 8	651	162	35	1133
Trunk-strap	F. M. Masse	336,580	Feb. 23	2134	559	34	839
Trunk-top	B. T. Smith, J. C. Steinmetz, and C. J. Petry.	339,227	Apr. 6	156	42	35	30
Trunk. Wardrobe	Z. D. Hinkley	352,824	Nov. 16	1514	408	37	756
Trunk. Wardrobe	O. H. Meurer and G. N. Klein	353,876	Dec. 7	319	83	37	1065
Trunks. Mechanism for hinging and locking lids of	E. H. Vollrath and J. Hogan	342,404	May 25	1999	528	35	901
Trunks, &c. Spring-catch for	G. Crouch	354,597	Dec. 21	1387	367	37	1272
Truss	B. Bannister	354,034	Dec. 7	559	151	37	1108
Truss	J. T. Bartlett	345,405	July 13	842	210	36	157
Truss	G. W. Bell	340,085	Apr. 20	1414	358	35	264
Truss	W. Candel	343,945	June 15	1672	429	35	1327
Truss	A. Giralt	347,171	Aug. 10	964	257	36	651
Truss	J. G. Henderson	349,498	Sept. 21	1321	343	36	1307
Truss	J. R. Jones	343,816	June 15	1515	382	35	1295
Truss	G. Miller	334,968	Jan. 26	2048	546	34	400
Truss	C. H. Nicolls	343,388	June 8	921	230	35	1181
Truss	J. F. Noone	343,485	June 8	1059	264	35	1206
Truss	T. G. Owen	345,170	July 6	511	131	36	93
Truss	H. Scheuerle	340,822	Apr. 27	2459	646	35	460
Truss	A. Schröder	339,333	Apr. 6	377	79	35	60
Truss	E. Van Note	340,067	Apr. 13	1384	348	35	253
Truss	E. Williams, Jr., and R. M. Lashell	340,750	Apr. 27	2365	623	35	442
Truss	T. M. Wilson	344,468	June 29	2412	621	35	1473
Truss. Abdominal	C. Zimmer	337,290	Mar. 2	551	145	34	1028
Truss and abdominal support. Combined	J. A. Tigner	346,244	July 27	2063	529	36	396
Truss-pad	B. Bannister	354,035	Dec. 7	560	152	37	1108
Truss-pad	A. D. Smith	341,176	May 4	287	82	35	557
Truss-pad. Electric	A. T. Sherwood	335,639	Feb. 9	776	205	34	586
Tub: *See* Bath-tub. Foot-tub. Bathing-tub.							
Tub-fastener	S. E. Moore	351,278	Oct. 19	1669	438	37	318
Tub or box cover fastener	A. B. Thomas	344,691	June 29	2709	704	35	1530
Tub or tank for toilet, laundry, and refrigerating purposes.	J. B. French	348,321	Aug. 31	2627	708	36	982
Tubs. Adjustable leg for wash-	F. G. Eddington	348,195	Aug. 31	2456	660	36	949
Tube: *See* Boiler-tube. Pneumatic tube. Boiler water-tube. Speaking-tube. Dental mouth-tube. Syringe-tube. Lamp-wick tube. Water-tube. Mailing-tube. Wick-tube. Paper tube.							
Tube clamp. Flexible	C. A. Tatum	350,850	Oct. 12	1065	285	37	201

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Tube-cleaner	G. A. Rowell	348,141	Aug. 24	2359	633	36	925
Tube-cutter	D. L. Baughman	334,928	Jan. 26	1995	531	34	391
Tube-cutter	N. Bond	342,570	May 25	2231	592	35	943
Tube-cutter	C. E. Huntley	343,957	June 15	1695	434	35	1331
Tube-cutter	J. C. Mineo	340,344	Apr. 20	1795	460	35	334
Tube-cutter	E. H. and G. E. Nuebling	341,046	May 4	100	30	35	523
Tube-expander	P. Fitzgibbons	343,620	June 1	333	85	35	1068
Tube-expander	J. Hartley	342,356	May 25	1932	510	35	889
Tube-expander	W. I. B. McHale	338,423	Mar. 23	2091	548	34	1325
Tube-expander	W. I. B. McHale	338,424	Mar. 23	2092	548	34	1326
Tube-expander	W. I. B. McHale	338,425	Mar. 23	2093	548	34	1326
Tube-expander	G. A. Rowell	343,730	June 15	1414	353	35	1276
Tube-expander	W. Schoendelen, W. Klein, and A. Schoendelen.	350,701	Oct. 12	850	229	37	162
Tube-expander	C. Wicksteed	346,251	July 27	2071	532	36	397
Tube expander and cutter	W. I. B. McHale	353,425	Nov. 30	2380	634, 635	37	936
Tube-punching machine	C. P. Higgins	337,330	Mar. 2	604	158	34	1098
Tube-welding device	J. N. Buchanan	354,626	Dec. 21	1436	381	37	1280
Tubes. Coupling for connecting a series of	H. Bushnell	355,137	Dec. 28	2157	567	37	1429
Tubes. Expanding joint for	J. Hemphill	337,580	Mar. 9	957	245, 246	34	1105
Tubes. Forming serpentine	N. W. Pratt	337,282	Mar. 2	540	141, 142	34	1026
Tubes, &c. Joint or coupling for	W. Green	341,904	May 18	1290	344	35	764
Tubes. Machine for butt-welding	J. Crea	354,102	Dec. 14	660	178	37	1135
Tubes. Machine for forming and punching polygonal	C. P. Higgins	336,852	Feb. 23	2506	660	34	908
Tubes. Machine for forming and punching polygonal	C. P. Higgins	336,853	Feb. 23	2507	661	34	909
Tubes. Machine for forming serpentine	C. P. Higgins	336,854	Feb. 23	2508	661	34	909
Tubes. Machine for making	E. K. Coas	344,350	June 29	2253	578, 579	35	1444
Tubes. Machine for sizing, straightening, and finishing	J. K. Davis	336,899	Mar. 2	25	7	34	931
Tubes. Manufacture of	J. Hoffman	343,584	June 15	1198	301	35	1238
Tubes. Manufacture of	W. Kent	341,019	May 4	62	17	35	517
Tubes. Manufacture of bent metal	A. Taplin	351,479	Oct. 26	1998	519	37	383
Tubes. Manufacture of longitudinally-folded	R. Parker	352,656	Nov. 16	1299	350	37	715
Tubes. Manufacture of seamless	W. C. Stiff and H. B. S. Bennett	340,526	Apr. 20	2042	525	35	379
Tubes. Method of and apparatus for treating	E. Peckham	342,130	May 18	1595	426	35	821
Tubes. Roller for forming tapered	E. Wiesner	352,172	Nov. 9	674	180	37	589
Tubes. Uniting	O. Mussinan, Jr	350,075	Sept. 28	2113	547	36	1465
Tubing. Apparatus for corrugating metal	H. Hollerith and S. G. Metcalf	349,718	Sept. 28	1627	420	36	1372
Tubing. Apparatus for welding	P. Patterson	341,162	May 4	262	75, 76	35	553
Tubing. Machine for making metal	D. A. Ritchie	349,748	Sept. 28	1673	432	36	1381
Tubular or hollow structures. Re-enforcing	E. Hill	339,885	Apr. 13	1137	283	35	209
Tubular spring. Braided-wire	J. L. Wells	339,954	Apr. 13	1225	304	35	225
Tuck-marker	J. P. Lavigne	343,464	June 8	1032	257	35	1201
Tug	D. Hawn	337,263	Mar. 2	509	133	34	1020
Tug attachment. Hame-	W. S. Sherman	335,486	Feb. 2	553	145	34	540
Tug-fastener Spring	L. H. Nusbaum	337,347	Mar. 2	621	163	34	1041
Tug for harness. Shaft-	W. H. Noyes	337,982	Mar. 16	1491	387	34	1206
Tug guard. Shaft-	J. W. Theobald	341,075	May 4	139	41	35	531
Tug. Hame-	J. T. Condon	337,248	Mar. 2	492	128	34	1016
Tug. Hame-	T. A. McGranahan	352,626	Nov. 16	1256	339	37	707
Tug. Hame-	J. G. Miller	348,987	Sept. 14	613	161	36	1165
Tug-holder	E. A. Brown	345,410	July 13	851	212	36	158
Tug-link. Spring	J. H. Lauth	347,812	Aug 24	1892	505	36	839
Tug. Shaft-	J. Adams and J. G. Lewis	344,431	June 29	2366	609	35	1466
Tug. Shaft-	J. Fischer	345,038	July 6	343	86	36	62
Tug. Shaft-	G. M. Sicklesteel	341,063	May 4	123	37	35	527
Tug. Shaft-	H. F. Walter	347,670	Aug. 17	1695	451	36	794
Tug. Spring-draft	J. M. Rohrer	343,068	June 1	413	105	35	1081
Tug. Thill-	F. Benoit	340,654	Apr. 27	2231	585	35	419
Tug. Trace-	E. G. J. Troxell	343,615	June 15	1242	312	35	1246
Tugs or traces. Attachment for	L. Werle	353,185	Nov. 23	2041	545	37	866
Tumbler-washer	J. D. O'Donnell	349,052	Sept. 14	710	181	36	1181
Tuning-gage for stringed instruments	A. M. D. Home	341,846	May 11	1206	323	35	741
Tuning-hammer	L. Steetz	342,051	May 18	1479	396	35	799
Tunnel. Submarine	C. H. Buckelew	349,301	Sept. 21	1035	265	36	1252
Tunnels. Construction of	C. C. Gilman	345,040	July 6	350	88	36	64
Tunneling and excavating. Preparing soil for	C. Sooysmith	340,162	Apr. 20	1517	384	35	284
Tunneling apparatus	C. Sooysmith	340,161	Apr. 20	1515	383	35	283
Tunneling-machine	F. O. Brown	340,759	Apr. 27	2378	627	35	444
Tunnels. Segment for constructing	H. H. Hall	341,002	May 4	41	11	35	513
Turbine	J. McConnell	349,510	Sept. 21	1336	347	36	1310
Turn-buckle. Self-adjusting	I. O. Phillips	346,771	Aug. 3	394	109	36	338
Turn-buckles. Blank for	C. H. Williams	338,813	Mar. 30	2642	696	34	1428
Turn-table	G. T. Parry	338,357	Mar. 23	1996	526	34	1308
Turn-table guide	A. V. du Pont	345,288	July 13	682	172	36	129
Turn-tables. Center-bearing for	E. Samuel	349,956	Sept. 28	1950	504	36	1435
Turning irregular forms. Machine for	V. H. Ernst	349,343	Sept. 21	1082	278	36	1261
Turning-machine	A. Stoner	341,182	May 4	293	83	35	558
Turning ornamental forms and figures in wood. Apparatus for	C. P. Seymour	342,394	May 25	1984	524	35	898
Turning rolls. Apparatus for	J. McIntosh	349,806	Sept. 28	1752	452	36	1396
Turning terret-rings. Machine for	W. S. Bishop	341,876	May 18	1250	335	35	757
Turning wooden bowls. Machine for	P. B. Skinner	341,513	May 11	748	202	35	652
Turning wooden spirals. Machine for	V. Merklen	339,314	Apr. 6	285	71, 72	35	54
Turnstile	J. H. Greenleaf	349,156	Sept. 14	850	217	36	1207
Turret-lock	F. H. Richards	353,821	Dec. 7	239	65	37	1050
Tuyere	W. G. Miller	338,543	Mar. 23	2247	590	34	1353
Tuyere	J. Stoll	337,886	Mar. 16	1347	349	34	1181
Twine and wire cutter	W. L. Haas	334,582	Jan. 19	1542	413	34	299
Twine-balling machine	R. A. Kelly	347,116	Aug. 10	883	234	36	635
Twine-cutter	S. Fogleson and J. B. Mouser	347,234	Aug. 10	1045	279	36	665

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Twine holder and cutter. Combined	M. H. O'Brien	342,532	May 25	2184	578	35	933
Twine-unwinder. Automatic	M. G. Hubbard	347,804	Aug. 24	1878	501	36	836
Twist-drill and auger-bit	H. W. Libbey	354,155	Dec. 14	748	201	37	1149
Twist-drills. Machine for clearing	S. G. Ryder	350,214	Oct. 5	169	49, 50	37	35
Twist-drills. Machine for clearing	G. R. Stetson	333,689	Jan. 5	255	69, 70	34	49
Twist-drills. Machine for grinding	S. G. Ryder	344,329	June 22	2218	571	35	1431
Twist-drills. Machine for making	S. Moore	354,069	Dec. 7	605	166	37	1117
Twist-drills. Machine for rolling	G. R. Stetson	344,754	June 29	2795	723, 724	35	1544
Twist-drills. Manufacture of	F. E. Whitney	341,084	May 4	147	44	35	532
Twisters, &c. Stop-motion for	C. F. Alexander	342,990	June 1	294	76	35	1060
Twisting-machines. Stop-motion mechanism for	E. F. Shaw	351,659	Oct. 26	2262	585	37	433
Twisting twines and cords. Machine for	J. W. Bowersox	352,804	Nov. 16	1494	403	37	752
Tympan	G. H. Squier	340,464	Apr. 20	1952	501, 502	35	363
Type	J. R. Cummings	337,744	Mar. 9	1154	300	34	1140
Type and overlay. Perforating	J. Mayerhoff	339,798	Apr. 13	1022	252, 253	35	187
Type and space holder. Compositor's	L. K. Johnson and A. A. Low	336,719	Feb. 23	2330	610, 611, 612	34	875
Type. Apparatus for setting	C. G. Fischer	348,836	Sept. 7	395	107	36	1121
Type-bars and matrices therefor. Machine for producing	O. Mergenthaler	345,525	July 13	1012	257, 258, 259	36	188
Type-bars. Machine for producing	O. Mergenthaler	345,526	July 13	1021	259, 260, 261, 262, 263	36	189
Type-bars. Machine for producing	O. Mergenthaler	347,629	Aug. 17	1627	432, 433, 434	36	782
Type-case and galley support	W. H. Golding	352,817	Nov. 16	1508	406	37	755
Type-case. Compositor's	L. K. Johnson	336,646	Feb. 23	2234	582	34	856
Type-case. Compositor's	L. K. Johnson	336,647	Feb. 23	2236	583	34	856
Type-case for stereotype-matrix-making machines	F. Schreiner	336,753	Feb. 23	2376	622	34	884
Type case. Wood	J. O. Stewart	335,850	Feb. 9	1077	284	34	641
Type-casting mold	C. Hochstadt, P. Wenzel, and H. Heinebach.	352,869	Nov. 16	1575	425	37	768
Type-distributing apparatus	L. K. Johnson and A. A. Low	336,645	Feb. 23	2231	582	34	855
Type-distributing apparatus	L. K. Johnson and A. A. Low	337,406	Mar. 9	707	184, 185	34	1063
Type-distributing apparatus	L. K. Johnson and A. A. Low	337,407	Mar. 9	712	185	34	1063
Type-distributing apparatus	L. K. Johnson and A. A. Low	340,124	Apr. 20	1459	369, 370	35	273
Type-distributing apparatus	L. K. Johnson and A. A. Low	354,149	Dec. 14	737	198, 199	37	1148
Type-distributing machine	H. C. Leland	342,916	June 1	197	50, 51, 52	35	1041
Type-distributing machine	J. L. McMillan	347,627	Aug. 17	1620	430, 431	36	781
Type fixer. Gem	A. E. Shearer	333,684	Jan. 5	251	.....	34	49
Type-galley	W. F. Bellrood	336,377	Feb. 16	1859	487	34	784
Type holder and separator	L. K. Johnson and A. A. Low	340,125	Apr. 20	1463	370	35	273
Type in chases. Device for tightening forms of	J. J. Barnsdall and E. C. Bell	346,457	Aug. 3	9	3	36	462
Type-matrix and mechanism for distributing the same	O. Mergenthaler	347,630	Aug. 17	1639	435	36	784
Type-matrices. Machine for producing	O. Mergenthaler	344,974	July 9	243	61, 62	36	44
Type or die for forming impressions in metal surfaces	T. D. Worrall	339,609	Apr. 6	751	185	35	132
Type. Printing	T. Bigelow	351,355	Oct. 26	1778	468	37	344
Type-setting machine	J. L. McMillan	347,626	Aug. 17	1612	427, 428, 429, 430	36	779
Type-smoothing machine	F. Russell	342,386	May 25	1974	521	35	896
Type-writer for stenographic purposes	J. C. Zachos	334,630	Jan. 19	1609	429	34	311
Type-writers. Copy-holder for	W. H. Clarkson	336,551	Feb. 23	2096	551, 552	34	833
Type-writers. Escapement for	G. W. Baldrige and G. H. Lasar	344,933	July 6	190	49	36	35
Type-writers. Machine for easing the levers of	V. H. Ernst	335,118	Feb. 2	26	8	34	445
Type-writing and manifolding. Reproducing-surface for	J. T. and F. W. Underwood	348,073	Aug. 24	2273	.....	36	909
Type-writing and matrix-making machine	T. D. Worrall	339,724	Apr. 13	928	227, 228	35	169
Type-writing and other machines. Paper-holding attachment for	C. Haven	355,264	Dec. 28	2341	616	37	1466
Type-writing. Composition for transfer-surfaces for producing copies of	J. T. and F. W. Underwood	348,072	Aug. 24	2273	.....	36	909
Type-writing machine	G. W. Baldrige	339,129	Apr. 6	13	4, 5	35	5
Type-writing machine	M. M. Bartholomew	335,736	Feb. 9	918	242	34	612
Type-writing machine	J. Becker	350,717	Oct. 12	873	234	37	166
Type-writing machine	E. W. Brackelsberg	335,887	Feb. 9	1140	302, 303, 304	34	652
Type-writing machine	C. J. Buchheit and T. L. Popp	348,511	Aug. 31	2896	779	36	1033
Type-writing machine	F. N. Cookson	344,627	June 29	2632	681, 682	35	1516
Type-writing machine	J. F. Dawson	334,693	Jan. 19	1697	473	34	327
Type-writing machine	E. Fitch	345,836	July 20	1491	386, 387	36	280
Type-writing machine	E. Howard	346,104	July 27	1854	479	36	356
Type-writing machine	W. K. Jenne	349,349	Sept. 21	1094	280	36	1264
Type-writing machine	G. W. Johnston	340,881	Apr. 27	2537	668	35	473
Type-writing machine	G. W. Johnston	340,882	Apr. 27	2538	668	35	473

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Type-writing machine	D. E. Kempster	342,302	May 18	1834	485, 486	35	863
Type-writing machine	V. F. Lake	344,839	July 6	59	14, 15	36	12
Type-writing machine	E. E. Peacock	354,213	Dec. 14	831	220, 221	37	1166
Type-writing machine	J. W. Peck	353,965	Dec. 7	457	124	37	1090
Type-writing machine	W. J. Perkins	347,373	Aug. 17	1254	333	36	712
Type-writing machine	W. H. Slocum	335,972	Feb. 9	1247	331, 332	34	670
Type-writing machine	C. Spiro	335,392	Feb. 2	427	110, 111	34	518
Type-writing machine	C. Spiro	339,078	Mar. 30	3022	799	34	1494
Type-writing machine	C. Spiro	344,143	June 22	1963	502	35	1385
Type-writing machine	C. Spiro	352,160	Nov. 9	647	170, 171, 172	37	585
Type-writing machine	H. J. Thomas	346,000	July 20	1719	443, 444	36	321
Type-writing machine	H. G. Wood	334,920	Jan. 26	1986	529	34	390
Type-writing machine	T. D. Worrall	334,503	Jan. 19	1435	386	34	279
Type-writing machine	T. D. Worrall	335,669	Feb. 9	812	216, 217	34	593
Type-writing machine	T. D. Worrall	335,670	Feb. 9	815	217, 218	34	593
Type-writing machine	T. D. Worrall	336,278	Feb. 16	1720	449, 450	34	758
Type-writing machine	G. W. N. Yost	336,614	Feb. 23	2188	571	34	848
Type-writing machine	G. W. N. Yost	341,089	May 4	155	46, 47	35	533
Type-writing machine	G. W. N. Yost	343,655	June 15	1289	324	35	1254
Type-writing machine feed-guide	A. C. Thomas	335,488	Feb. 2	556	146	34	540
Type-writing machines. Copy-holder for	W. H. Clarkson and R. M. Fryer	353,622	Nov. 30	2673	716, 717	37	991
Type-writing machines. Copy-holder for	A. S. Pattison	342,707	May 25	2434	646, 647	35	981
Type-writing machines. Feed-guide for	A. C. Thomas	339,497	Apr. 6	551	133	35	102
Type-writing machines. Inking apparatus for	L. S. Crandall	342,244	May 18	1736	461	35	847
Type-writing machines. Inking-ribbon for	G. K. Anderson	349,026	Sept. 14	671	173	36	1174
Type-writing machines. Key-board for	G. W. Baldrige	345,565	July 13	1099	280	36	203
Type-writing machines. Leaf-holding attachment for	T. A. Curtis	353,625	Nov. 30	2678	718	37	991
Type-writing machines. Line-spacing device for	T. Whaley	345,347	July 13	761	191	36	143
Type-writing machines. Locking device for key-boards of	G. H. Lasar	336,725	Feb. 23	2343	614	34	878
Type-writing machines. Ribbon-inking attachment for	L. Bailey	341,630	May 11	919	243	35	685
Type-writing machines. Spacing-escapement for	W. A. Hall	342,352	May 25	1924	508	35	888
Type-writing machines. Type-plate for	T. Hall	336,481	Feb. 16	2003	525	34	810
Type-writing machines. Variable-spacing mechanism for	J. F. Steward	344,213	June 22	2062	528	35	1403
Type-writing machines. Word-counter for	T. I. Daniel	342,337	May 25	1894	501, 502	35	884
Type-writing. Producing copies in imitation of	G. W. Weaver	353,338	Nov. 30	2249	602	37	911
Umbrella	M. Apfelbaum	350,030	Sept. 28	2049	529	36	1453
Umbrella	J. I. Barnhurst	349,476	Sept. 21	1290	335	36	1301
Umbrella	C. H. Bullin	336,034	Feb. 9	1331	352	34	685
Umbrella	C. P. Coggeshall	354,537	Dec. 21	1293	344	37	1256
Umbrella	T. A. Crabtree	355,142	Dec. 28	2163	570	37	1430
Umbrella	J. B. Logan	348,223	Aug. 31	2499	672	36	956
Umbrella	P. Meyer, Jr.	337,276	Mar. 2	530	139	34	1024
Umbrella	J. D. Nesbitt	351,280	Oct. 19	1671	439	37	318
Umbrella	M. M. Ray	348,584	Sept. 7	70	20	36	1060
Umbrella	U. G. Steinmetz	336,532	Feb. 16	2067	543	34	821
Umbrella	U. G. Steinmetz	354,027	Dec. 7	549	149	37	1106
Umbrella	W. A. Webster	341,192	May 4	304	86	35	561
Umbrella	H. A. W. Wood	349,023	Sept. 14	668	172	36	1173
Umbrella and parasol	A. Sydenham	341,862	May 11	1225	328	35	744
Umbrella case or bin	W. H. Duff	346,648	Aug. 3	254	69	36	510
Umbrella-casing	R. E. Ghezzi	337,145	Mar. 2	351	91	34	990
Umbrella drip-cup	D. F. Taber	348,600	Sept. 7	95	27	36	1064
Umbrella handle	A. T. Schlichting	335,314	Feb. 2	320	84	34	499
Umbrella-holder	C. G. Ulings	352,844	Nov. 16	1543	416, 417	37	761
Umbrella or parasol	J. H. Davies	341,734	May 11	1060	281	35	713
Umbrella or parasol	G. W. Jones	334,588	Jan. 19	1549	414	34	300
Umbrella or parasol	E. Retornat	352,781	Nov. 16	1458	393	37	747
Umbrella or parasol	J. T. Smith	338,566	Mar. 23	2578	597	34	1358
Umbrella or parasol	J. T. Smith	353,172	Nov. 23	2017	540	37	861
Umbrella or parasol	J. T. Smith	353,173	Nov. 23	2018	541	37	861
Umbrella or parasol tie	J. T. Smith	353,764	Dec. 7	154	43	37	1035
Umbrella, parasol, or sunshade	T. Brearley	353,841	Dec. 7	269	71	37	1056
Umbrella. Pocket-	A. Hall	352,868	Nov. 16	1574	425	37	768
Umbrella-retainer	J. B. Durand	336,846	Feb. 23	2500	659	34	907
Umbrella-ribs. Machine for making	D. M. Redmond	343,253	June 8	700	173, 174	35	1142
Umbrella-runner	J. H. Simpson	353,978	Dec. 7	479	130	37	1094
Umbrella-runners. Fastener for	R. A. Merchant	343,963	June 15	1705	436	35	1332
Umbrella-support	F. Haitz	347,343	Aug. 17	1210	323, 324	36	705
Umbrella-support	J. M. Shelton	348,062	Aug. 24	2257	604	36	906
Umbrella-support	J. T. Smith	350,781	Oct. 12	954	256	37	181
Umbrella-support	H. Tosso	351,669	Oct. 26	2274	589	37	435
Umbrella-tie	E. L. Glenn	338,223	Mar. 16	1812	473	34	1268
Under-garment	M. W. Agnew	348,181	Aug. 31	2439	654, 655	36	945
Under-garment	R. H. Paine	353,963	Dec. 7	454	123	37	1089

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Pg.
Undercutting-knife	W. M. Dwight	354,974	Dec. 28	1921	508	37	1385
Underground conduit	J. S. Du Bois	354,892	Dec. 28	1809	478	37	1364
Underground conduit	T. A. B. Putnam	335,091	Jan. 26	2227	591	34	432
Undershirt. Lady's	W. H. Bilbrough	338,024	Mar. 16	1552	401	34	1217
Underwaist or strengthening-corset for children	E. Nagle	337,289	Mar. 2	538	141	34	1026
Unwinding attachment. Automatic	M. G. Hubbard	347,802	Aug. 24	1876	500	36	836
Unwinding attachment. Automatic	M. G. Hubbard	347,803	Aug. 24	1877	501	36	836
Upholstering-roll	G. W. and D. A. Moore, Jr	348,634	Sept. 7	141	39	36	1073
Upper	W. Hughes	345,141	July 6	477	121	36	87
Uppers. Machine for stretching	A. F. Preston	350,467	Oct. 5	517	144	37	97
Uppers. Machine for stretching and finishing crimped	L. Knetzger	340,445	Apr. 20	1922	494	35	358
Urinal	E. C. Condit	349,030	Sept. 14	678	174	36	1175
Urinal	J. S. Given, Jr., and F. F. Martinez, Jr.	345,584	July 13	1123	287	36	207
Urinal	T. W. Mann	335,601	Feb. 9	722	192, 193	34	577
Urinal-fitting	J. Barrett	341,310	May 4	485	131	35	593
Urn. Coffee	C. Halstead	346,278	July 27	2104	542	36	403
Urn. Coffee	C. Halstead	355,013	Dec. 28	1978	520	37	1395
Uterine supporter	M. F. Haynes	350,246	Oct. 5	204	59	37	43
Vacuum-motor	R. Solano	349,758	Sept. 28	1685	436	36	1383
Vacuum-pan	A. B. Frenzel	338,662	Mar. 23	2409	634	34	1380
Vacuum-pan	A. B. Frenzel	350,424	Oct. 5	424	122, 123, 124	37	83
Vacuum-pan	C. Harriman	350,360	Oct. 5	345	99	37	70
Vacuum-pans. Construction and operation of	W. H. Collings	335,430	Feb. 2	478	124	34	527
Vacuums. Apparatus for the production of high	A. L. and C. F. Reinmann	338,551	Mar. 23	2255	593	34	1354
Vacuums. Apparatus for the production of high	A. L. Reinmann and C. G. Ott	339,930	Apr. 13	1194	298	35	219
Valise	D. W. Brockway	337,367	Mar. 9	649	172	34	1053
Valise, &c.	N. G. French	340,567	Apr. 27	2108	543	35	398
Valise. Extension	S. G. Damren	351,745	Nov. 2	20	6	37	462
Valve	J. H. Crosby	344,724	June 29	2750	713	35	1537
Valve	J. J. De Kinder	335,112	Feb. 2	16	5	34	443
Valve	H. R. Frisbie	333,940	Jan. 5	607	165	34	114
Valve	H. R. Frisbie	333,941	Jan. 5	609	166	34	114
Valve	E. A. C. Giebeler	335,221	Feb. 2	196	52	34	475
Valve	P. Harvey	334,431	Jan. 19	1333	360	34	261
Valve	P. Harvey	354,414	D c. 14	1107	297	37	1316
Valve	F. Henneboehle	345,056	July 6	362	91	36	66
Valve	A. Horne	337,498	Mar. 9	853	216	34	1086
Valve	J. Janotte	353,068	Nov. 23	1867	505	37	831
Valve	T. F. Morrin	347,727	Aug. 17	1769	472	36	807
Valve	R. C. Page and F. H. Soden	338,771	Mar. 30	2590	682	34	1418
Valve	H. W. Simms	340,630	Apr. 27	2192	577	35	412
Valve	F. E. and F. E. Small	348,590	Sept. 7	78	23	36	1062
Valve	H. Trott	350,219	Oct. 5	175	51	37	36
Valve	W. Wade	345,197	July 6	547	140	36	100
Valve	J. Walsh, Jr.	334,314	Jan. 12	1170	313	34	225
Valve	D. P. Weir	348,303	Aug. 31	2607	701, 702	36	978
Valve	P. J. White	340,470	Apr. 20	1960	503	35	364
Valve	O. L. Whiteman	351,142	Oct. 19	1493	391	37	286
Valve	E. F. Williams	350,650	Oct. 12	786	214	37	150
Valve. Air-	J. S. T. A., and E. R. Walker	353,995	Dec. 7	500	135	37	1007
Valve. Air-vent	M. J. Smith	338,196	Mar. 16	1777	464	34	1262
Valve and branch-pipe. Four-way	E. Vangezell and H. Stetser	337,718	Mar. 9	1126	290	34	1134
Valve and faucet attachment for casks. Bushing-	W. W. Jackson	339,297	Apr. 6	263	66	35	49
Valve and heater. Combined	G. H. Poor	354,221	Dec. 14	843	224	37	1167
Valve and overflow-pipe for bath-tubs, wash-basins, sinks, &c. Combined	W. Bunting, Jr.	347,684	Aug. 17	1711	457	36	797
Valve and tap-valve faucet. Tap-	M. G. Gillette and L. King	346,438	July 27	2333	600, 601	36	445
Valve. Automatic pressure-regulating	T. J. Kieley	338,418	Mar. 23	2086	546	34	1324
Valve. Automatic safety-	P. Gennet and J. Wyman, Jr	349,389	Sept. 21	1172	303	36	1278
Valve. Automatic stop-	J. L. Chapman	334,640	Jan. 19	1624	432, 433	34	314
Valve. Automatic stop-	L. Schutte	344,501	June 29	2465	633	35	1482
Valve. Balance-	A. Beckert	352,801	Nov. 16	1490	401	37	752
Valve. Balance slide-	W. A. Dobson	339,979	Apr. 13	1264	314	35	231
Valve. Balance slide-	P. Leeds	339,458	Apr. 6	465	113	35	86
Valve. Balanced	E. B. Benham	341,827	May 11	1179	315	35	736
Valve. Balanced	A. Craik	334,690	Jan. 19	1692	452	34	326
Valve. Balanced	L. Kneedler	342,444	May 25	2055	542	35	911
Valve. Balanced	E. B. Sintzenich	334,136	Jan. 12	892	244	34	174
Valve. Balanced	T. H. Ward	333,799	Jan. 5	415	112, 113	34	78
Valve. Balanced	D. A. Woodbury	334,835	Jan. 26	1880	500, 501	34	370
Valve. Balanced rocker-	A. B. Carll	339,265	Apr. 6	217	54	35	40
Valve. Balanced rotary	J. S. Glenn	335,188	Feb. 2	144	37	34	467
Valve. Balanced slide-	W. I. Bettis	350,718	Oct. 12	875	235	37	166
Valve. Balanced slide-	B. Hale	347,713	Aug. 24	1863	496	36	833
Valve. Balanced slide-	W. Jackson	345,235	July 6	599	152	36	108
Valve. Balanced slide-	L. Kneedler	349,048	Sept. 14	705	180	36	1180
Valve. Balanced slide-	M. N. Packard	342,033	May 18	1454	389	35	794
Valve. Balanced slide-	J. W. Stokes	342,763	May 25	2514	671	35	996
Valve. Balanced slide-	A. Thomson	337,714	Mar. 9	1120	289	34	1133
Valve. Balanced slide-	R. Walton	351,547	Oct. 26	2092	543	37	402
Valve. Balanced slide-	W. H. Wheeler	348,254	Aug. 31	2540	682	36	964
Valve. Balanced steam-	W. W. Lewis	337,688	Mar. 9	1083	280	34	1127
Valve. Ball-	D. D. Buick	338,477	Mar. 23	2162	565	34	1358
Valve. Ball-	H. C. Lowrie	343,327	June 8	818	205, 206	35	1162

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Valve. Check-	J. G. Blount	344,620	June 29	2620	679	35	1514
Valve. Check-	J. W. Eskholme	345,420	July 13	869	216, 217	36	162
Valve. Check-	A. D. Glace	349,586	Sept. 21	1436	371	36	1330
Valve. Check-	W. T. Messinger	346,600	Aug. 3	190	51	36	497
Valve. Cistern overflow-	J. Demarest	348,663	Sept. 7	181	48	36	1079
Valve-controller and thermostat combined. Electric	F. A. Price	354,932	Dec. 28	1867	493	37	1374
Valve-coupling	R. R. Rouse	349,321	Sept. 21	1055	270	36	1256
Valve. Differential	H. Wiedling	347,856	Aug. 24	1955	519	36	851
Valve. Distributing-	V. H. Becker	337,362	Mar. 9	644	170	34	1052
Valve. Duplex steam-	S. Mills	353,457	Nov. 30	2428	648	37	945
Valve. Electric	W. S. Johnson	342,018	May 18	1435	385	35	790
Valve. Electric	W. S. Johnson	351,702	Oct. 26	2316	602	37	444
Valve. Electro-automatic	A. S. Kissell	343,642	June 15	1271	320	35	1521
Valve. Engine-	J. Ferguson	335,571	Feb. 9	677	178, 179	34	568
Valve. Engine-	J. Ferguson	351,857	Nov. 2	186	51, 52	37	493
Valve. Engine-	G. Schuhmann	334,089	Jan. 12	825	226	34	161
Valve. Fluid-pressure-regulating	J. W. Ramsey	352,890	Nov. 16	1604	432	37	774
Valve. Fluid-regulating	J. W. Ramsey	340,458	Apr. 20	1939	498	35	560
Valve for barrels. Ventilating-	C. Rocker	346,385	July 27	2253	576	36	431
Valve for beer-casks. Safety-	J. C. Schaefer	347,645	Aug. 17	1661	440	36	788
Valve for engines	J. Thom	344,881	July 6	125	31	36	22
Valve for engines. Slide-	C. Schmid	347,012	Aug. 10	734	195	36	608
Valve for fusible safety-plugs	J. A. Flajole	340,994	May 4	33	9	35	512
Valve for gas-purifiers. Dry center-	F. Weck	345,559	July 13	1068	278	36	201
Valve for hydraulic elevators	P. F. Morey	354,020	Dec. 7	539	146	37	1104
Valve for hydraulic elevators. Automatic regulating-	N. C. Bassett	348,610	Sept. 7	109	31	36	1067
Valve for locomotives. Reversing-	P. Maltby	347,881	Aug. 24	1996	529, 530	36	857
Valve for radiators. Air-	A. C. Walworth	345,747	July 20	1366	355	36	258
Valve for regulating the flow of gas in mains, &c	E. B. Donkin	344,088	June 22	1891	485	35	1372
Valve for soil-pipe ventilators. Check-	L. B. Sawyer	340,157	Apr. 20	1511	382	35	283
Valve for steam-engines	T. Brantley	344,342	June 29	2240	577	35	1442
Valve for tubular wells. Lifting-	J. Fox	348,491	Aug. 31	2866	771	36	1027
Valve for water-pipes. Air-	J. W. Moore	351,994	Nov. 2	389	106	37	531
Valve. Gas-pressure-regulating	L. Shook	341,776	May 11	1111	295	35	721
Valve. Gate-	W. Jackson	351,918	Nov. 2	278	76	37	508
Valve. Gate-	W. Scott	340,371	Apr. 20	1833	470	35	341
Valve-gear	C. H. Benton	344,027	June 22	1798	463	35	1355
Valve-gear	L. W. Bryan	346,190	July 27	1978	511	36	379
Valve-gear	D. H. Dugar	345,372	July 13	794	200	36	148
Valve-gear	B. B. Hough	346,658	Aug. 3	264	72	36	512
Valve-gear	G. L. Hoxsie	335,199	Feb. 2	159	41	34	469
Valve-gear	C. E. Kimball	353,032	Nov. 23	1814	486	37	821
Valve-gear	H. C. Mooers	346,492	Aug. 3	55	14	36	470
Valve-gear	J. H. Pendleton	349,898	Sept. 28	1870	483	36	1421
Valve-gear	J. B. Pitchford	340,035	May 18	1456	389	35	794
Valve-gear	N. W. Twiss	350,172	Oct. 5	107	30, 31	37	22
Valve-gear	W. Wilson	333,706	Jan. 5	287	78	34	54
Valve-gear. Automatic	F. A. Gardner	352,238	Nov. 9	753	201	37	604
Valve-gear. Engine	J. Grime	335,578	Feb. 9	689	182	34	570
Valve-gear. Engine	R. A. McLellan	349,512	Sept. 21	1338	347, 348	36	1311
Valve-gear. Engine	J. B. Pitchford	342,036	May 18	1458	390	35	795
Valve-gear. Engine	P. I. Schmaltz	347,521	Aug. 17	1463	388	36	750
Valve-gear for duplex engines	J. Fielding	334,576	Jan. 19	1536	411	34	298
Valve-gear for engines	H. Wiedling	341,085	May 4	148	44, 45	35	532
Valve-gear for oscillating engines	T. J. Baum	339,132	Apr. 6	19	6	35	6
Valve-gear for steam-engines	H. C. Behr	348,309	Aug. 31	2616	705	36	980
Valve-gear for steam-engines	G. S. Strong	355,035	Dec. 28	2004	528, 529	37	1399
Valve-gear for steam-pumps	A. Hill	338,152	Mar. 16	1718	448, 449	34	1250
Valve-gear. Reversible	P. I. Schmaltz	347,386	Aug. 17	1374	339	36	716
Valve-gear. Steam-	M. Murphy	340,054	Apr. 13	1367	343	35	250
Valve-gear. Steam-engine	W. Wilson	353,044	Nov. 23	1835	493, 494	37	824
Valve. Governor-	J. P. Walters	342,275	May 18	1787	473	35	856
Valve. Hydraulic	G. B. Lamb	336,724	Feb. 23	2341	613	34	877
Valve-indicator for steam-engines	A. L. Ide	343,032	June 1	356	92, 93	35	1072
Valve. Locomotive steam-	M. de Ma. Campos	344,171	June 22	2005	514	35	1392
Valve mechanism	B. B. Hough	346 657	Aug. 3	261	72	36	511
Valve mechanism for engines	C. W. Cooper	344,080	June 22	1879	483	35	1370
Valve mechanism for steam pumping-engines	W. L. Shepard	344,998	July 6	293	73	36	53
Valve-motion	J. S. Ash	337,293	Mar. 2	556	147	34	1028
Valve-movement for direct-acting engines	W. D. Hooker	349,045	Sept. 14	639	179	36	1179
Valve-movement in pumping-engines	C. F. Richardson	345,731	July 20	1340	348	36	254
Valve-operating device	C. A. Goyne	347,173	Aug. 10	966	258	36	651
Valve. Pressure-reducing	G. M. Davis	339,865	Apr. 13	1108	276	35	203
Valve. Pressure-regulating	P. F. Morey	346,212	July 27	2012	519	36	385
Valve. Puppet-	C. F. Putnam	339,809	Apr. 13	1033	256	35	189
Valve. Relief-	J. Brengel	351,159	Oct. 19	1512	396	37	290
Valve. Relief-	J. Briscoe	337,236	Mar. 2	472	123	34	1013
Valve. Relief-	J. O. Rusby	347,892	Aug. 24	2011	533	36	859
Valve. Rotary	W. C. Denmead	344,172	June 22	2007	514	35	1393
Valve. Rotary steam-	W. H. Smith	352,895	Nov. 16	1612	433	37	775
Valve. Safety-	J. Barbe, E. Fauvel, and P. Chalon	350,285	Oct. 5	250	73	37	52
Valve. Safety-	J. M. Coale	338,827	Mar. 30	2665	701, 702	34	1432
Valve. Safety-	M. M. Monsanto	351,198	Oct. 19	1568	412	37	300
Valve. Safety-	W. S. Payne	338,436	Mar. 23	2112	533	34	1389
Valve. Safety-	G. W. Richardson	344,862	July 6	95	24	36	18

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Valve. Safety-	G. W. Richardson	344,864	July 6	99	25	36	18
Valve. Safety-	G. W. Richardson	344,865	July 6	100	25	36	18
Valve. Safety-	G. W. Richardson	344,866	July 6	102	26	36	19
Valve. Safety-	J. Sargent	347,516	Aug. 17	1456	387	36	749
Valve. Safety-	W. F. Walker	347,213	Aug. 10	1021	272	36	661
Valve-seat	D. J. Nysewander	338,609	Mar. 23	2334	611	34	1328
Valve-seat. Adjustable	J. E. McIntosh	344,190	June 22	2033	519, 520	35	1398
Valve-seats. Device for dressing	H. R. Tower	352,591	Nov. 16	1204	327	37	698
Valve. Sewer-pipe back-pressure	W. H. Simpkins	353,888	Dec. 7	343	92	37	1070
Valve. Slide-	C. H. Baker	336,980	Mar. 2	129	35	34	946
Valve. Slide-	J. Booth	339,734	Apr. 13	938	230	35	171
Valve. Slide-	J. W. Payler	337,613	Mar. 9	905	255	34	1112
Valve. Slide-	Z. T. Reno	342,633	May 25	2328	615	35	961
Valve. Slide-	Z. T. Reno	348,777	Sept. 7	324	87	36	1108
Valve. Slide-	C. Schmid	337,441	Mar. 9	783	200	34	1074
Valve. Slide-	D. Tufts	342,054	May 18	1483	397	35	800
Valve. Slide-	D. Tufts	342,055	May 18	1486	397	35	800
Valve. Steam-	G. H. Duthie	346,434	July 27	2328	599	36	444
Valve. Steam-	G. H. Duthie	346,435	July 27	2329	600	36	444
Valve. Steam-	F. Schumann	339,814	Apr. 13	1037	257	35	190
Valve. Steam-	A. Vogel	337,537	Mar. 9	906	231	34	1095
Valve. Steam-actuated	L. B. Carricaburu	336,211	Feb. 16	1624	424	34	742
Valve. Steam-actuated	W. M. Cary	334,108	Jan. 12	833	235	34	165
Valve. Steam-actuated	G. Clarke	344,032	June 22	1804	464	35	1356
Valve. Steam-actuated	W. H. and R. Hughes	348,215	Aug. 31	2487	668	36	954
Valve. Steam-actuated	J. B. Maas	343,911	June 15	1633	417	35	1319
Valve. Steam-actuated	F. M. Pierce	340,729	Apr. 27	2338	616	35	437
Valve. Steam-actuated	J. J. Reilly	340,819	Apr. 27	2455	646	35	459
Valve. Steam-actuated	W. L. Saunders	344,991	July 6	281	71	36	51
Valve. Steam-actuated	H. C. Sergeant. (Reissue)	10,682	Feb. 2	649	170	34	557
Valve. Steam-actuated	W. L. Shepard	340,958	Apr. 27	2637	695	35	491
Valve. Steam-actuated	J. T. Toole	335,855	Feb. 9	1083	286	34	643
Valve. Steam-engine	C. W. Barnaby	340,541	Apr. 27	2069	534	35	392
Valve. Steam-engine	S. P. Blackburn	347,914	Aug. 24	2045	543	36	666
Valve. Steam-engine	S. P. Blackburn	347,915	Aug. 24	2046	543	36	866
Valve. Steam-engine	J. Richards	341,691	May 11	1012	267	35	703
Valve. Steam-engine	J. Smith	350,606	Oct. 12	713	194	37	137
Valve. Steam-engine	T. H. Ward	338,004	Mar. 16	1523	394, 395	34	1212
Valve. Steam-engine relief	J. H. Duffey	333,616	Jan. 5	156	42	34	31
Valve. Stop-	J. Berry	348,104	Aug. 24	2315	620, 621	36	917
Valve. Stop-	D. Kennedy	338,275	Mar. 23	1884	495	34	1289
Valve. Stop-	J. Walsh, Jr.	334,315	Jan. 12	1171	314	34	225
Valve. Stop and check	J. E. Bott	335,886	Feb. 9	1139	302	34	651
Valve. Straight-way	E. Lunkenheimer	341,424	May 4	628	172	35	619
Valve. Straight-way	E. Lunkenheimer	354,019	Dec. 7	537	146	37	1104
Valve. Straight-way	E. Lunkenheimer. (Reissue)	10,769	Sept. 28	2143	555	36	1472
Valve. Straight-way	J. T. Paget	334,184	Jan. 12	966	262	34	186
Valve. Straight-way	W. Scott	342,542	May 25	2198	582	35	937
Valve. Syringe-	C. A. Tatum	342,478	May 25	2102	555	35	920
Valve. Tank-	P. White	354,285	Dec. 14	948	250	37	1185
Valve. Throttle-	H. Hopkins and A. E. Johnson	347,041	Aug. 10	773	206	36	616
Valve. Throttle-	T. R. Pickering	341,345	May 4	523	144	35	599
Valve. Throttle-	T. R. Pickering	341,346	May 4	525	145	35	660
Valve. Throttle-	J. A. Stoutenburgh	344,217	June 22	2069	530	35	1404
Valve. Water-gage	J. L. Nelson and A. F. Landerholm	355,098	Dec. 28	2102	532	37	1418
Valves. Device for operating	G. H. Graham and J. A. Creelman	350,881	Oct. 12	1103	294	37	208
Valves. Device for operating	F. A. Hinds	339,888	Apr. 13	1140	283	35	210
Valves. Electrical apparatus for working	H. Likly, C. A. Carpenter, and F. B. Graves.	353,637	Nov. 30	2698	721	37	994
Valves. Fitting for steam and other	J. G. Whitlock	342,853	June 1	105	27	35	1025
Valves. Link-motion for working	A. D. B. Douglas	336,844	Feb. 23	2498	658	34	907
Valves. Muffler attachment for safety	G. W. Richardson	342,267	May 18	1769	469	35	853
Valves. Muffler for steam-	T. E. Hill	342,962	June 1	265	68, 69	35	1054
Valves. Muffler for steam-	T. E. Hill	353,062	Nov. 23	1862	503	37	829
Valves on their seats. Machine for grinding	E. U. Scoville and C. Owen	347,130	Aug. 10	901	240, 241	36	639
Valves. Safety-stop for throttle-	G. E. Messer	334,261	Jan. 12	1103	295	34	12
Van. Passenger-	C. G. Canfield	342,573	May 25	2234	594	35	944
Vapor-bath	C. A. Munro	348,923	Sept. 7	524	138	36	1143
Vapor-burner	M. C. Armour and F. G. Bielefeld	353,654	Dec. 7	1	1	37	1007
Vapor-burner	H. S. Belden	354,300	Dec. 14	964	256	37	1188
Vapor-burner	W. Bliesner	334,737	Jan. 26	1759	469	34	347
Vapor-burner	Z. Davis	353,927	Dec. 7	396	105	37	1079
Vapor-burner	O. Ewert	334,166	Jan. 12	944	255	34	182
Vapor-burner	M. L. Hull	347,712	Aug. 17	1751	466	36	804
Vapor-burner	F. A. Lyman	350,439	Oct. 5	461	130	37	89
Vapor-burner	C. A. and L. Stockstrom	350,086	Sept. 28	2131	551	36	1469
Vapor-burning furnace	J. M. Shephard	349,906	Sept. 28	1880	486	36	1422
Vapor-engine	J. H. Campbell	337,373	Mar. 9	661	173	34	1055
Vapor-engine	W. H. Wood	338,814	Mar. 30	2643	697	34	1428
Vapor engine. Hydrocarbon-	J. J. R. Humes	350,200	Oct. 5	141	41, 42	37	30
Vapor engines. Operating explosive-	L. H. Nash	334,041	Jan. 12	755	207, 208	34	149
Vapor-fuel generator	J. N. Maher	354,643	Dec. 21	1460	387	37	1285
Vapor-generator	J. A. Beardsley	348,820	Sept. 7	374	101	36	1117
Vapor or gas. Apparatus for generating	J. B. Archer	341,629	May 11	918	243	35	685
Vaporizer	A. Fulton	349,273	Sept. 14	1005	256	36	1237
Vaporizer for fire-places	C. H. Humbert	344,315	June 22	2200	566	35	1428
Vaporizing and distilling liquids	L. H. Pearce	348,772	Sept. 7	319	85	36	1107
Vaporizing liquids. Apparatus for	H. Goldwater	335,281	Feb. 2	277	73	34	490
Varnish	W. Macrone	344,119	June 22	1934	.....	35	1380

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Varnish. Colored	A. Müller-Jacobs	343,331	June 8	826	.....	35	1163
Varnishing-machine	J. D. Ehlers	344,954	July 6	215	55	36	40
Vase and stand. Flower	T. Jewitt	343,904	June 15	1626	415	35	1317
Vase. Flower	E. I. Braddock	342,675	May 25	2382	630	35	971
Vat:							
See Cream-tempering vat.							
Vats. Gate for	F. Thau	352,073	Nov. 2	496	134	37	552
Vault cover. Reversible	E. L. Brown	339,139	Apr. 6	28	9	35	8
Vault-cover. Ventilating	E. L. Brown	339,138	Apr. 6	27	8	35	7
Vault-covers. Hinge for	E. L. Brown	339,140	Apr. 6	29	9	35	8
Vault-light	H. F. Stuck	336,171	Feb. 16	1553	409	34	730
Vault. Safe-deposit	F. Foster	347,267	Aug. 10	1090	291	36	673
Vaults. Discharge-pipe for	J. Beard	345,023	July 6	325	82	36	59
Vaults, sidewalk-traps, &c. Cover for	W. Bayley	346,800	Aug. 3	426	117	36	543
Vegetable and root cutter	I. P. Cribb	352,451	Nov. 9	1025	276	37	658
Vegetable-chopper	J. E. Opp	343,840	June 15	1544	391	35	1301
Vegetable-cutter	D. Bullock	335,500	Feb. 2	571	149	34	543
Vegetable-cutter	J. H. Fraumann	336,909	Mar. 2	39	10	34	934
Vegetable-cutter	J. A. Kirk	340,884	Apr. 27	2540	668	35	473
Vegetable-cutter	C. A. Seegmueller	338,306	Mar. 23	1923	506	34	1296
Vegetable-cutter	S. D. Wetherby	347,146	Aug. 10	931	248	36	644
Vegetable-masher	J. M. Holmes	344,046	June 22	1827	469	35	1360
Vegetable products. Composition for coating	C. H. Sharman	351,213	Oct. 19	1585	.....	37	303
Vegetable-slicer	S. C. Norris	338,674	Mar. 23	2431	641	34	1384
Vegetable-slicer	J. R. Wharry	340,843	Apr. 27	2485	654	35	464
Vehicle	C. Dinsmoor	351,749	Nov. 2	28	7	37	464
Vehicle	J. R. Parsons and H. H. Welch	352,981	Nov. 23	1735	465	37	806
Vehicle	C. W. Saladee	345,179	July 6	521	134	36	95
Vehicle	W. D. Smith	334,908	Jan. 26	1969	524	34	387
Vehicle-bodies. Tool for handling	G. M. Peters	343,195	June 8	612	152	35	1127
Vehicle-body	J. Dixon	340,297	Apr. 20	1729	440	35	321
Vehicle-body	G. P. Lee	347,621	Aug. 17	1607	426	36	778
Vehicle-body fender	C. D. Bailey	333,497	Jan. 5	3	2	34	3
Vehicle-brake	C. A. Burr	352,115	Nov. 9	569	151	37	572
Vehicle-brake	C. S. Chamberlain and J. Miller	341,093	May 4	160	48	35	534
Vehicle-brake	W. J. Devers	337,134	Mar. 2	339	88	34	988
Vehicle-brake	J. L. Freasier	350,050	Sept. 28	2069	535	36	1458
Vehicle-brake	P. R. Gottstein and G. P. McFarlane	345,299	July 13	697	175, 176	36	131
Vehicle-brake	J. L. T. Linson	339,794	Apr. 13	1015	251	35	185
Vehicle-brake	J. E. Packard	341,936	May 18	1330	355	35	772
Vehicle-brake	W. J. Renniman	339,931	Apr. 13	1197	298	35	220
Vehicle-brake	R. H. Sayre	342,933	June 1	225	58	35	1046
Vehicle-brake	D. Tufts	342,482	May 25	2107	557	35	921
Vehicle-brake	H. Welbach	354,282	Dec. 14	946	249	37	1184
Vehicle-brake. Automatic	H. J. Banta	339,255	Apr. 6	204	52	35	38
Vehicle-brake. Automatic	H. Fatic	341,325	May 4	501	137	35	595
Vehicle-brake. Automatic	H. Fatic	349,033	Sept. 14	681	175	36	1176
Vehicle-coupling	T. A. Davison	354,307	Dec. 14	973	258	37	1190
Vehicle-coupling	H. C. Ohlsen	338,546	Mar. 23	2249	590, 591	34	1353
Vehicle-curtain	J. E. Bimm	337,120	Mar. 2	319	83	34	985
Vehicle-dash	J. M. Perkins	337,990	Mar. 16	1499	389	34	1208
Vehicle dash-frame	W. I. Atwood	337,294	Mar. 2	558	147	34	1029
Vehicle-fender	S. F. Sniffen	335,646	Feb. 9	787	209	34	588
Vehicle-gear	C. A. Blydenburgh	344,712	June 29	2734	710	35	1534
Vehicle-jack	E. H. Ryan	349,179	Sept. 14	881	226	36	1213
Vehicle. Jump-seat	T. G. Mandt	346,760	Aug. 3	383	105	36	535
Vehicle lantern-holder	E. C. Geneux	349,307	Sept. 21	1042	266	36	1253
Vehicle. One-wheeled	J. D. Greene	346,813	Aug. 3	439	120, 121	36	545
Vehicle platform-gear	T. H. Holman	342,695	May 25	2416	639	35	977
Vehicle platform-spring	E. A. Hendricks	345,898	July 20	1579	407	36	296
Vehicle. Power-driven	G. Daimler	347,160	Aug. 10	948	253	36	648
Vehicle. Road	C. W. Russell	354,488	Dec. 14	1213	325	37	1234
Vehicle-runner	J. Faucher	341,467	May 11	697	186	35	641
Vehicle runner	A. P. Yates	341,304	May 4	475	128	35	591
Vehicle running-gear	D. S. Anderson	346,700	Aug. 3	314	86	36	523
Vehicle running-gear	G. E. Bartholomew	349,136	Sept. 14	827	210	36	1203
Vehicle running-gear	A. J. Beach. (Reissue)	10,679	Jan. 19	1746	466	34	338
Vehicle running-gear	S. Burdsall	343,296	June 8	766	191	35	1154
Vehicle running-gear	S. M. Chester	347,159	Aug. 10	947	253	36	648
Vehicle running-gear	E. Fair	349,989	Sept. 28	1995	515	36	1443
Vehicle running-gear	F. Hildreth	334,439	Jan. 19	1342	363	34	363
Vehicle running-gear	J. H. Miller	343,248	June 8	692	171	35	1141
Vehicle running-gear	D. A. Sprague	348,642	Sept. 7	150	42	36	1075
Vehicle running-gear	W. S. Strickland	353,236	Nov. 23	2104	563	37	878
Vehicle running-gear	A. W. Tourgee and L. D. Jennings	336,534	Feb. 16	2069	544	34	822
Vehicle running-gear	J. Zeek	354,350	Oct. 19	1765	464	37	335
Vehicle sand-band	W. M. Farr	336,558	Feb. 23	2104	553	34	834
Vehicle sand-band	J. R. Clark	340,286	Apr. 20	1711	436	35	318
Vehicle-seat	G. E. Bartholomew	349,135	Sept. 14	826	210	36	1202
Vehicle-seat	H. L. Plisson	348,053	Aug. 24	2239	598, 599	36	903
Vehicle-seat	G. H. Sawyer	339,016	Mar. 30	2943	779	34	1482
Vehicle-seat	J. Steele	351,943	Nov. 2	313	87	37	515
Vehicle-seat lock	J. Casner	345,672	July 20	1263	327	36	240
Vehicle-seat lock	W. M. Farr	338,256	Mar. 23	1857	488	34	1285
Vehicle-seat lock	G. Simmons	347,894	Aug. 24	2014	534	36	860
Vehicle. Self-propelling	L. E. Russell and W. Obenchain	341,858	May 11	1218	326, 327	35	743
Vehicle shifting-rail	J. W. Hewitt	340,577	Apr. 27	2118	546	35	400
Vehicle. Side-bar	R. S. Hunzeker	339,188	Apr. 6	102	28	35	21
Vehicle. Side-spring	J. R. Northrup	348,926	Sept. 7	528	139	36	1144

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Vehicle. Spring	T. R. Bevans	351,826	Nov. 2	133	37	37	483
Vehicle. Spring	W. L. Earle and C. G. Crofoot	338,940	Mar. 30	2818	743	34	1461
Vehicle. Spring	W. Johnston	351,775	Nov. 2	63	17	37	470
Vehicle. Spring	J. A. Mack and C. Hansen	342,213	May 18	1692	451	35	839
Vehicle. Spring	H. A. Moyer	334,032	Jan. 12	739	202	34	146
Vehicle. Spring	O. E. Short	339,223	Apr. 6	149	40	35	29
Vehicle-spring	S. Atkinson	346,016	July 20	1747	449	36	326
Vehicle-spring	G. Banister	336,543	Feb. 23	2083	547	34	831
Vehicle-spring	A. Barling	354,672	Dec. 21	1503	398	37	1293
Vehicle-spring	M. Barry	336,544	Feb. 23	2085	547	34	831
Vehicle-spring	J. B. Baynes	343,791	June 15	1484	373	35	1290
Vehicle-spring	W. T. Beaty	354,850	Dec. 21	1739	461	37	1339
Vehicle-spring	C. A. Behlen	333,588	Jan. 5	124	34	34	26
Vehicle-spring	H. N. Black	333,814	Jan. 5	433	117	34	81
Vehicle-spring	N. H. Bloom	346 085	July 27	1832	473	36	351
Vehicle-spring	E. H. Booth	346,711	Aug. 3	331	90	36	525
Vehicle-spring	E. Bowman	352,675	Nov. 16	1324	356	37	720
Vehicle-spring	E. Cliff	342,731	May 25	2470	654, 655	35	987
Vehicle-spring	W. Cole	345,118	July 6	443	114	36	81
Vehicle-spring	W. J. Conroy	350,660	Oct. 12	796	216	37	152
Vehicle-spring	D. Cook	340,560	Apr. 27	2097	540, 541	35	397
Vehicle-spring	A. J. Cooper	351,581	Oct. 26	2148	556	37	411
Vehicle-spring	A. Edelmann	340,036	Apr. 13	1344	336	35	245
Vehicle-spring	W. W. Grier and E. F. Bengler	354,633	Dec. 21	1444	383, 384	37	1282
Vehicle-spring	J. F. Gross	352,918	Nov. 23	1648	442	37	791
Vehicle-spring	W. Harty	347,175	Aug. 10	969	259	36	651
Vehicle-spring	J. W. Henney	344,105	June 22	1913	490	35	1376
Vehicle-spring	E. J. Hess	338,072	Mar. 16	1604	418	34	1227
Vehicle-spring	S. Hunt	342,750	May 25	2499	665	35	993
Vehicle-spring	J. Jackson	349,221	Sept. 14	934	239, 240	36	1223
Vehicle-spring	T. S. King	342,109	May 18	1573	420	35	816
Vehicle-spring	W. E. Ludlum and W. A. Stevenson	344,785	June 29	2840	735	35	1553
Vehicle-spring	T. J. Magner	335,942	Feb. 9	1210	322	34	664
Vehicle-spring	R. Mulholland	347,500	Aug. 17	1433	381	36	745
Vehicle-spring	J. C. Oliver and J. M. Hunter	353,324	Nov. 30	2231	598	37	908
Vehicle-spring	J. W. Patterson	335,953	Feb. 9	1222	325	34	667
Vehicle-spring	J. W. Patterson	352,065	Nov. 2	485	131	37	550
Vehicle-spring	W. L. Purple	343,153	June 1	549	139	35	1107
Vehicle-spring	E. D. Roth	337,791	Mar. 9	1212	315	34	1149
Vehicle-spring	P. and C. Scheidt	346,225	July 27	2027	522, 523	36	389
Vehicle-spring	F. Schelp, Jr	339,588	Apr. 6	724	178	35	126
Vehicle-spring	F. Schelp, Jr	341,057	May 4	116	34, 35	35	526
Vehicle-spring	D. A. Schutt	346,952	Aug. 10	648	173	36	593
Vehicle-spring	D. M. Sechler	339,019	Mar. 30	2947	780	34	1482
Vehicle-spring	E. S. Smith	338,564	Mar. 23	2276	597	34	1357
Vehicle-spring	S. G. Smith	335,645	Feb. 9	785	208	34	588
Vehicle-spring	E. Storm	344,216	June 22	2068	529, 530	35	1404
Vehicle-spring	E. C. Tecktonius	344,221	June 22	2075	531	35	1406
Vehicle-spring	C. H. Terry	337,208	Mar. 2	434	114	34	1006
Vehicle-spring	B. A. Treat	349,960	Sept. 28	1957	505	36	1436
Vehicle-spring	C. H. Twist	354,577	Dec. 21	1782	470	37	1347
Vehicle-spring	J. Vondriska	349,541	Sept. 21	1379	357	36	1318
Vehicle-spring	J. J. Wolfe	342,160	May 18	1631	436	35	828
Vehicle-spring	J. R. Wright	338,905	Mar. 30	2778	732	34	1452
Vehicle-spring brace	R. Hoeft	341,242	May 4	380	104, 105	35	575
Vehicle-spring coupling	F. W. Wurster	350,282	Oct. 5	248	72	37	52
Vehicle-spring reliever	C. E. Albright	346,342	July 27	2191	562	36	419
Vehicle-springs. Bearing-block for	T. H. Neff	345,392	July 13	816	206	36	153
Vehicle-stake	C. A. Gould	335,918	Feb. 9	1181	314	34	659
Vehicle. Steam	W. R. Self	345,327	July 13	734	185	36	139
Vehicle-step	J. T. Gray	340,111	Apr. 20	1443	365	35	269
Vehicle-step	D. F. Winters	342,817	June 1	56	14	35	1016
Vehicle-top	G. Gifford	352,816	Nov. 16	1507	406	37	755
Vehicle-top	V. A. Menuez	342,874	June 1	140	34	35	1031
Vehicle-top-bow socket	J. M. Perkins	334,979	Jan. 26	2064	550	34	403
Vehicle-top joint	J. S. Wilkins, Jr	352,637	Nov. 16	1369	342	37	709
Vehicle-top slat-iron	J. M. Perkins	333,885	Jan. 5	529	143	34	99
Vehicle-top support	G. W. Scott and C. Leidigh	342,046	May 18	1472	394	35	797
Vehicle. Two-wheeled	J. Anderson	350,284	Oct. 5	249	72	37	52
Vehicle. Two-wheeled	I. Barber and J. F. Croft	342,993	June 1	300	77	35	1061
Vehicle. Two-wheeled	T. S. Bayley	347,022	Aug. 10	745	198	36	610
Vehicle. Two-wheeled	C. B. Beebe	342,996	June 1	302	78	35	1061
Vehicle. Two-wheeled	C. S. Beebe	349,558	Sept. 21	1399	362	36	1322
Vehicle. Two-wheeled	C. Bew	348,448	Aug. 31	2808	755	36	1017
Vehicle. Two-wheeled	G. C. Bovey	350,034	Sept. 28	2053	530	36	1454
Vehicle. Two-wheeled	G. C. Bovey	353,620	Nov. 30	2672	716	37	990
Vehicle. Two-wheeled	T. H. Brown	339,615	Apr. 13	765	189	35	141
Vehicle. Two-wheeled	T. H. Brown	341,447	May 11	664	179	35	635
Vehicle. Two-wheeled	C. Buckel	341,830	May 11	1183	316	35	737
Vehicle. Two-wheeled	J. H. Cloyes	349,207	Sept. 14	917	236	36	1220
Vehicle. Two-wheeled	J. H. Cloyes	349,208	Sept. 14	918	236	36	1220
Vehicle. Two-wheeled	W. E. Davies and W. C. Gayley	334,219	Jan. 12	1030	274	34	200
Vehicle. Two-wheeled	S. P. Davis	345,373	July 13	794	200	36	148
Vehicle. Two-wheeled	J. J. Deal	334,939	Jan. 26	2006	535	34	393
Vehicle. Two-wheeled	L. L. Dunbar	339,746	Apr. 13	956	235	35	174
Vehicle. Two-wheeled	J. L. Dyer and J. A. Berry	336,513	Feb. 16	2040	535, 536	34	817

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Vehicle. Two-wheeled	C. A. Ellison	338,590	Mar. 23	2308	605	34	1362
Vehicle. Two-wheeled	J. G. Gay	337,258	Mar. 2	502	131	34	1019
Vehicle. Two-wheeled	C. H. Gleason	335,350	Feb. 2	372	97	34	508
Vehicle. Two-wheeled	H. G. M. Howard	341,144	May 4	239	71	35	549
Vehicle. Two-wheeled	H. G. M. Howard	351,833	Nov. 2	141	39	37	485
Vehicle. Two-wheeled	H. G. M. Howard	352,870	Nov. 16	1577	426	37	769
Vehicle. Two-wheeled	M. L. Knowles	347,490	Aug. 17	1492	378	36	743
Vehicle. Two-wheeled	M. H. Lane and J. H. Cloyes	344,146	June 22	2025	518	35	1397
Vehicle. Two-wheeled	W. H. Long	343,134	June 1	523	133	35	1101
Vehicle. Two-wheeled	W. H. and C. A. Makutchan	345,708	July 20	1307	338	36	248
Vehicle. Two-wheeled	F. P. McKeon	343,484	June 8	1058	264	35	1206
Vehicle. Two-wheeled	M. Newell and J. O. Litten	344,129	June 22	1945	497	35	1381
Vehicle. Two-wheeled	C. W. Noyes	343,526	June 8	1103	278	35	1214
Vehicle. Two-wheeled	C. W. Noyes	344,851	July 6	74	19	36	14
Vehicle. Two-wheeled	W. F. Quinby	350,992	Oct. 19	1290	338	37	248
Vehicle. Two-wheeled	W. Rooke	350,158	Oct. 5	85	24	37	18
Vehicle. Two-wheeled	S. Röthlisberger	339,215	Apr. 6	141	37	35	27
Vehicle. Two-wheeled	H. C. Sears	335,248	Feb. 2	229	60, 61	34	481
Vehicle. Two-wheeled	N. W. Sherman	334,091	Jan. 12	829	227	34	162
Vehicle. Two-wheeled	H. Shogren	334,991	Jan. 26	2077	555	34	405
Vehicle. Two-wheeled	H. B. Sortor and G. S. Bennett	348,795	Sept. 7	344	93	36	1111
Vehicle. Two-wheeled	J. W. Vorwick	343,262	June 8	711	176	35	1144
Vehicle. Two-wheeled	F. Wienberg	342,156	May 18	1624	435	35	827
Vehicle-wheel	C. L. O. Bell	340,138	Sept. 14	830	211	36	1203
Vehicle-wheel	G. Brock	336,207	Feb. 16	1620	422	34	741
Vehicle-wheel	C. G. Deming	350,918	Oct. 19	1157	307	37	225
Vehicle-wheel	M. M. Gray	350,929	Oct. 19	1167	310	37	227
Vehicle-wheel	H. M. Horne	339,180	Apr. 6	84	25	35	18
Vehicle-wheel	H. M. Horne	339,181	Apr. 6	87	25	35	18
Vehicle-wheel	E. Huber. (Reissue)	10,727	May 18	1862	493	35	959
Vehicle-wheel	J. A. Johnston	349,435	Sept. 21	1231	319	36	1289
Vehicle wheel	F. L. Kirkbride	333 759	Jan. 5	363	99	34	68
Vehicle-wheel	J. Macphail	352,141	Nov. 9	615	162	37	580
Vehicle-wheel	J. Macphail and F. M. Needham	352,924	Nov. 23	1654	445	37	792
Vehicle-wheel	J. McCallum	352,551	Nov. 16	1147	310	37	688
Vehicle-wheel	A. L. H. Messmer	352,832	Nov. 16	1525	411	37	758
Vehicle-wheel	I. H. Reiner	354,584	Dec. 21	1360	361	37	1268
Vehicle-wheel	D. H. Rice	349,746	Sept. 28	1671	431	36	1380
Vehicle-wheel	H. Sague	350,321	Oct. 5	295	84	37	60
Vehicle-wheel	H. Sieben and W. F. Jacubzick	351,661	Oct. 26	2265	586	37	433
Vehicle-wheel	H. C. Stahl and J. C. Rosebaugh	334,301	Jan. 12	1156	309	34	223
Vehicle-wheel	F. W. Starr	353,831	Dec. 7	250	67	37	1052
Vehicle-wheel	W. W. Valentine	347,845	Aug. 24	1943	515	36	849
Vehicle-wheel	G. T. Warwick	350,176	Oct. 5	112	32	37	24
Vehicle-wheel	J. R. Winston	346,008	July 20	1733	447	36	323
Vehicle. Wheeled	W. B. Kelly	351,922	Nov. 2	281	78	37	509
Vehicle-wheels. Spoke for	S. Toomey	350,573	Oct. 12	666	182	37	328
Vehicles. Adjustable seat for	M. Guiet	354,860	Dec. 21	1755	464	37	1342
Vehicles. Apparatus for starting and propelling wheeled	L. Duhamel	335,062	Jan. 26	2184	580	34	424
Vehicles. Automatic brake for	G. McInroy	345,599	July 13	1141	292	36	211
Vehicles. Auxiliary seat for	S. M. B. Millard	336,785	Feb. 23	2421	637	34	893
Vehicles. Brake-shoe for	H. H. Thomas, N. F. and J. A. Howard.	339,949	Apr. 13	1219	303	35	224
Vehicles. Clip-coupling for	J. E. Tylee	345,460	July 13	922	232	36	171
Vehicles. Electrical propulsion of	F. J. Sprague	353,829	Dec. 7	248	66	37	1051
Vehicles. King-bolt for	W. F. Bidwell	343,428	June 8	970	242	35	1130
Vehicles. King-bolt for	T. A. McGovern	347,435	Aug. 17	1335	355	36	727
Vehicles. Runner for wheeled	J. W. Simmons	352,580	Nov. 16	1187	321	37	695
Vehicles. Safety-rail and rein-grip for	F. W. Kroeber	335,288	Feb. 2	286	75	34	491
Vehicles. Sleigh attachment for	T. Scott	343,610	June 15	1230	309	35	1244
Vehicles. Spring-clip for	J. H. Wiestner	343,879	June 15	1793	405	35	1310
Vehicles. Spring-coupling for	H. W. Pell	342,533	May 25	2186	579	35	934
Vehicles. Spring-gear for	H. W. Hamell	340,503	Apr. 20	2011	516	34	374
Vehicles. Spring-gear for	J. R. Walker	342,150	May 18	1616	433	35	825
Vehicles. Spring socket-iron for	H. M. Horne	349,098	Sept. 14	778	197	36	1193
Vehicles. Top for two-wheeled	F. Bex and E. F. Heunsch	349,079	Sept. 14	746	190	36	1187
Vehicles. Torsion-spring for	B. D. Shaw	352,071	Nov. 2	493	133	37	551
Velocimeter	R. J. McCarty	353,152	Nov. 23	1992	533, 534	37	856
Velocipede	A. H. Alldridge	336,372	Feb. 16	1852	486	34	783
Velocipede	H. Baines	351,150	Oct. 19	1501	393	37	287
Velocipede	H. Baines	351,243	Oct. 19	1623	426, 427	37	310
Velocipede	D. G. Biggs	343,753	June 15	1443	360	35	1281
Velocipede	D. Black	350,719	Oct. 12	876	235	37	167
Velocipede	R. G. Britton	353,917	Dec. 7	386	102	37	1077
Velocipede	E. S. Burbank	352,989	Nov. 23	1748	469	37	809
Velocipede	A. Burdess	355,253	Dec. 28	2328	612, 613	37	1464
Velocipede	C. E. Courtney	348,619	Sept. 7	120	34	36	1069
Velocipede	W. E. Crandall	350,723	Oct. 12	882	236	37	168
Velocipede	T. J. de Sabla	341,736	May 11	1062	282	35	713
Velocipede	J. C. Garrood	348,276	Aug. 31	2567	690	36	769
Velocipede	F. J. J. Gibbons	340,109	Apr. 20	1441	364	35	269
Velocipede	J. Gibbons and C. D. Meneely	353,935	Dec. 7	406	109, 110	37	1081
Velocipede	J. A. Griffiths	338,151	Mar. 16	1716	447, 448	34	1250
Velocipede	C. W. Hamshaw	348,325	Aug. 31	2632	709, 710	36	983
Velocipede	H. B. Hart	339,765	Apr. 13	981	242	35	179
Velocipede	A. Hoak	341,911	May 18	1299	347	35	766
Velocipede	T. Humber	352,090	Nov. 2	526	140	37	558

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Velocipede	T. B. Jeffery	335,590	Feb. 9	709	188	34	574
Velocipede	S. W. Jones	344,449	June 29	2385	614	35	1469
Velocipede	H. A. King	341,383	May 4	577	159, 160	35	610
Velocipede	H. A. King	349,800	Sept. 28	1743	449	36	1394
Velocipede	H. A. King	349,801	Sept. 28	1746	450	36	1394
Velocipede	H. A. King	349,802	Sept. 28	1748	450	36	1395
Velocipede	H. A. King	353,071	Nov. 23	1872	565	37	832
Velocipede	E. G. Latta	337,271	Mar. 2	520	136	34	1022
Velocipede	E. G. Latta	341,811	May 11	1159	309	35	732
Velocipede	E. G. Latta	343,959	June 15	1698	435	35	1331
Velocipede	E. G. Latta	346,292	July 27	2121	546	36	406
Velocipede	E. G. Latta	347,357	Aug. 17	1231	328	36	708
Velocipede	E. G. and A. C. Latta	339,436	Apr. 6	462	112	35	85
Velocipede	H. J. Lawson	345,851	July 20	1514	392	36	283
Velocipede	C. S. Leddell	342,915	June 1	193	50	35	1040
Velocipede	E. and J. Lhoest	352,698	Nov. 16	1356	366, 367	37	726
Velocipede	H. W. Libbey	351,872	Nov. 2	205	58	37	496
Velocipede	C. M. Linley and J. Biggs	354,642	Dec. 21	1459	386, 387	37	1285
Velocipede	J. C. Maret	346,667	Aug. 3	274	75, 76	36	514
Velocipede	S. Martin	339,446	Apr. 6	476	116, 117	35	89
Velocipede	S. Martin	340,340	Apr. 20	1783	456, 457	35	332
Velocipede	A. W. McClure	342,620	May 25	2311	610, 611	35	957
Velocipede	L. F. Mohr	354,649	Dec. 21	1467	389, 390	37	1287
Velocipede	S. W. Morgan	337,975	Mar. 16	1477	383	34	1204
Velocipede	E. C. F. Otto	352,885	Nov. 16	1598	431	37	773
Velocipede	T. N. Petersen	342,972	June 1	277	72	35	1056
Velocipede	W. Phillips	350,080	Sept. 28	2124	549	36	1468
Velocipede	H. M. Pope	354,840	Dec. 21	1729	458	37	1337
Velocipede	D. H. and L. H. Rice	348,057	Aug. 24	2245	600, 601	36	904
Velocipede	W. G. Rich	350,994	Oct. 19	1293	339, 340	37	249
Velocipede	W. G. Rich	350,995	Oct. 19	1295	340	37	249
Velocipede	G. W. Rodecap	354,656	Dec. 21	1478	392, 393	37	1289
Velocipede	C. T. Ryland, Jr.	342,467	May 25	2088	552	35	917
Velocipede	J. H. Schulze	342,934	June 1	227	58	35	1047
Velocipede	R. P. Scott	340,254	Apr. 20	1667	423	35	310
Velocipede	O. Unzicker	355,038	Dec. 28	2041	530	37	1400
Velocipede	A. Vick	346,078	July 20	1823	471	36	340
Velocipede	J. N. Waite	345,465	July 13	920	234	36	172
Velocipede	T. Zanger	352,503	Nov. 9	1086	292	37	669
Velocipede. Ice-	G. P. Hiler	351,771	Nov. 2	59	16	37	469
Velocipede. Ice-	A. Wacker	340,643	Apr. 27	2219	582	35	416
Velocipede journal-bearing	A. H. Bock	333,592	Jan. 5	130	35	34	26
Velocipede. One-wheeled	L. E. H. Spree	344,059	June 22	845	474	35	1364
Velocipede-pedal	J. Wood, Jr., and A. J. Philbrick	336,277	Feb. 16	1719	449	34	758
Velocipede. Railway-	A. W. Ingraham	352,952	Nov. 23	1694	455	37	799
Velocipede roller-bearing	J. K. Starley	353,330	Nov. 30	2238	599, 600	37	909
Velocipede-saddle	T. B. Jeffery	354,907	Dec. 28	1830	483	37	1367
Velocipede-saddle	A. H. Overman	343,841	June 15	1545	391	35	1301
Velocipede-sleigh	F. F. Foster	343,898	June 15	1616	411	35	1316
Velocipede-wheel	G. H. Day	344,442	June 29	2379	612	35	1468
Velocipede-wheel	J. Hudson	339,422	Apr. 6	444	108	35	83
Velocipede-wheel	J. Hudson	339,550	Apr. 6	648	157	35	117
Velocipede-wheel	E. C. F. Otto. (Reissue)	10,760	Aug. 24	2434	650	36	938
Velocipede-wheel	D. H. Rice	348,692	Sept. 7	223	59	36	1088
Velocipede-wheel	A. E. Wallace	334,829	Jan. 26	1872	498	34	368
Velocipede-wheel	N. M. Wilson	348,605	Sept. 7	100	29	36	1066
Velocipedes. Anti-friction bearing for	J. K. Starley	351,001	Oct. 19	1303	342	37	251
Velocipedes. Luggage-carrier for	J. A. Lamplugh	352,331	Nov. 9	876	236	37	627
Velocipedes. Pedal for	N. Merrill	351,880	Nov. 2	216	61	37	498
Velocipedes. Speed and power gearing for	C. M. Linley and J. Biggs	351,873	Nov. 2	206	58	37	497
Velocipedes. Treadle-motion for	E. P. Howe	344,529	June 29	2505	646	35	1489
Veneer	F. Mankey	351,116	Oct. 19	1455	381	37	279
Veneer. Manufacture of sheets of	L. Pine	348,051	Aug. 24	2237	.....	36	903
Veneers. Machine for cutting	E. Densmore	347,331	Aug. 17	1192	319	36	702
Veneers. Machine for drying	E. Densmore	347,330	Aug. 17	1191	319	36	701
Veneers. Making	F. Mankey	351,061	Oct. 19	1382	363	37	265
Veneering	C. W. Spurr	348,593	Sept. 7	84	24	36	1063
Veneering-machine	A. C. Johnson	352,131	Nov. 9	601	159, 160	37	578
Veneering with fabric	G. Muller	337,346	Mar. 2	621	.....	34	1041
Vent and pump. Air	J. F. Davis	339,384	Apr. 6	383	94	35	72
Vent. Barrel-	F. Hopkins	351,982	Nov. 2	369	100	37	527
Vent. Safety-	G. Schmidt	336,442	Feb. 16	1950	511	34	801
Venting and draft tube. Combined	G. E. Collins and A. J. Weatherhead	341,555	May 11	814	217	35	664
Ventilating apparatus	J. L. Brown	337,368	Mar. 9	650	172	34	1053
Ventilating apparatus	J. M. Garfield	349,491	Sept. 21	1311	341	36	1305
Ventilating apparatus for buildings	L. J. Wing	343,289	June 8	753	187	35	1152
Ventilating buildings	C. H. Griese	341,328	May 4	504	138, 139	35	596
Ventilating bulk-windows, stores, &c	T. T. Cohen	341,318	May 4	494	134	35	594
Ventilating mines. Apparatus for	L. L. Graves and J. Kangley	336,914	Mar. 2	48	13	34	935
Ventilating-motor	L. J. and J. T. Hope	347,709	Aug. 17	1747	465, 466	36	803

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ventilating-screen	G. Hayes	345,692	July 20	1285	333	36	244
Ventilating sewers	T. H. Donahue	347,096	Aug. 10	860	228	36	631
Ventilating sewers, drains, mines, hospitals, &c	R. S. Ash	355,116	Dec. 28	2124	558	37	1423
Ventilating stoke-holes, &c. Apparatus for	A. Laing	346,755	Aug. 3	376	102, 103, 104	36	534
Ventilator: *See* Air-ventilator. House-ventilator. Car-ventilator. Rotary ventilator. Equalizing-ventilator. Transom-ventilator. Window-ventilator. Hat-ventilator.							
Ventilator	P. R. Addoms	342,989	June 1	293	76	35	1060
Ventilator	H. P. Andrews	345,945	July 20	1642	423	36	308
Ventilator	W. M. Brinkerhoff	345,107	July 6	429	110	36	78
Ventilator	G. R. Buffham	349,782	Sept. 28	1721	444	36	1390
Ventilator	C. Cluthe	345,117	July 6	441	113, 114	36	81
Ventilator	R. De Logerot	334,571	Jan. 19	1529	409	34	296
Ventilator	J. Janka	351,603	Oct. 26	2186	564	37	418
Ventilator	D. T. McNiel and J. B. Carter	340,806	Apr. 27	2439	641	35	456
Ventilator	W. S. Sayers	338,304	Mar. 23	1920	505, 506	34	1295
Ventilator	B. Scarles	335,963	Feb. 9	1235	328	34	669
Ventilator	J. K. Sellars	340,624	Apr. 27	2186	575	35	411
Ventilator	M. H. Shanley	340,829	Apr. 27	2467	649	35	461
Ventilator and chimney-top	H. O. Herrmann	339,099	Mar. 30	3061	810	34	1501
Ventilator and heater	R. S. Owen	352,097	Nov. 2	533	142	37	559
Vermin-exterminator	F. E. Browne	338,629	Mar. 23	2366	623	34	1373
Vermin-exterminator	F. E. Browne	343,220	June 8	649	161	35	1138
Vermin-exterminator	A. A. Griffin	343,992	June 15	1623	414	35	1317
Vernier. Variable	J. T. Honeycutt	342,097	May 18	1556	416	35	813
Vessel	W. L. D. O'Grady	352,709	Nov. 16	1375	372	37	730
Vessel for domestic purposes. Metallic	T. Burkhard	341,794	May 11	1133	299	35	726
Vessel for transporting liquid cargoes in bulk	L. V. Sone	334,481	Jan. 19	1407	379	34	275
Vessel. Iron marine	R. A. Reed	349,857	Sept. 28	1823	471	36	1411
Vessel. Marine	R. A. Reed	348,587	Sept. 7	75	22	36	1061
Vessel-motor	T. Duffy	353,296	Nov. 30	2195	587	37	900
Vessel. Packing and storing	D. M. Somers	345,931	July 20	1622	418	36	304
Vessels against torpedo attacks. Apparatus for protecting	A. C. Koerner	338,241	Mar. 16	1833	479, 480, 481, 482	34	1273
Vessels. Anti-frictional chock or leader for rigging of	L. Dyer	341,838	May 11	1192	319	35	739
Vessels. Apparatus for loading	G. W. Price	350,501	Oct. 12	568	157	37	111
Vessels. Apparatus for loading	A. Smith	348,478	Aug. 31	2849	767	36	1025
Vessels. Apparatus for the hydropropulsion of	A. C. Nagel, R. H. Kaemp, and A. Linnenbrügge.	340,237	Apr. 20	1636	414	35	305
Vessels. Attaching armor-plates to	E. Tardy	344,218	June 22	2070	530	35	1405
Vessels. Bottom for	C. S. Müller	351,707	Oct. 26	2321	603	37	445
Vessels. Buoy attachment for	P. Micheletti	338,859	Mar. 30	2705	712	34	1440
Vessels. Center-board for	R. M. Fryer	351,831	Nov. 2	139	39	37	484
Vessels. Center-board for	A. L. Shears	352,490	Nov. 9	1069	287	37	666
Vessels. Construction of	C. M. Catlin	344,622	June 29	2625	680	35	1514
Vessels. Device for closing apertures in	J. Speirs	351,132	Oct. 19	1478	387	37	283
Vessels. Device for closing openings in the hulls of	J. Speirs	352,275	Nov. 9	805	215	37	613
Vessels. Device for stopping leaks in	D. Jarvis	349,719	Sept. 28	1630	420	36	1373
Vessels for carrying liquids in bulk. Construction of navigable	H. F. Swan	339,344	Apr. 6	331	83	35	62
Vessels. Former for sheet-metal	C. A. Wilbraham	352,019	Nov. 2	420	114	37	536
Vessels from sinking. System for preventing	J. A. Benninger	350,184	Oct. 5	122	34, 35	37	26
Vessels holding liquids. Automatic discharge for	T. Hyde	340,121	Apr. 20	1453	368	35	271
Vessels in dry-dock. Device for centering	A. Bulman	334,563	Jan. 19	1520	406	34	294
Vessels. Leak-stopper for	I. Meisler	353,800	Dec. 7	206	55	37	1045
Vessels. Lee-board for small	T. Clapham	346,643	Aug. 3	247	68	36	508
Vessels over obstructions. Apparatus for carrying	W. A. Gröndahl	350,242	Oct. 5	199	57	37	41
Vessels. Sheet-holder for marine	E. F. Enos	348,001	Aug. 24	2170	577	36	889
Vessels. Side and deck light for	W. H. Douglas	354,013	Dec. 7	529	144	37	1102
Vessels. Skeg attachment for	T. G. Edmondson	352,682	Nov. 16	1335	360	37	792
Vessels. Swinging paddle for	B. Doscher	354,566	Dec. 14	1243	333	37	1239
Veterinary incisor-cutter	E. P. Smith	341,956	May 18	1353	361	35	776
Veterinary molar-cutter	E. P. Smith	341,957	May 18	1353	362	35	776
Veterinary operating-table	M. L. Faling	353,057	Nov. 23	1858	502	37	828
Veterinary surgical instrument	C., W., and L. L. O'Dell	348,044	Aug. 24	2223	595	36	899
Veterinary table	L. C. Tiffany	350,646	Oct. 12	780	213	37	149
Vial and sample case	H. Fredericks	346,376	July 27	2101	541	36	403
Vibrating-cylinder engine	E. Andrews	354,762	Dec. 21	1632	432	37	1318
Vinegar apparatus	L. Friedman	344,097	June 22	1901	487	35	1374
Vinegar-generator	J. D. Murray	338,183	Mar. 16	1762	460	34	1259
Violin	G. A. Skugrud	345,454	July 13	916	230	36	170
Violin	M. W. White	350,962	Oct. 19	1214	322	37	235
Violin-bows. Device for securing	O. F. Harrington	337,059	Mar. 9	235	63	34	969
Violin-case	C. W. Reeves	348,055	Aug. 24	2241	599	36	903
Violin-case	H. B. Tuttle	344,508	June 29	2476	636	35	1484
Violin chin-rest	W. V. Arthur	351,952	Nov. 2	324	90	37	518
Violin tail-piece	J. R. Perry	336,428	Feb. 16	1930	506	34	798
Violin tuning-peg	J. K. Porter	338,296	Mar. 23	1909	503	34	1294
Vise	R. Beachman	351,151	Oct. 19	1563	393	37	288
Vise	M. Crawford	348,827	Sept. 7	383	104	36	1119
Vise	M. Crawford	348,828	Sept. 7	385	104	36	1119
Vise	J. Ernst	349,032	Sept. 14	680	175	36	1175
Vise	J. P. L. Halyburton	342,008	May 18	1416	378	35	786
Vise	J. O. Joyce	349,280	Sept. 14	1011	258	36	1238
Vise	A. Montant	343,187	June 8	603	150	35	1125

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Vise	A. Montant	347,365	Aug. 17	1242	331	36	710
Vise	A. Montant	347,366	Aug. 17	1244	331	36	710
Vise	W. H. Reyher	345,990	July 20	1706	439	36	319
Vise	J. J. Spilker	334,816	Jan. 26	1857	495	34	366
Vise	H. Wyman	340,930	Apr. 27	2598	685	35	484
Vise. Bench	P. Huntley	340,947	Apr. 27	2623	691	35	488
Vise-heads. Manufacture of	J. C. Herman	352,322	Nov. 9	866	233	37	625
Vise-jaw	E. Shaw	334,055	Jan. 12	777	213	34	152
Vise-jaws. Die for making	C. Konold	337,339	Mar. 2	613	161	34	1039
Vise-jaws. Machine for making	C. Konold	337,340	Mar. 2	614	161	34	1039
Vise, lathe, and drilling-machine. Combined	J. R. McMillan	350,760	Oct. 12	927	250	37	176
Vise. Pipe	G. H. Paine	346,496	Aug. 3	60	15	36	471
Vise. Pipe	A. L. Rose	334,615	Jan. 19	1589	423	34	308
Vise. Pipe and rod	J. G. Baker	342,992	June 1	299	77	35	1061
Vise. Pipe and rod	J. G. Baker	348,818	Sept. 7	372	100	36	1116
Vise. Saw-holding	S. Y. Kittle	342,698	May 25	2419	640	35	978
Vise. Work-bench	J. C. Lynch	345,244	July 6	612	155	36	111
Vitreous substance with metal parts embedded therein. Manufacture of articles made of moldable	A. Swan	339,822	Apr. 13	1048	260	35	192
Voltaic battery	A. F. W. Partz	347,440	Aug. 17	1355	361	36	730
Voltaic battery	A. F. W. Partz	353,757	Dec. 7	143	39	37	1033
Volt-ampère meter	L. Waldo	338,120	Mar. 16	1678	436	34	1242
Vote recording and indicating apparatus. Electrical	C. O. Yale, G. F. W. Holman, and W. J. Barnette.	338,009	Mar. 16	1528	396, 397	34	1213
Volumetric regulator	M. G. Wilder	352,594	Nov. 16	1207	327	37	699
Vulcanite from hair, &c. Producing solid compounds resembling	O. Lugo	343,590	June 15	1205	.....	35	1239
Vulcanites and producing the same	O. Lugo	343,591	June 15	1205	.....	35	1239
Vulcanized fabric from gums and ramie and similar fibers.	W. A. Torrey	354,993	Dec. 28	1947	.....	37	1390
Vulcanized fiber and like material. Manufacture of.	F. Taylor	350,401	Oct. 5	392	113	37	78
Vulcanized fiber and similar materials. Manufacture of	G. C. Lawrence	336,330	Feb. 16	1794	469	34	772
Vulcanized rubber die or stamp	G. J. B. Rodwell	349,664	Sept. 21	1529	395	36	1349
Vulcanizer	M. F. Carll	345,883	July 20	1557	402	36	292
Vulcanizer	J. Hood and S. H. Reynolds	341,243	May 4	381	105	35	575
Wagon	J. T. Burdick	346,398	July 27	2272	582, 583	36	435
Wagon	M. Conrad	334,350	Jan. 12	1224	330	34	235
Wagon	A. H. and E. W. Fancher	350,925	Oct. 19	1163	309	37	226
Wagon	C. Hotz	334,385	Jan. 12	1260	340	34	241
Wagon	C. Hotz and M. Conrad	339,416	Apr. 6	436	107	35	81
Wagon	J. H. Whiting	339,959	Apr. 13	1231	306	35	226
Wagon-bed	A. Crawford	341,890	May 18	1271	340	35	761
Wagon-bed stay	J. R. Wharry	342,660	May 25	2359	623	35	967
Wagon-bodies. Angular corner for	J. F. Roeking	343,067	June 1	412	105	35	1081
Wagon-bodies. Device for handling	W. H. Freeland	348,274	Aug. 31	2565	689	36	969
Wagon-body	E. S. Davis	345,577	July 13	1113	285	36	206
Wagon-body	P. A. McVicar	334,271	Jan. 12	1116	299	34	215
Wagon-body lifter	S. Mütti	335,233	Feb. 2	214	55	34	478
Wagon-bolster	J. M. McNees	343,837	June 15	1536	389	35	1300
Wagon bolster-spring	E. Cliff	346,725	Aug. 3	347	94	36	529
Wagon-box	H. Jacobs	335,359	Feb. 2	384	99	34	510
Wagon-box	S. V. Kelly	345,975	July 20	1683	433	36	315
Wagon-box brace	M. F. Allen	340,751	Apr. 27	2366	623	35	442
Wagon-box elevator and dump	W. Scarborough	342,880	June 1	150	38	35	1033
Wagon-brake	E. M. Allen	346,698	Aug. 3	312	86	36	522
Wagon-brake	G. B. Althouse	342,241	May 18	1731	460	35	846
Wagon-brake	J. W. A. and M. Beaird	348,714	Sept. 7	248	66	36	1093
Wagon-brake	W. Beckert	340,544	Apr. 27	2073	535	35	393
Wagon-brake	G. W. Cary	346,723	Aug. 3	343	93	36	528
Wagon-brake	G. Denny	343,895	June 15	1612	411	35	1315
Wagon-brake	H. Hebert	353,559	Nov. 30	2580	690	37	974
Wagon-brake	E. Hubbell	343,537	June 8	1119	282	35	1217
Wagon-brake	A. Keever and F. Remy	343,639	June 15	1268	319	35	1251
Wagon-brake	A. Keever and F. Remy	353,685	Dec. 7	46	12	37	1015
Wagon-brake	R. E. McClelland	336,127	Feb. 16	1475	389	34	718
Wagon-brake	J. Pickersgill	341,685	May 11	1002	265	35	701
Wagon-brake	F. Ulrich	340,173	Apr. 20	1545	390	35	287
Wagon-brake	T. R. Wheeler	354,756	Dec. 21	1622	429	37	1315
Wagon-brake. Automatic	J. A. Dickson	346,196	July 27	1986	513	36	381
Wagon-brake. Automatic	S. E. Ferguson	347,872	Aug. 24	1983	526	36	855
Wagon-brake lever	C. F. Moore	337,974	Mar. 16	1476	383	34	1204
Wagon-brake lever	T. Urie	342,719	May 25	2453	650	35	984
Wagon-brake lock	W. Moore	342,121	May 18	1585	423	35	819
Wagon. Buckboard	J. A. Burden	344,895	July 6	142	35, 36	36	26
Wagon. Buckboard	E. H. Rousseau	355,215	Dec. 28	2267	597	37	1452
Wagon chair and walker for babies. Combined	I. C. Price	342,927	June 1	216	55	35	1044
Wagon circle-iron	N. L. Holmes	337,404	Mar. 9	703	184	34	1062
Wagon-coupling	B. L. Farquhar	339,395	Apr. 6	403	98	35	75
Wagon. Covered delivery	J. T. McLaughlin	353,365	Nov. 30	2288	611	37	918
Wagon. Delivery	T. Dissett	334,759	Jan. 26	1789	475	34	353
Wagon. Delivery	H. C. Ohlsen, Sr	333,776	Jan. 5	382	104, 105	34	72
Wagon draw-iron	E. H. Gibbs	337,393	Mar. 9	688	179	34	1059
Wagon. Dump	A. Helfrich	344,378	June 29	2295	591	35	1453
Wagon. Dumping	A. C. Ames	351,017	Oct. 19	1323	347	37	255
Wagon. Dumping	L. O. Bennett	334,633	Jan. 19	1615	430	34	313
Wagon. Dumping	R. H. Branch	337,476	Mar. 9	829	210	34	1081
Wagon. Dumping	H. C. Conkle	343,011	June 1	322	82	35	1065
Wagon. Dumping	J. A. De Waudelaer	345,775	July 20	1410	365	36	266
Wagon. Dumping	J. W. Dunham, F. P. and G. W. Kisinger.	340,494	Apr. 20	1995	513	35	371
Wagon. Dumping	J. H. Ferguson	333,844	Jan. 5	476	129	34	88

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Wagon. Dumping	R. A. McCauley	341,592	May 11	865	230	35	674
Wagon. Dumping	S. H. Nott	335,614	Feb. 9	741	197	34	580
Wagon. Dumping	A. C. Vankirk	339,604	Apr. 6	743	183	35	131
Wagon end-gate	J. R. Davis	352,860	Nov. 16	1561	421	37	765
Wagon end-gate	J. A. Reed	352,201	Nov. 9	708	189	37	596
Wagon-gear	E. E. Hatheway	348,846	Sept. 7	408	111	36	1123
Wagon gear. Platform spring	W. L. Rayment	349,743	Sept. 28	1667	430	36	1390
Wagon-gearing	P. J. Richter	338,876	Mar. 30	2732	719	34	1444
Wagon-gearing	P. J. Richter	345,321	July 13	726	183	36	137
Wagon-jack	W. T. Easterday	342,953	June 1	254	65	35	1052
Wagon-jack	C. Springer	339,590	Apr. 6	727	179	35	127
Wagon-jack	W. N. Springer	334,057	Jan. 12	779	213	34	153
Wagon-jack	J. J. Williams	338,626	Mar. 23	2363	622	34	1372
Wagon-jack	J. A. Zaiss	349,194	Sept. 14	901	231	36	1217
Wagon. Log	W. H. Moyers	347,729	Aug. 17	1772	473	36	908
Wagon. Piano	J. D. Lindsley	341,154	May 4	251	74	35	551
Wagon-rack	H. G. T. Glazebrook	355,262	Dec. 28	2339	615 616	37	1466
Wagon-reach	F. Selle	346,325	July 27	2173	557 558	36	416
Wagon-reaches. Anti-friction roller for	J. Q. Grant	349,644	Sept. 21	1504	390	36	1344
Wagon. Road	C. E. Albright	346,341	July 27	2189	562	36	419
Wagon running-gear	H. Bensmann	345,661	July 20	1246	323	36	237
Wagon running-gear	R. C. Blackwell. (Reissue)	10,784	Nov. 23	2166	579	37	890
Wagon running-gear	G. Delker	343,114	June 7	492	124	35	1095
Wagon running-gear	E. A. Hill	346,284	July 27	2113	543	36	405
Wagon running-gear	E. E. Whipple	340,647	Apr. 27	2223	583	35	417
Wagon running-gear	J. H. Whiting	345,201	July 6	552	141	36	101
Wagon-seat	J. W. Bunch	355,058	Dec. 28	2041	536	37	1406
Wagon-seat	J. L. Hughes	337,063	Mar. 2	239	64	34	969
Wagon-seat and feed-trough. Combined	L. Johnson	348,974	Sept. 14	597	158	36	1162
Wagon-seat lock	D. D. Whitney	352,384	Nov. 9	942	252	37	641
Wagon-seat spring	F. F. Fowler	334,425	Jan. 19	1327	359	34	260
Wagon shoveling-board	C. E. Duryea	343,517	June 8	1094	274	35	1212
Wagon shoveling-board	C. E. Duryea	344,259	June 22	2124	543	35	1414
Wagon. Side-bar	E. W. Fancher	341,229	May 4	367	101	35	572
Wagon-slide. Anti-friction	G. R. Jewell	346,373	July 27	2234	573	36	438
Wagon-spring	W. Blume	340,757	Apr. 27	2377	626	35	444
Wagon-spring	W. S. Hazgard	354,548	Dec. 21	1309	348	37	1259
Wagon-spring	H. Metcalfe	345,162	July 6	502	128	36	91
Wagon spring-board	J. K. P. Pine	341,051	May 4	106	31	35	524
Wagon-stake	J. M. Deitz	339,976	Apr. 13	1253	312	35	229
Wagon-stake	E. M. Foreman	336,847	Feb. 23	2301	659	34	907
Wagon-stake	N. L. Holmes	343,273	June 8	728	181	35	1147
Wagon-stake	A. Lindell	343,960	June 15	1701	436	35	1332
Wagon-stake pocket	H. H. Bothe	351,246	Oct. 19	1628	427	37	311
Wagon-standard	L. L. Welsh	353,836	Dec. 7	260	70	37	1054
Wagon. Stock	W. E. George and H. Horney	338,508	Mar. 23	2398	579	34	1346
Wagon-train. Self-propelling	J. B. Osborne	352,346	Nov. 9	898	240	37	631
Wagon-wheel	A. C. Hall	353,744	Dec. 7	128	36	37	1030
Wagons. Combination-rack for	M. Rice	344,751	June 29	2791	722 723	35	1544
Wagons. Tail-board fastening for	T. Faulder	346,366	July 27	2224	571	36	426
Wagons. Transom-plate for	J. Wachholz and W. Behrens	341,707	May 11	1030	272 273	35	707
Waist. Jersey	D. F. Halsted	339,406	Apr. 6	418	103	35	78
Waist. Jersey	D. F. Halsted	339,407	Apr. 6	419	103	35	78
Waistbands for garments. Making	C. W. Wheeler	353,392	Nov. 30	2326	622	37	926
Waistbands. Making	H. Wirths	352,967	Nov. 23	1716	460	37	803
Walking-stick and brush. Combined	W. E. Coster	342,012	June 1	323	83	35	1065
Wall and ceiling. Fire-proof	J. Smith	345,001	July 6	298	74	36	54
Wall and other papers. Ornamenting	W. V. Wilson	340,026	Apr. 13	1330	.....	35	243
Wall-bracket. Pneumatic	W. Lang	355,021	Dec. 28	1986	523	37	1396
Wall-covering. Ornamental	J. H. Campbell	333,727	Jan. 5	320	88	34	60
Wall decoration and other purposes. Fabric for	T. Strahan	345,191	July 6	540	.....	36	99
Wall-hangings, &c. Decorating	W. Sochefsky	339,299	Jan. 12	1154	.....	34	222
Wall-paper	W. Campbell	351,962	Nov. 2	339	93	37	521
Wall-paper and other fabric	L. Baer and D. Kraemer	346,257	July 27	2079	534	36	399
Wall-paper. Bundling	F. E. Clark	335,684	Feb. 9	835	222	34	597
Wall-paper-exhibiting device	C. J. Mitchell	348,764	Sept. 7	310	83	36	1105
Wall-paper. Machine for trimming	J. H. Miltimore and H. M. Underwood.	346,307	July 27	2141	551 552	36	410
Wall-paper. Manufacturing	S. E. Trout	335,725	Feb. 9	900	.....	34	608
Wall-paper. Manufacturing	W. Wilson	335,264	Feb. 2	253	67	34	485
Wall-paper, shades, &c. Rack for holding and exhibiting	W. H. Hazzard	354,058	Dec. 7	590	160 161	37	1113
Wall-papers, borders, and ceiling decorations. Exhibitor for	L. A. Ely	355,067	Dec. 28	2053	539	37	1408
Wall-protector for steam-coils	R. B. Miller	334,794	Jan. 26	1831	488	34	361
Wall, roof, partition, &c	W. H. Johnson	344,381	June 29	2300	592 593	35	1453
Walls and other surfaces. Material for decorating	M. Conrath	350,480	Oct. 12	537	.....	37	107
Walls. Compound for coating and finishing	E. A. Bronson	346,143	July 27	1917	.....	36	367
Walls. Compound for protecting	F. M. Ruschhaupt	350,083	Sept. 28	2127	.....	36	1468
Walls. Mold and angle-piece used in constructing concrete	T. W. Carrico	340,070	Apr. 13	1388	348 349	35	254
Walls. Ornamenting fabrics for covering	F. Mencke	333,881	Jan. 5	524	.....	34	98
Walls. Tool for finishing joints of brick	A. E. Cross	352,082	Nov. 2	509	137	37	555
Wardrobe and book-case. Combined	J. F. Schmidt	353,382	Nov. 30	2312	618	37	923
Wardrobe and lounge. Combined	G. L. Baar	339,516	Apr. 6	580	140	35	106
Wardrobe attachment	M. H. Cazier	347,687	Aug. 17	1716	458	36	798
Wardrobe. Portable	C. W. Banks	346,346	July 27	2197	563	36	420
Wardrobe. Portable	C. A. Glidden	351,860	Nov. 2	191	53, 54	37	494
Wardrobe. Portable	P. C. Johnson	352,994	Nov. 23	1754	470	37	810

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Wardrobe. Portable folding	C. K. Waring	347,308	Aug. 10	1157	310	36	686
Wardrobes and closets. Clothes-hanging device for	A. L. Reunekamp	345,921	July 20	1609	415	36	302
Warehouse. Fire-proof portable corrugated	A. W. Schulenburg	346,071	July 20	1815	469	36	339
Warm-air furnace	W. H. Turner	349,825	Sept. 28	1781	460	36	1402
Warming apparatus. Portable	A. E. Bailey	352,386	Nov. 9	945	253	37	642
Warp-threads. Machine for drawing in	L. P. Sherman	355,221	Dec. 28	2273	599, 600, 601	37	1453
Warps. Machine for coiling	J. Eccles	349,148	Sept. 14	841	214, 215	36	1205
Warps. Machine for washing, dyeing, or sizing	F. Turnbull	351,946	Nov. 2	316	88	37	516
Warping and beaming machine. Sectional	J. C. Sewell, E. Hulton, and J. Bethel	335,636	Feb. 9	770	204	34	585
Warping, beaming, and other machines. Creel for	F. H. Patrick	350,553	Oct. 12	633	174	37	122
Warping, beaming, and other machines. Drop-wire box for	T. C. Entwistle	344,365	June 29	2277	586	35	1449
Warping, beaming, and other machines. Expansion-comb for	T. C. Entwistle	343,801	June 15	1498	377	35	1292
Warping-machine	T. Clay	338,713	Mar. 30	2499	661, 662	34	1402
Warping-machine	T. C. Entwistle	336,477	Feb. 16	1996	523	34	809
Warping-machine	A. E. Kingsley	342,210	May 18	1668	450	35	838
Warping machine. Compression-roller for wire-	O. S. Lee	352,138	Nov. 9	612	162	37	580
Warping-machines. Device for supporting the drop-rolls of	G. E. Dexter and E. J. Patterson	336,301	Feb. 16	1762	461	34	765
Warping-machines. Stop mechanism for	G. S. Follansbee	343,119	June 1	496	126	35	1096
Warping-machines. Stop-motion for	C. Dean	338,042	Mar. 16	1571	409	34	1221
Warping-mills. Creel-frame for	F. H. Patrick	339,684	Apr. 13	869	213	35	159
Warping or beaming machines. Creel for	C. H. Howard	349,100	Sept. 14	781	198	36	1193
Wash-basins, &c. Clamp for	P. Connolly	347,921	Aug. 24	2054	545	36	868
Wash-bench	G. J. Cline	335,057	Jan. 26	2176	578	34	422
Wash-bench. Folding	M. H. Sly and P. F. Wood	352,369	Nov. 9	921	247	37	637
Wash-board	E. Ellingen	354,113	Dec. 14	677	182	37	1138
Wash-board	C. Everts	341,465	May 11	696	186	35	641
Wash-board	G. P. Fuller	336,910	Mar. 2	40	10	34	934
Wash-board	D. J. George	346,991	Aug. 10	695	184	36	602
Wash-board	B. B. Havens	341,236	May 4	374	103	35	574
Wash-board	J. S. Johnston	351,866	Nov. 2	199	56	37	495
Wash-board	J. M. Petree	350,015	Sept. 28	2034	525	36	1450
Wash-board	E. L. Pridham	337,349	Mar. 2	625	164	34	1041
Wash-board	C. L. Travis	335,977	Feb. 9	1254	333	34	672
Wash-board	C. W. Wells	336,186	Feb. 16	1577	414	34	734
Wash-board	J. W. Williams and I. H. Eddy	335,868	Feb. 9	1100	291	34	646
Wash-board	J. W. Williams and I. H. Eddy	335,869	Feb. 9	1101	291	34	646
Wash-board holder	B. N. Merrill	337,601	Mar. 9	982	252	34	1109
Wash-board plate	J. H. and O. T. Lapham	339,667	Apr. 13	838	206	35	154
Wash-board protector	E. E. Alderman	350,283	Oct. 5	249	72	37	52
Wash-board protector	C. J. Bonsfield	353,283	Nov. 30	2172	582	37	898
Wash-board rubber	C. Hood	337,834	Mar. 16	1282	332	34	1169
Wash-boiler	G. Bergenheim	334,736	Jan. 26	1758	468, 469	34	347
Wash-boiler	W. B. Cluny	339,858	Apr. 13	1099	274	35	202
Wash-boiler	H. S. Fountain	350,356	Oct. 5	340	97	37	69
Wash-boiler	H. C. Payne	354,212	Dec. 14	831	220	37	1166
Wash-boiler. Steam	G. S. Hurd, N. B. Stanza, and W. A. Woodson	344,782	June 29	2836	734	35	1552
Wash-bowls and bath-tubs. Automatic plug for	B. F. Smith	347,390	Aug. 17	1280	341	36	717
Wash-bowls, water-closets, &c. Drain-pipe connection for	W. D. Schuyler	337,445	Mar. 9	789	201	34	1075
Wash-line and clamp	W. Timermann	351,224	Oct. 19	1599	420	37	306
Wash-stand and commode	J. Penney	347,193	Aug. 10	993	265	36	656
Wash-stand and table. Combined	L. P. Ross	338,646	Mar. 23	2389	629, 630	34	1377
Wash-tub seat	C. H. Kelley	337,001	Mar. 2	162	43	34	954
Wash-tub stand	H. Geisler	343,023	June 1	336	86	35	1068
Washer: *See* Axle-washer. Bottle-washer. Clothes-washer. Dish-washer. Floor-washer. Ore-washer. Photographic-print washer. Slate-washer. Tumbler-washer. Wool-washer.							
Washer. Adhesive re-enforce	F. A. Dalpé	335,569	Feb. 9	675	177	34	568
Washer or gasket cutter	J. Leuenberger	352,139	Nov. 9	613	162	37	580
Washers. Manufacture of	C. T. Grilley	338,347	Mar. 23	1981	522	34	1306
Washing and bleaching machine	S. Toney	340,900	Apr. 27	2562	674, 675	35	477
Washing and dyeing fabrics. Apparatus for	J. Farmer and A. Lalance	345,492	July 13	965	245	36	179
Washing and wringing machine. Combined	E. C. Stanbrough	339,230	Apr. 6	162	43	35	31
Washing apparatus	E. W. Allen	335,413	Feb. 2	456	118	34	523
Washing clothes, &c. Machine for	J. H. Anthoine and F. H. Thorndike	338,331	Mar. 23	1959	515	34	1300
Washing-machine	D. J. Allen	341,306	May 4	477	129	35	591
Washing-machine	E. E. Allison	340,272	Apr. 20	1691	431	35	314
Washing-machine	A. Arbogast and W. Hains	334,555	Jan. 19	1509	404	34	292
Washing-machine	L. T. Arthur	336,617	Feb. 23	2192	572	34	849
Washing-machine	L. Baldauf	335,735	Feb. 9	916	241	34	612
Washing-machine	J. Barr	336,281	Feb. 16	1727	451, 452	34	759
Washing-machine	J. B. Bell	335,880	Feb. 9	1123	297	34	649
Washing-machine	A. J. Biglow	344,237	June 22	2096	535	35	1469
Washing-machine	D. Blakeslee	354,529	Dec. 21	1279	341	37	1253
Washing-machine	A. G. Brown	350,055	Sept. 28	2054	530, 531	36	1454
Washing-machine	P. Bulger	352,443	Nov. 9	1014	273, 274	37	656

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Washing-machine	W. V. Burgess	348,543	Sept. 7	4	1	36	1049
Washing-machine	J. W. Case	340,418	Apr. 20	1886	484	35	351
Washing-machine	E. K. Clark	352,734	Nov. 16	1401	379	37	736
Washing-machine	L. Cline	338,714	Mar. 30	2502	662	34	1409
Washing-machine	D. G. Colbert	337,046	Mar. 2	221	58	34	962
Washing-machine	S. W. Cook	355,061	Dec. 28	2044	537	37	1407
Washing-machine	S. Danielson	333,610	Jan. 5	148	40	34	30
Washing-machine	L. F. De Voe	341,836	May 11	1190	318	35	738
Washing-machine	C. F. Decker	336,299	Feb. 16	1760	460	34	746
Washing-machine	E. W. Dixon	337,136	Mar. 2	341	89	34	983
Washing-machine	F. Dodd	350,873	Oct. 12	1094	292	37	206
Washing-machine	W. M. Egan	347,780	Aug. 24	1847	492	36	830
Washing-machine	H. E. Fogle	351,170	Oct. 19	1525	399, 400	37	292
Washing-machine	D. D. Fredericks	337,144	Mar. 2	350	91	34	996
Washing-machine	D. W. George	350,735	Oct. 12	896	240	37	170
Washing-machine	W. Goforth	336,480	Feb. 16	2002	524	34	810
Washing-machine	W. G. Gooch and J. Olsen	346,473	Aug. 3	33	8	36	467
Washing-machine	J. E. Gray	334,702	Jan. 19	1709	456	34	330
Washing-machine	I. M. Groff	337,950	Mar. 16	1446	375	34	1199
Washing-machine	H. M. Hardgrove	354,134	Dec. 14	714	192	37	1144
Washing-machine	J. S. Headen	338,840	Mar. 30	2681	706	34	1435
Washing-machine	S. W. Higgins	338,524	Mar. 23	2225	583	34	1349
Washing-machine	A. Irmler	339,780	Apr. 13	1000	246	35	183
Washing-machine	and H. Joel	354,062	Dec. 7	598	164	37	1115
Washing-machine	H. Kramer	350,685	Oct. 12	835	225	37	158
Washing-machine	J. La River	353,073	Nov. 23	1874	506	37	832
Washing-machine	I. H. Laubach	353,074	Nov. 23	1875	506	37	832
Washing-machine	W. V. Lawlor	339,065	Mar. 30	3007	795	34	1492
Washing-machine	A. Lüttinger	339,107	Mar. 30	3071	813	34	1503
Washing-machine	A. Malcolm	336,936	Mar. 2	65	17, 18	34	958
Washing-machine	B. A. Manring and R. E. Gibbons	334,596	Jan. 19	1559	416	34	303
Washing-machine	E. L. Mantor	341,258	May 4	403	111	35	579
Washing-machine	T. Martin	334,598	Jan. 19	1561	417	34	303
Washing-machine	N. Massicotte	340,590	Apr. 27	2146	553	35	404
Washing-machine	B. F. Mathews	351,062	Oct. 19	1383	363	37	265
Washing-machine	C. C. Maxwell	335,945	Feb. 9	1214	323	34	665
Washing-machine	J. McBride	337,603	Mar. 9	983	252	34	1110
Washing-machine	E. S. McCallister and W. Hoagland	350,758	Oct. 12	923	249	37	175
Washing-machine	J. McClure	338,671	Mar. 23	2427	640	34	1383
Washing-machine	L. M. S. Miller	336,338	Feb. 16	1809	474	34	775
Washing-machine	J. H. Mitchell	339,004	Mar. 30	2924	774, 775	34	1478
Washing-machine	M. F. Mitchel	351,993	Nov. 2	389	105	37	531
Washing-machine	G. Mowry	349,314	Sept. 21	1048	268	36	1254
Washing-machine	J. W. Overman	336,059	Feb. 9	1370	362	34	692
Washing-machine	S. C. Parker	339,805	Apr. 13	1028	255	35	188
Washing-machine	S. W. Parsons	333,778	Jan. 5	384	105	34	73
Washing-machine	D. L. Perry	333,886	Jan. 5	530	144	34	99
Washing-machine	J. C. Peters	337,700	Mar. 9	1103	284	34	1130
Washing-machine	T. Phillips	333,666	Jan. 5	221	60	34	43
Washing-machine	J. F. Pinkerton	342,034	May 18	1456	389	35	794
Washing-machine	S. T. Potter	352,711	Nov. 16	1377	372	37	730
Washing-machine	W. B Reaves	348,776	Sept. 7	3323	86	36	1108
Washing-machine	F. E. Richardson	338,442	Mar. 23	2120	554	34	1330
Washing-machine	J. W. Ricker	349,747	Sept. 28	1672	431	36	1381
Washing-machine	B. and J. A. Ringo	350,561	Oct. 12	647	177	37	124
Washing-machine	J. Robinson	341,692	May 11	1013	267, 268	35	704
Washing-machine	W. Scott	351,072	Oct. 19	1394	366	37	267
Washing-machine	O. J. Smith	333,559	Jan. 5	80	33	34	17
Washing-machine	M. F. E. Stadtmueller	351,289	Oct. 19	1684	442	37	320
Washing-machine	A. Stuart, Jr	354,948	Dec. 28	1891	498	37	1379
Washing-machine	G. H. Thompson and W. H. Rothermel	340,168	Apr. 20	1531	387, 388	35	285
Washing-machine	W. H. T. Tomlin	351,298	Oct. 19	1699	445	37	323
Washing-machine	S. M. Walcher	350,175	Oct. 5	111	31, 32	37	23
Washing-machine	E. C. Weber	344,700	June 29	2719	706, 707	35	1532
Washing-machine	R. B. Wilkinson	351,237	Oct. 19	1615	423, 424	37	309
Washing-machine	V. L. Williams	346,629	Aug. 3	231	63	36	505
Washing-machine. Cylinder	H. F. Moeller	335,710	Feb. 9	879	231	34	604
Washing-machine. Pounder	D. C. Jordan	347,716	Aug. 17	1756	468	36	805
Washing-machine. Steam	W. Price	350,500	Oct. 12	565	156	37	110
Washing-machines and churns. Motor for	T. J. St. John	345,654	July 13	1231	318	36	237
Washing-machines. Lid and beater mechanism for	D. G. Benner	349,682	Sept. 28	1559	404	36	1362
Waste-pipe trap	G. Veale, Jr	354,075	Dec. 7	612	168	37	1118
Waste-pipes and traps. Air-inlet and seal for	E. S. McClellan	339,800	Apr. 13	1023	253	35	187
Wasteway and drain for ponds. Combined	R. M. Dill	337,819	Mar. 16	1263	327	34	1165
Watch	A. Benoit	338,385	Mar. 23	2040	535	34	1316
Watch	A. D. Bingham	340,854	Apr. 27	2497	657, 658	35	466
Watch	F. R. Cutter	341,095	May 4	163	48	35	535
Watch	D. T. Garcia	349,880	Sept. 28	1850	478	36	1416
Watch	C. G. Schellenberger	352,935	Nov. 23	1670	448, 449	37	795
Watch	G. Thommen	347,139	Aug. 10	920	245, 246	36	642
Watch-balance	G. E. Hart	352,819	Nov. 16	1511	407	37	755
Watch-balances and hair-springs. Device for testing	A. L. Keller	353,418	Nov. 30	2370	631	37	934
Watch-balances. Manufacture of	G. E. Hunter	347,271	Aug. 10	1097	293	36	675
Watch-barrel	S. T. J. Byam	340,936	Apr. 27	2607	687	35	486
Watch. Calendar	G. Blanchard	340,855	Apr. 27	2499	658	35	467

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Pages.
Watch-case	M. W. Evans	343,576	June 15	1189	299	35	1236
Watch-case	A. Grandjean	348,202	Aug. 31	2467	662 663	36	951
Watch-case	A. J. Hugle	338,271	Mar. 23	1873	493	34	1287
Watch-case	F. Mayr	339,450	Apr. 6	486	118	35	90
Watch-case	C. F. Morrill	347,252	Aug. 10	1070	287	36	670
Watch-case	D. O'Hara	340,814	Apr. 27	2448	644	35	458
Watch-case	D. O'Hara	353,706	Dec. 7	77	31	37	1020
Watch-case	D. O'Hara	353,961	Dec. 7	451	123	37	1089
Watch-case center	W. H. Fitz Gerald	353,933	Dec. 7	404	108	37	1081
Watch-case centers. Manufacture of	W. H. Fitz Gerald	353,930	Dec. 7	400	106 107	37	1080
Watch-case hinge	O. A. Drinkwater	344,727	June 29	2756	714	35	1538
Watch-case hinge	F. Rapp	344,859	July 6	91	24	36	17
Watch-case pendant	D. H. Church	347,994	Aug. 24	2159	575	36	887
Watch-case pendant	B. F. Hope	335,455	Feb. 2	510	133	34	533
Watch-case pendant	C. Kistler	338,753	Mar. 30	2561	677	34	1413
Watch-case pendant and bow	T. Robin	340,366	Apr. 20	1828	468	35	340
Watch-case rings. Machine for making	E. Keller	353,758	Jan. 5	361	97, 98	34	67
Watch-case spring	A. L. Blankenmeister	337,365	Mar. 9	648	171	34	1053
Watch-case spring	H. F. Cook	339,860	Apr. 13	1102	275	35	202
Watch-case spring	C. Doerflinger	333,840	Jan. 5	471	128	34	87
Watch-case spring	W. Fowler	345,226	July 6	585	149	36	106
Watch-case spring	R. L. Stafft	345,192	July 6	541	138	36	99
Watch-case stem	W. H. Fitz Gerald	338,503	Mar. 23	2203	577	34	1345
Watch-case stems. Die for making	W. H. Fitz Gerald	338,501	Mar. 23	2201	576 577	34	1345
Watch-case stems. Die for making	W. H. Fitz Gerald	338,502	Mar. 23	2202	577	34	1345
Watch-case stems. Making	W. H. Fitz Gerald	338,500	Mar. 23	2200	575 576	34	1345
Watch-cases. Manufacture of	W. H. Fitz Gerald	353,932	Dec. 7	403	108	37	1081
Watch-cases. Manufacture of crowns for	W. H. Fitz Gerald	353,929	Dec. 7	398	105 106	37	1080
Watch-cases. Manufacture of crowns for	W. H. Fitz Gerald	353,931	Dec. 7	401	107	37	1080
Watch-chain swivel	W. F. Whiting	337,908	Mar. 16	1375	357	34	1186
Watch-chain swivel and watch-protector. Combined	J. T. Healy	345,783	July 20	1420	368	36	268
Watch-crown cores. Device for capping	A. C. Dalzell	355,144	Dec. 28	2165	571	37	1431
Watch-crowns. Manufacture of	A. C. Dalzell	348,620	Sept. 7	122	35	36	1070
Watch-crowns. Manufacture of	E. L. Smith and E. A. Hitchcock	335,846	Feb. 9	1073	283	34	640
Watch-crowns. Manufacture of	C. H. Yarrington	351,085	Oct. 19	1415	371	37	271
Watch-dial	G. Hunter	340,044	Apr. 13	1358	340	35	248
Watch-dial	G. Hunter	340,045	Apr. 13	1358	340	35	248
Watch-dial	G. Hunter	340,507	Apr. 20	2018	517	35	375
Watch-dial	G. Hunter	340,508	Apr. 20	2019	518	35	375
Watch-dial wheel	G. E. Hart	345,589	July 13	1129	288	36	208
Watch-dials. Machine for spacing	F. B. Perkins	339,922	Apr. 13	1184	294	35	218
Watch-escapements. Device for heading steady-pins of	G. E. Hunter	345,635	July 13	1195	308 309	36	221
Watch-escapements. Machine for driving and cutting steady-pins for	G. E. Hunter	345,634	July 13	1192	306 307 308	36	220
Watch-key	M. W. Geary	339,875	Apr. 13	1121	279	35	206
Watch-makers. Bushing-punch for	F. Goeggel	341,652	May 11	946	250	35	690
Watch-maker's eyeglass	J. R. Lawrence	350,005	Sept. 28	2018	521	36	1447
Watch-makers. Mainspring-winder for	P. Ziegel	349,291	Sept. 14	1022	261	36	1241
Watch-maker's oil-cabinet	E. Hibarger	346,201	July 27	1995	514	36	382
Watch-maker's screw-driver	C. H. Lucas	341,812	May 11	1161	310	35	733
Watch-movement	P. Conver	334,749	Jan. 26	1777	473	34	351
Watch-movement	G. Hunter	347,272	Aug. 10	1098	294	36	675
Watch-movement holder	M. J. Lamperti	351,871	Nov. 2	204	57	37	496
Watch-movement holder	C. Teske	345,815	July 20	1463	378	36	275
Watch-movement packing-box	C. H. Smith	339,943	Apr. 13	1210	304	35	222
Watch. Musical	E. N. Gaillard	346,812	Aug. 3	439	128	36	545
Watch pendant and bow	L. J. Villerot	340,467	Apr. 20	1956	502	35	364
Watch-pendant bow	J. R. Hare	351,977	Nov. 2	362	99	37	526
Watch-pendant key	D. Nettekoven	352,257	Nov. 9	779	208 209	37	609
Watch-plate	A. Troller	350,903	Oct. 12	1137	302	37	215
Watch-pouch	M. Dooley	342,952	June 1	254	65	35	1052
Watch-protector. Rubber	G. B. Gardner	341,647	May 11	940	249	35	689
Watch-regulator	N. J. Eddy	342,864	June 1	125	31	35	1029
Watch-regulator	J. C. Levasseur	355,093	Dec. 28	2096	550	37	1417
Watch-regulator	W. W. Owen	336,060	Feb. 9	1370	362	34	692
Watch-regulator	G. L. Tuttle	336,360	Feb. 16	1858	482	34	780
Watch-regulator	P. H. Wheeler	354,283	Dec. 14	946	249	37	1184
Watch-springs. Die for drawing	M. W. Elliott	333,735	Jan. 5	331	91	34	62
Watch-springs. Machine for treating metal ribbon for	J. Logan	342,917	June 1	202	52	35	1041
Watch-springs. Making	J. Logan	337,690	Mar. 9	1088	281	34	1128
Watch. Stem-winding	A. L. Keller	353,687	Dec. 7	48	13	37	1015
Watch. Stem-winding	L. B. Norcross	347,886	Aug. 24	2003	531	36	858
Watch. Stem-winding	C. V. Woerd	354,002	Dec. 7	511	138 139	37	1099
Watch. Stem winding and setting	H. Abbott	335,731	Feb. 9	908	240	34	611
Watch. Stem winding and setting	J. Bachner	354,083	Dec. 14	626	171	37	1129
Watch. Stem winding and setting	C. P. Corliss	345,619	July 13	1163	298 299	36	216
Watch. Stem winding and setting	W. H. Fitz Gerald	338,947	Mar. 30	2889	746	34	1463
Watch. Stem winding and setting	W. H. Fitz Gerald and E. A. Marsh	338,946	Mar. 30	2887	746	34	1462
Watch. Stem winding and setting	B. Frese	350,425	Oct. 5	431	124	37	85
Watch. Stem winding and setting	G. S. Heath and A. F. Champlin	348,009	Aug. 24	2178	580	36	891
Watch. Stem winding and setting	C. Kistler	344,838	July 6	58	14	36	11
Watch. Stem winding and setting	H. A. Lugrin	334,179	Jan. 12	961	260	34	185
Watch. Stem winding and setting	A. Troller	350,904	Oct. 12	1138	303	37	215
Watch. Stem winding and setting	C. V. Woerd	341,786	May 11	1121	297	35	724

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Watch. Stem winding and setting	A. M. Yeakel	350,407	Oct. 5	397	114	37	79
Watch stem winding and setting attachment	H. Abbott	335,733	Feb. 9	914	240 / 241	34	612
Watch stem winding and setting mechanism	H. Abbott	335,732	Feb. 9	912	240	34	611
Watch stem winding and setting mechanism	W. H. Fitz Gerald	338,945	Mar. 30	2824	745	34	1462
Watch. Stop-	J. Bachner	354,084	Dec. 14	628	171	37	1129
Watch. Stop-	C. P. Corliss	339,862	Apr. 13	1104	275	35	202
Watch. Stop-	E. J. A. Dupuis	349,149	June 1	542	137	35	1105
Watch. Stop-	A. O. Jennings	352,326	Nov. 9	870	234	37	626
Watch. Stop-	H. A. Lugrin. (Reissue)	10,770	Sept. 28	2145	555	36	1472
Watch. Stop-	H. A. Lugrin	353,795	Dec. 7	198	53, 54	37	1043
Watch. Stop-	J. Tixier	333,792	Jan. 5	406	110	34	77
Watch. Stop-	J. Tixier. (Reissue)	10,756	Aug. 17	1814	483	36	815
Watch. Universal	L. Béguelin	345,406	July 13	843	211	36	157
Watch-winding indicator	A. G. Wiseman	335,666	Feb. 9	809	215	34	592
Watch-winding mechanism	H. F. Hambruch	345,231	July 6	594	151	36	107
Watch-winding mechanism	C. Morlet	335,471	Feb. 2	529	138 / 139	34	536
Watches. Apparatus for demagnetizing	C. K. Giles and R. E. Fenner	345,838	July 20	1496	388	36	281
Watches. Cannon-pinion for	G. C. Moor	345,800	July 20	1441	373	36	272
Watches. Combined dust-ring and case-spring for	R. L. Stafft	354,606	Dec. 21	1496	396	37	1292
Watches. Combined wheel and pinion for	G. E. Hart	338,959	Mar. 30	2849	750	34	1465
Watches. Device for letting down the mainsprings of	R. L. Taft	340,386	Apr. 20	1851	475	35	345
Watches. Escapement-lever for	W. B. Simpson	337,529	Mar. 9	896	228	34	1093
Watches. Game attachment for	J. Walzer	348,645	Sept. 7	154	43	36	1075
Watches. Going-barrel for	D. H. Church	339,378	Apr. 6	377	93	35	70
Watches. Mainspring-barrel for	G. E. Hart	338,960	Mar. 30	2845	750	34	1466
Watches. Pendant-stem for	E. F. Heffernan	345,055	July 6	360	91	36	66
Watches. Pendant-stem for	A. L. Keller	353,749	Dec. 7	135	37	37	1031
Watches. Pendant-stem for	C. F. Merrill	351,392	Oct. 26	1845	484	37	355
Watches. Pendant-stem for	F. W. Schimmel	351,530	Oct. 26	2071	537	37	398
Watches. Poising the hair-springs of	T. Gribi	345,840	July 20	1499	388	36	281
Watches, &c. Safety attachment for	O. G. Faber	339,870	Apr. 13	1116	277	35	205
Watches. Safety attachment for	D. Nettekoven	352,256	Nov. 9	778	208	37	608
Watches. Stem-setting mechanism for	A. Troller	347,450	Aug. 17	1368	364	36	732
Watches. Stem winding and setting mechanism for	H. Abbott	346,254	July 27	2075	533 / 534	36	398
Watches. Stem winding and setting mechanism for	R. L. Taft	345,193	July 6	542	136	36	99
Watches. Stem winding and setting mechanism for	C. V. Woerd	340,850	Apr. 27	2492	656	35	466
Watches. Stem-winding device for	O. Johanson	351,919	Nov. 2	279	76	37	508
Watches. Stem-winding device for	O. Johanson	351,920	Nov. 2	279	77	37	508
Watches. Stem-winding mechanism for	W. Bell	344,026	June 22	1797	463	35	1355
Watches to chains. Fastening device for securing	J. T. Healy	341,908	May 18	1295	346	35	765
Watches. Winding pinion and ratchet for	G. E. Hart	345,588	July 13	1128	288	36	208
Watchman's time-detector	L. W. Pennell	338,292	Mar. 23	1902	500 / 501	34	1292
Watchman's time-recorder	J. E. Tarbox and E. H. Taylor	338,315	Mar. 23	1936	510 / 511	34	1298
Watchmen's time-recorders. Circuit-controlling device for	L. W. Pennell	338,293	Mar. 23	1904	501	34	1293
Water-alarm	F. J. Bort	339,260	Apr. 6	210	53	35	39
Water and gas mains. Stop-valve for	W. Royce	337,438	Mar. 9	778	198	34	1074
Water and gas pipes. Ball-and-socket joint for	A. L. Holmes	346,478	Aug. 3	38	10	36	467
Water. Apparatus for purifying	J. W. Hyatt	350,679	Oct. 12	822	223	37	156
Water. Apparatus for purifying	I. B. McCormack	341,672	May 11	979	259	35	696
Water. Apparatus for separating solid impurities from	A. Howatson	344,740	June 29	2777	719	35	1541
Water. Appliance for moving, raising, and supplying	J. A. Wakefield	342,405	May 25	2002	528	35	901
Water-back	H. Engelbert	344,899	July 6	147	37	36	27
Water-closet	A. F. Blesch	354,379	Dec. 14	1065	285	37	1209
Water-closet	J. E. Boyle	354,623	Dec. 21	1432	380	37	1280
Water-closet	J Clifford	335,895	Feb. 9	1152	306	34	654
Water-closet	J. Clifford	340,287	Apr. 20	1712	436	35	318
Water-closet	J. J. De Rycke	334,941	Jan. 26	2009	536	34	394
Water-closet	H. L. Goodwin	352,747	Nov. 16	1414	382	37	738
Water-closet	P. Harvey	349,347	Sept. 21	1090	279	36	1263
Water-closet	P. Harvey	349,348	Sept. 21	1092	280	36	1263
Water-closet	P. Harvey and F. A. Wells	342,203	May 18	1679	448	35	836
Water-closet	B. Havanagh	347,598	Aug. 17	1574	418	36	772
Water-closet	G. W. Hunter	346,997	Aug. 10	703	186	36	603
Water-closet	J. Kelly	343,586	June 15	1201	302	35	1230
Water-closet	T. Kennedy	341,247	May 4	386	106 / 107	35	576
Water-closet	H. C. Kürten	334,176	Jan. 12	956	259	34	184
Water-closet	W. D. Schuyler	339,480	Apr. 6	530	129	35	98
Water-closet	W. H. Umpleby	344,884	July 6	130	32	36	23
Water-closet	W. H. Umpleby	349,293	Sept. 14	1025	262	36	1242
Water-closet	J. Uprichard	349,962	Sept. 28	1958	506	36	1436
Water-closet	J. Vladyka	334,911	Jan. 26	1975	525 / 526	34	388
Water-closet	F. A. Wells	351,236	Oct. 19	1613	423	37	308
Water-closet bowl	J. Kelly	346,932	Aug. 10	608	163	36	585
Water-closet bowls. Coupling for	T. McHugh	343,138	June 1	526	134	35	1102
Water-closet cistern	T. Bailey	337,359	Mar. 9	640	169	34	1051
Water-closet cistern	J. Demarest	337,133	Mar. 2	328	88	34	988
Water-closet cistern	F. A. Jacob	337,835	Mar. 16	1283	332	34	1169
Water-closet cistern	J. Kaufmann	339,062	Mar. 30	3004	794	34	1491
Water-closet cistern	S. G. McFarland	350,206	Oct. 5	159	47	37	33
Water-closet cisterns. Flushing apparatus for	J. L. Mott, Jr	345,390	July 13	815	206	36	152
Water-closet cisterns, &c. Pull for	W. Burrows	353,844	Dec. 7	272	72	37	1056
Water-closet flushing-valve	F. W. Kelly	351,835	Nov. 2	143	40	37	485
Water-closet indicator	J. H. Potts	355,099	Dec. 28	2103	552	37	1419
Water-closet mat or toilet-protector	S. J. Cox	349,784	Sept. 28	1724	445	36	1390

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Water-closet overflow-pipe	E. Hammann	354,133	Dec. 14	713	191	37	1144
Water-closet pans to their rock-shafts. Attaching	S. V. Buskirk	345,667	July 20	1353	324	36	238
Water-closet reservoirs. Valve for	J. G. Bryan	341,372	May 4	563	155	35	606
Water-closet-seat protector	J. H. Engelhardt, Jr.	347,586	Aug. 17	1554	413	36	768
Water-closet. Ship's	F. W. Cross	354,503	Dec. 14	1238	331, 332	37	1239
Water-closet tank	P. G. Hubert	337,405	Mar. 9	706	184	34	1062
Water-closet tanks. Flushing device for	H. C. Weeden	343,314	June 8	639	159	35	1132
Water-closet valve	J. D'Este	335,022	Jan. 26	2124	566	34	414
Water-closet valve	J. Demarest	352,643	Nov. 16	1276	344	37	710
Water-closet valve	C. H. Harkins	344,270	June 22	2141	549	35	1417
Water-closet valve	H. S. Lord	336,523	Feb. 16	2052	539, 540	34	819
Water-closets. Apparatus for flushing	D. W. Hyde	333,951	Jan. 5	622	170	34	117
Water-closets. Apparatus governed by electricity for flushing	A. A. Barker	342,495	May 25	2129	563, 564	35	934
Water-closets. Effluvia-ejector for	W. Smith	338,794	Mar. 30	2616	689	34	1403
Water-closets. Exhaust for	P. Harvey	343,172	June 8	581	145, 146	35	1121
Water-closets, &c. Handle or pull for	W. H. Bate	334,412	Jan. 19	1306	354	34	256
Water-closets. Handle or pull for	W. H. Bate	347,313	Aug. 17	1166	313	36	697
Water-closets. Service-tank for	R. Clarke	354,536	Dec. 21	1292	344	37	1256
Water-closets. Tank-operating device for	P. Harvey	354,701	Dec. 21	1540	408	37	1301
Water-closets, &c. Water or flush tank for	W. E. Lindsley	340,226	Apr. 20	1623	411	35	302
Water. Coagulant for purifying	J. W. Hyatt	350,680	Oct. 12	825	.....	37	157
Water conductor and receiver	W. H. McKenzie	349,894	Sept. 28	1866	482	36	1420
Water-conductor fastening	Z. T. Hall	349,158	Sept. 14	856	219	36	1208
Water conductor. Rain-	W. D. Bates	352,200	Nov. 9	824	220	37	617
Water-conductor. Sheet-metal	W. J. Gordon and E. D. Gilbert	343,025	June 1	347	90	35	1070
Water-conductors. Fastening for	J. A. Carr	352,805	Nov. 16	1495	403	37	753
Water-conductors. Machine for making sheet-metal	W. J. Gordon and E. D. Gilbert	343,024	June 1	337	86, 87, 88, 89, 90	35	1069
Water-cooler	J. Hartmeyer	346,849	Aug. 3	493	136	36	557
Water-cooler	W. S. Hood	341,244	May 4	382	105	35	576
Water-cooler	T. C. Smith	342,397	May 25	1987	525	35	899
Water-cooler	J. F. Stoffiet and A. S. Seaman	341,391	May 4	591	162	35	612
Water cooler and filter	R. Chester	354,687	Dec. 21	1521	404	37	1297
Water-cooler and refrigerator	W. F. Nickels	348,043	Aug. 24	2222	594	36	899
Water-cooler and refrigerator. Combined	J. D. Colony	342,330	May 25	1886	499	35	882
Water cut-off. Rain-	J. Severding	351,940	Nov. 2	310	86	37	514
Water. Device for automatically gaging the flow of	C. N. Tibbitts	334,095	Jan. 12	838	229	34	163
Water. Device for conducting	H. P. Handy	340,574	Apr. 27	2113	545	35	400
Water-distribution. System of	G. B. Bassett	349,202	Sept. 14	911	234	36	1219
Water-distribution. System of	G. B. Bassett	352,389	Nov. 9	940	254	37	643
Water-elevating apparatus	C. W. Cooper	343,568	June 15	1174	296	35	1234
Water-elevator	L. A. Brigel	342,325	May 25	1879	498	35	881
Water-elevator	G. W. Campbell	352,394	Nov. 9	955	256	37	644
Water-elevator	J. C. Davis	337,251	Mar. 2	494	129	34	1017
Water-elevator	R. C. Dugan	335,061	Jan. 26	2183	580	34	496
Water-elevator	J. Houlgate	349,254	Sept. 14	984	251	36	1233
Water-elevator	C. M. Kimball	344,911	July 6	164	41	36	30
Water-elevator	G. J. Mansfield	342,919	June 1	205	53	35	1042
Water-elevator	W. W. Thaxton	348,601	Sept. 7	96	28	36	1064
Water elevator and carrier	J. S. Ford and P. Rarick	343,808	June 15	1505	379	35	1294
Water elevator and carrier	J. S. Ford and P. Rarick	353,211	Nov. 23	2079	555	37	873
Water-elevator. Compressed-air	J. G. Pohlé	347,196	Aug. 10	996	266	36	656
Water-elevator. Pneumatic	J. G. Pohlé and D. Hill	338,295	Mar. 23	1906	502	34	1293
Water-elevator. Self-acting	A. Wilkin	341,617	May 11	902	240	35	681
Water-gage	T. H. Cheek	353,920	Dec. 7	389	103	37	1078
Water-gage	G. A. Henderson	338,737	Mar. 30	2541	670	34	1409
Water-gage boiler. Upright double	K. A. Klose	354,710	Dec. 21	1553	411	37	1303
Water-gage. Safety	J. B. Little	345,156	July 6	496	127	36	90
Water-gage. Safety	J. McCaffrey	349,509	Sept. 21	1335	346	36	1310
Water-gage. Safety	R. Stretch	351,814	Nov. 2	118	33	37	480
Water-gages. Float for	R. N. R. Phelps	340,456	Apr. 20	1937	498	35	360
Water-gages. Glass tube for	L. J. Crossley, R. Hanson, and J. J. Hicks.	349,271	Sept. 14	1003	256	36	1237
Water-gate	A. R. Glover	341,471	May 11	702	188	35	642
Water-gate	J. M. Sanders	342,975	June 1	280	72	35	1057
Water-heater	J. R. Denison	347,332	Aug. 17	1194	319	36	702
Water-heater	F. W. Momburg	348,989	Sept. 14	615	162	36	1166
Water-heater	W. E. Nolan	352,628	Nov. 16	1259	339	37	708
Water-heater	J. H. Swager and J. F. Ferchen	352,896	Nov. 16	1613	434	37	776
Water-heater	H. A. Tobey	353,097	Nov. 23	1911	513	37	840
Water-heater and grate. Gas and gasoline	J. F. Munz and F. R. Wells	351,335	Oct. 19	1745	459	37	331
Water heater and purifier	M. M. Wilson	352,638	Nov. 16	1270	342	37	710
Water-level indicator	W. S. Mayers	344,121	June 22	1936	495	35	1380
Water-level indicator	J. R. Wilcox	337,910	Mar. 16	1377	358	34	1187
Water-level indicator. Electric	C. H. Wickersham	350,279	Oct. 5	244	71	37	51
Water-marks. Producing	C. M. Schmidt	334,199	Jan. 12	1006	.....	34	195
Water-meter. Double-piston	G. Sickels	342,140	May 18	1607	429	35	823
Water-meter. Oscillating	L. H. Nash	336,140	Feb. 16	1497	394, 395	34	722
Water-meter. Oscillating	L. H. Nash	336,141	Feb. 16	1499	395, 396	34	722
Water-meter. Oscillating	L. H. Nash	353,699	Dec. 7	63	16, 17	37	1017
Water-meter. Oscillating	L. H. Nash	353,806	Dec. 7	215	58	37	1046
Water-meter. Piston	P. Berthon and A. Debenoit	338,243	Mar. 23	1838	483, 484	34	1281
Water-meter. Piston	G. S. Follansbee	354,124	Dec. 14	695	186	37	1141
Water-meter. Piston	F. W. Jenkins	338,972	Mar. 30	2859	755, 756	34	1468

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Water-meter. Piston	J. M. Linscott	337,845	Mar. 16	1294	336	34	1171
Water-meter. Piston	E. C. Terry	344,064	June 22	1852	475, 476	35	1365
Water-meter. Piston	E. C. Terry	355,037	Dec. 28	2040	529, 530	37	1400
Water-meter. Piston	C. T. Toense	354,613	Dec. 21	1417	375, 376	37	1277
Water-meter. Piston	H. B. Whittaker	336,678	Feb. 23	2285	597	34	866
Water-meter. Proportional	N. B. Acheson	339,832	Apr. 13	1065	265	35	195
Water-meter. Proportional	L. H. Nash	336,135	Feb. 16	1485	392	34	720
Water-meter. Proportional	L. H. Nash	336,137	Feb. 16	1488	393	34	721
Water-meter. Proportional	L. H. Nash	336,138	Feb. 16	1490	393	34	721
Water-meter. Proportional	L. H. Nash	336,146	Feb. 16	1515	400, 401	34	724
Water-meter. Proportional	L. H. Nash	336,148	Feb. 16	1522	401	34	724
Water-meter. Proportional	L. H. Nash	353,700	Dec. 7	65	17	37	1018
Water-meter. Proportional	L. H. Nash	353,701	Dec. 7	67	18	37	1018
Water-meter. Proportional	L. H. Nash	353,702	Dec. 7	70	18, 19	37	1019
Water-meter. Proportional	D. B. Spooner	341,515	May 11	750	203	35	652
Water-meter. Proportional	D. A. Sutherland	351,721	Oct. 26	2340	609	37	448
Water-meter. Rotary	R. Creuzbaur	350,619	Oct. 12	735	199, 200	37	141
Water-meter. Rotary	G. Fajen	343,804	June 15	1501	378	35	1293
Water-meter. Rotary	F. T. Gilbert	348,277	Aug. 31	2568	690	36	969
Water-meter. Rotary	H. Meinecke	350,496	Oct. 12	558	155	37	110
Water-meter. Rotary	J. J. Tylor	354,614	Dec. 21	1420	376	37	1278
Water-meter with revolving non-rotating piston	L. H. Nash	353,703	Dec. 7	71	19	37	1019
Water-meter with revolving piston	L. H. Nash	336,142	Feb. 16	1502	396, 397	34	722
Water-meter with revolving piston	L. H. Nash	336,143	Feb. 16	1504	397	34	723
Water-meter with revolving piston	L. H. Nash	336,144	Feb. 16	1507	398, 399	34	723
Water-meter with revolving pistons	J. A. Tilden. (Reissue)	10,778	Nov. 2	551	146, 147	37	561
Water-meter with revolving pistons	J. A. Tilden	353,833	Dec. 7	253	67, 68	37	1053
Water-meters. Operating proportional	L. H. Nash	336,136	Feb. 16	1486	393	34	721
Water-meters. Operating proportional	L. H. Nash	336,139	Feb. 16	1494	394	34	721
Water-meters. Operating proportional	L. H. Nash	336,145	Feb. 16	1510	399, 400	34	723
Water-meters. Operating proportional	L. H. Nash	336,147	Feb. 16	1520	401	34	724
Water-motor	J. H. Hagerty	344,960	July 6	220	56, 57	36	41
Water-motor	F. A. Hinds	344,737	June 29	2773	718	35	1540
Water-motor	J. P. Hussey	340,120	Apr. 20	1452	367	35	271
Water-motor	P. Murray, Jr	349,856	Sept. 28	1821	470	36	1410
Water-motor	J. M. Seymour, Jr	353,596	Nov. 30	2634	704	37	984
Water-motor	H. Titus	338,116	Mar. 16	1674	435	34	1241
Water-motor	G. A. Tuerk	348,504	Aug. 31	2885	776	36	1031
Water-motor	D. P. Weir	338,572	Mar. 23	2285	599	34	1359
Water or other engine	P. F. Morey	355,097	Dec. 28	2100	551, 552	37	1418
Water or other pipes. Device for scraping or cleansing	C. R. Kear	354,478	Dec. 14	1196	320	37	1232
Water-overflow. Alarm for detecting	L. Weil	336,773	Feb. 23	2404	632	34	890
Water-pipe-feeding attachment. Automatic	J. C. Higgins	340,313	Apr. 20	1749	446	35	325
Water-pipes. Air-vent for	J. C. Kupferle	352,093	Nov. 2	529	141	37	558
Water-pipes. Anti-freezing apparatus for	E. A. Newman	346,308	July 27	2143	552, 553	36	410
Water-pipes. Automatic cut-off for	W. G. Browne	351,093	Oct. 19	1426	374	37	273
Water-power. Utilizing	B. M. Armitage	337,727	Mar. 9	1136	293, 294	34	1136
Water-proof and other garments. Ventilated	J. J. Byers	346,087	July 27	1834	474	36	351
Water-proof cloak	S. A. Mendel	349,313	Sept. 21	1047	268	36	1254
Water-proof composition for roofing, &c	B. Overlack	354,611	Dec. 21	1415	.....	37	1277
Water-proof covering for roofs, &c. Material applicable as a	A. Ford	342,345	May 25	1917	.....	35	887
Water-proof fabric	C. Moseley	352,954	Nov. 23	1696	456	37	799
Water-proof garment	B. Robinson	355,213	Dec. 28	2264	597	37	1451
Water-proof garment	G. Town	344,606	June 29	2603	674	35	1510
Water-proof material for binding leather or cloth or for leather for decorating, &c.	J. Hofmeier	340,314	Apr. 20	1750	.....	35	325
Water-proof over-garment	M. E. Brown	343,698	June 15	1356	338	35	1265
Waterproofing and preservation of fabrics	M. V. Piron	339,463	Apr. 6	504	.....	35	93
Waterproofing cloth	J. H. Sheldon	337,528	Mar. 9	895	.....	34	1093
Waterproofing fabrics. Apparatus for	H. C. Spalding	345,002	July 6	299	74	36	54
Waterproofing of fabrics	H. Carmichael	342,175	May 18	1648	.....	35	831
Waterproofing paper and other fabrics and machinery therefor.	W. Macrone	341,587	May 11	861	229	35	673
Water purifier. Boiler	E. A. Russell	352,630	Nov. 16	1261	340	37	708
Water. Purifying	W. J. Morrison and J. C. Wharton.	354,650	Dec. 21	1468	.....	37	1287
Water. Purifying	H. H. Smith	337,026	Mar. 2	199	.....	34	962
Water-purifying apparatus	J. H. Blessing	352,943	Nov. 23	1682	451	37	797
Water-purifying apparatus	J. H. Blessing	352,944	Nov. 23	1684	452	37	797
Water-sprinkler	S. M. Crawford	351,362	Oct. 26	1792	471	37	346
Water-supply pipes. Registering-valve for	H. P. Brown	335,213	Feb. 2	185	50	34	473
Water-supply system	R. Crane	345,773	July 20	1407	364, 365	36	266
Water-supply system	C. H. Godfrey	336,997	Mar. 2	153	41	34	953
Water-tank	J. F. Wilbur	340,532	Apr. 20	2051	527	35	381
Water-tank. Automatic stock	R. H. Barber	346,702	Aug. 3	316	87	36	523
Water-tank. Railway	A. E. Lytle	333,959	Jan. 5	631	173	34	119
Water-tower	G. C. Hale	353,132	Nov. 23	1961	524	37	850
Water-tower and fire-escape. Combined	L. D. Shaw	348,297	Aug. 31	2596	698, 699	36	976
Water-tube	W. Kouns	351,781	Nov. 2	75	21	37	472

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Water-tube boiler	E. J. Moore	338,429	Mar. 23	2102	550, 551	34	1327
Water-wheel	J. Knapp	347,810	Aug. 24	1888	504	36	838
Water-wheel	F. L. Lamm	348,400	Aug. 31	2736	734	36	1003
Water-wheel	R. R. Ogden	335,713	Feb. 9	882	233	34	605
Water-wheel	J. L. Perley	348,997	Sept. 14	625	163	36	1167
Water-wheel. Turbine	J. P. Frizell	334,523	Jan. 19	1462	392	34	284
Water-wheel. Turbine	P. H. Holmes	341,577	May 11	848	225, 226	35	671
Water-works. Automatic	M. A. Laska	336,327	Feb. 16	1790	468	34	771
Water-works. Constructing	R. H. Bull and H. H. Hall	344,813	July 6	14	4	36	5
Water-works system	P. B. Perkins	335,303	Feb. 2	302	80	34	495
Waters. Purifying potable and other	F. M. Lyte	341,853	May 11	1214	.....	35	743
Wa erer. Stock	J. M. Dewey	352,047	Nov. 2	458	124	37	545
Watering live stock. Trough for	S. W. Coglizer	351,852	Nov. 2	181	50	37	492
Watering stock. Apparatus for	J. M. Spencer	341,356	May 4	539	148	35	602
Watering-trough	A. J. Cross	353,289	Nov. 30	2182	584	37	899
Watering trough. Automatic stock	Z. Montgomery	351,200	Oct. 19	1570	412	37	301
Wave-power. Mechanism for utilizing	C. H. Kierter	341,021	May 4	64	18	35	517
Wave-power. System for utilizing	A. De Souza	335,113	Feb. 2	18	6	34	444
Waxed end	W. B. Arnold	342,725	May 25	2465	653	35	986
Waxed end or thread	W. B. Arnold	351,683	Oct. 26	2295	594	37	439
Weaner. Calf	M. J. Ahlgrim	353,411	Nov. 30	2362	629	37	932
Weaner. Calf	C. J. Fox	350,877	Oct. 12	1098	293	37	208
Weaner. Calf	C. E. Hubbard	354,140	Dec. 14	723	194	37	1145
Weaner. Calf	H. L. Jones	349,104	Sept. 14	787	199	36	1195
Weaner. Calf	J. M. Markham	352,336	Nov. 9	883	238	37	629
Weaner. Calf	H. W. McNeal	334,131	Jan. 12	886	242	34	172
Weaner. Calf	W. H. Tyler	350,707	Oct. 12	856	230	37	163
Weather-board gage	J. H. Kuykendall and J. K. Elkins	338,233	Mar. 16	1824	477	34	1371
Weather-board gage	J. H. Snyder	339,077	Mar. 30	3021	798	34	1494
Weather-boarding gage	M. E. Johnson	338,156	Mar. 16	1723	450	34	1251
Weather-boarding gage	C. A. Summit	345,261	July 6	637	162	36	116
Weather-strip	N. Amon	335,874	Feb. 9	1108	293	34	647
Weather-strip	W. G. Anderson	343,656	June 15	1291	324	35	1254
Weather-strip	J. S. Duffee	344,773	June 29	2817	730	35	1549
Weather-strip	J. W. Farr	349,787	Sept. 28	1727	446	36	1391
Weather-strip	T. J. Fitzpatrick	336,907	Mar. 2	36	9	34	933
Weather-strip	G. W. Hadesty	341,102	May 4	176	55	35	537
Weather-strip	D. N. Hyre	340,047	Apr. 13	1360	341	35	249
Weather-strip	C. Martzolf	344,284	June 22	2163	554	35	1421
Weather-strip	L. L. Mast	347,493	Aug. 17	1425	379	36	743
Weather-strip	D. D. Mayfield	345,597	July 13	1140	291	36	211
Weather-strip	J. H. Nolan	346,060	July 20	1800	464	36	336
Weather-strip	J. M. Osborn	339,009	Mar. 30	2930	776	34	1479
Weather-strip	J. W. Platt	334,463	Jan. 19	1381	372	34	271
Weather-strip	C. Polley	352,932	Nov. 23	1666	448	37	795
Weather-strip	W. H. Randle	344,921	July 6	174	45	36	33
Weather-strip	G. C. Skinner and C. M. Brooks	347,206	Aug. 10	1007	268	36	659
Weather-strip	A. F. Van Dolsen	335,098	Jan. 26	2236	593	34	434
Weather-strip	G. P. Varnauf	346,833	Aug. 3	474	131	36	553
Weather-strip	W. D. Wright	344,798	June 29	2857	739	35	1557
Weather-strip. Adjustable	K. S. Blanchard	343,429	June 8	971	242, 243	35	1190
Weather-strip for doors	A. J. Davis	337,250	Mar. 2	493	128	34	1017
Weather-strip for doors	T. Law	335,939	Feb. 9	1207	321	34	664
Weather-strip for windows, &c	G. W. Everett	349,877	Sept. 28	1846	477	36	1416
Weaver's combined comb and reed-hook	J. A. Duffy and A. Ball	341,562	May 11	821	219	35	665
Weaving apparatus. Hand	E. Wernicke	334,320	Jan. 12	1177	315	34	226
Wedge. Ax-helve	H. F. Sawyer	338,193	Mar. 16	1774	463	34	1262
Wedge. Rafting	W. J. Latchford	345,153	July 6	493	126	36	90
Wedge. Spring-jack	H. Anderson	338,131	Mar. 16	1689	440	34	1244
Weed-cutter	A. Chezem	350,117	Oct. 5	27	8	37	8
Weed-cutter and harrow. Combined	W. F. and H. C. Reeves	346,173	July 27	1956	504	36	375
Weed gatherer and turner	A. Schnoor	337,442	Mar. 9	786	200	34	1075
Weeder	Z. Breed	354,625	Dec. 21	1435	381	37	1280
Weeder. Field	J. P. Johnson	345,903	July 20	1584	409	36	297
Weeder. Hand	F. G. Lefavour	355,182	Dec. 28	2210	585	37	1442
Weeding implement	A. G. Compton	350,186	Oct. 5	125	35	37	26
Weigher and register. Automatic grain	J. J. T. Dehekker	350,816	Oct. 12	1015	272	37	192
Weigher and register. Grain	J. Hawk	342,600	May 25	2277	603	35	951
Weigher. Automatic grain	E. W. Cornell	346,728	Aug. 3	350	95	36	529
Weigher. Automatic grain	E. Dickson	342,902	June 1	176	45	35	1037
Weigher. Automatic grain	M. K. and F. S. Lewis	344,663	June 29	2675	694, 695	35	1524
Weigher. Automatic grain	N. Morrison	341,159	May 4	258	75	35	552
Weigher. Automatic grain	W. Vanderveer	342,402	May 25	1995	527	35	900
Weigher. Automatic grain	C. J. Wiborg	342,411	May 25	2012	531	35	903
Weigher. Grain	G. D. Baird	355,248	Dec. 28	2320	611	37	1462
Weighing and delivering apparatus. Grain	H. Hodges	338,638	Mar. 23	2377	626	34	1375
Weighing and indicating apparatus	T. H. Ward	342,550	May 25	2206	584, 585, 586	35	938
Weighing and registering apparatus. Automatic grain	C. L. Burgess	350,658	Oct. 12	794	216	37	151
Weighing and registering apparatus. Grain	G. E. Baird	349,971	Sept. 28	1967	508, 509	36	1438
Weighing and registering apparatus. Grain	W. R. Dunkel	346,272	July 27	2097	540	36	402
Weighing and registering apparatus. Grain	W. H. Ernst	354,695	Dec. 21	1532	406	37	1299
Weighing and registering apparatus. Grain	J. S. Marshall	346,668	Aug. 3	276	76	36	515
Weighing and registering machine. Automatic grain	R. S. Gabbey	343,763	June 15	1454	363	35	1284
Weighing apparatus	L. R. Witherell	340,181	Apr. 20	1554	393	35	289
Weighing apparatus. Automatic grain	J. F. Milligan	344,192	June 22	2036	520	35	1398
Weighing apparatus. Automatic grain	J. Wherry, Jr	337,906	Mar. 16	1373	356, 357	34	1186

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Weighing apparatus. Grain-	F. C. M. Meyer	339,002	Mar. 30	2921	773, 774	34	1478
Weighing apparatus. Grain-	J. A. Mitchell	342,261	May 18	1762	468	35	852
Weighing apparatus. Grain-	A. E. Wade	344,148	June 22	1972	504	35	1386
Weighing-machine	P. Everitt	336,042	Feb. 9	1344	355, 356	34	687
Weighing machine. Automatic grain-	C. and A. Hershey	351,377	Oct. 26	1811	476	37	350
Weighing machine. Automatic grain-	D. D. Kuhlman	354,911	Dec. 28	1837	485	37	1369
Weighing-machine recorder	P. Everitt	336,043	Feb. 9	1346	356, 357	34	688
Weighing machines, &c. Register for grain-	C. Seessle	339,939	Apr. 13	1204	300	35	221
Weighing mechanism for elevators, &c. Automatic	I. S. Sanger	349,521	Sept. 21	1350	351	36	1314
Weighing mechanism for wool and other fiber	W. C. Bramwell	342,949	June 1	250	64	35	1051
Weight-motor	T. J. Blagg	349,872	Sept. 28	1839	475, 476	36	1414
Weight-motor	H. A. Spencer	353,717	Dec. 7	96	25	37	1023
Weight-motor. Automatic	A. Osterloh	337,428	Mar. 9	751	192	34	1069
Welding compound	J. O. Ball	353,112	Nov. 23	1931	.....	37	844
Welding-flux	E. A. Whitcomb and J. J. Riddle	341,785	May 11	1129	.....	35	724
Welding. Flux for	E. A. Whitcomb and J. J. Riddle	341,784	May 11	1119	.....	35	724
Welding-machine	J. B. Root	346,614	Aug. 3	209	57	36	501
Welding-machine	J. B. Root	346,828	Aug. 3	459	126	36	549
Welding plowshares and landsides. Device for	L. A. Weyburn	355,110	Dec. 28	2115	556	37	1421
Well and pumping mechanism for the same. Tube-	M. T. Chapman	349,339	Sept. 21	1076	277	36	1260
Well boring. Expanding drill-bit for Artesian-	C. C. Laue	345,385	July 13	809	204	36	151
Well-boring machine	N. B. Carrignes and S. Davis	336,403	Feb. 16	1897	496	34	791
Well-boring machine	M. K. Lewis and A. B. Starky	344,389	June 29	2311	595	35	1455
Well-boring machinery	R. U. Donal	340,562	Apr. 27	2099	541	35	397
Well-boring tool	J. A. Woodhouse	349,192	Sept. 14	899	231	36	1216
Well casing. Oil-	R. W. Miller and J. McConnell	344,849	July 6	72	18	36	14
Well casings. Reaming-tool for use in sinking bored-	W. A. Lloyd	344,744	June 29	2782	720	35	1542
Well-digging rigs. Sand-reel for	R. S. Battles	347,314	Aug. 17	1167	313	36	697
Well-drill	W. C. Wells	336,187	Feb. 16	1578	415	34	734
Well-drilling machine	R. G. Marcy	338,539	Mar. 23	2242	589	34	1352
Well-drilling machine	O. Rust	336,353	Feb. 16	1828	479, 480	34	778
Well-drilling machine	W. J. Pringle	347,377	Aug. 17	1261	334	36	713
Well-drilling machine	W. C. Shear	345,181	July 6	525	134, 135	36	96
Well mechanism	J. S. Bush	345,275	July 13	664	168	36	126
Well point. Drive-	W. F. Felten	352,531	Nov. 16	1121	303	37	683
Well-reamer	F. H. Ober	344,326	June 22	2215	570	35	1431
Well tubes and poles. Clamp for holding	B. Wheeler	342,888	June 1	158	41	35	1035
Well-tubes. Machine for driving	J. Imler	340,318	Apr. 20	1755	447, 448	35	326
Well. Vacuum-	J. M. Seymour	333,681	Jan. 5	243	66	34	47
Wells. Apparatus for sinking	M. C. and C. E. Baker	350,339	Oct. 5	321	91	37	65
Wells. Apparatus for the formation of deep	S. W. Douglass	339,630	Apr. 13	792	194, 195	35	146
Wells. Automatic expansible tube for	O. Fay	341,327	May 4	503	138	35	596
Wells. Combined spear and socket for oil-	J. Gill	351,632	Oct. 26	2229	576	37	426
Wells. Device for connecting pipe to bore-holes for Artesian	P. Price and J. Leib	347,277	Aug. 10	1104	295	36	676
Wells. Device for drawing standing valves in	J. Moran	336,488	Feb. 16	2009	527	34	811
Wells. Device for driving tube-	A. D. Austin	348,813	Sept. 7	366	99	36	1116
Wells. Device for withdrawing the pipes from driven	J. Mericle	338,427	Mar. 23	2099	550	34	1326
Wells. Expansion-drill for boring	J. F. Dye	349,700	Sept. 28	1583	410	36	1366
Wells. Ground-screw for boring	S. Wickizer	334,919	Jan. 26	1985	529	34	389
Wells. Operating oil-	M. Gotham	344,266	June 22	2135	.....	35	1416
Wells. Operation of oil-	C. N. Royce	344,137	June 22	1956	499, 500	35	1384
Wells. Procuring supplies of water from tubular	W. D. Andrews	349,379	Sept. 21	1155	299, 300	36	1275
Wells. Point for deep	S. W. Douglass	340,035	Apr. 13	1343	336	35	245
Wells. Sand-reel for Artesian	C. G. Coss	353,305	Nov. 23	2069	552	37	871
Wells. Spear for removing casings from oil-	B. H. Griswold	348,520	Aug. 31	2912	783	36	1036
Wells, &c. Steam excavating process of sinking	J. A. Wagner	342,274	May 18	1786	473	35	856
Wells. Sucker-rod for oil-	S. K. Whitmore	338,653	Mar. 23	2398	631	34	1379
Wells. Tube-clamp for Artesian	H. C. Reichardt	342,462	May 25	2079	548	35	916
Wells. Tube-clamp for oil-	J. Holly	348,907	Sept. 7	500	132	36	1139
Wells, &c. Tube-clamp for oil-	W. C. Wells	352,734	Nov. 16	1390	377	37	734
Wheat and other grain. Machine for pearling	J. J. Hubbell	337,160	Mar. 2	368	96, 97	34	994
Wheat. Cleaning	E. Reist	340,155	Apr. 20	1509	.....	35	282
Wheat cleaning and polishing machine	E. Fritsch	335,220	Feb. 2	196	51	34	475
Wheel: *See* Car-wheel. Carriage-wheel. Emery-wheel. Fifth-wheel. Harvester-wheel. Harvester grain-wheel. Measuring-wheel. Metal wheel. Metallic wheel. Paddle-wheel. Planter-wheel. Polishing-wheel. Polishing and grinding wheel. Potter's wheel. Printing-wheel. Propeller-wheel. Propelling-wheel. Skate-wheel. Steamboat and water wheel. Tracing-wheel. Traction-wheel. Truck-wheel. Vehicle-wheel. Velocipede-wheel. Wagon-wheel. Watch-dial wheel. Water-wheel. Wheelbarrow-wheel. Wind-wheel.							
Wheel	E. T. Burgess	334,163	Jan. 12	941	254	34	181
Wheel	T. H. Carlin	338,922	Mar. 30	2800	738	34	1457
Wheel	W. H. Curd	346,401	July 27	2277	584	36	436
Wheel	P. Dion	345,218	July 6	574	146	36	104

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Wheel	W. W. Dunn	341,462	May 11	692	185	35	640
Wheel	F. H. Harris	353,060	Nov. 23	1860	502	37	829
Wheel	F. W. Hubbard	354,474	Dec. 14	1192	319	37	1231
Wheel	J. Klotz	344,118	June 22	1933	494	35	1380
Wheel	J. B. McCune	334,323	Jan. 12	1272	343	34	248
Wheel	W. F. Olin and F. J. Coddington	344,552	July 6	75	19	36	14
Wheel	H. Rohrer	343,399	June 8	939	234	35	1185
Wheel	R. Scheider	335,964	Feb. 9	1237	329	34	669
Wheel	H. Timken	341,523	May 11	765	206	35	655
Wheel	S. T. Williams	337,223	Mar. 2	453	118	34	1010
Wheel	W. Zieger	339,611	Apr. 6	754	186	35	132
Wheel and axle	G. W. Pittman	344,543	June 29	2528	653	35	1494
Wheel and pinion. Manufacture of combined	G. E. Hart	338,962	Mar. 30	2846	751	34	1466
Wheel-chock	J. S. Black	354,010	Dec. 7	522	142	37	1101
Wheel-guard and track-cleaner	H. M. Creager	340,561	Apr. 27	2098	541	35	397
Wheel-rims. Blank for	J. Macphail	343,467	June 8	1037	259	35	1202
Wheel-riveting machine	A. W. Grant	345,133	July 6	460	{118 / 119}	36	84
Wheels. Machine for riveting and dressing	A. Crossley	346,987	Aug. 10	690	183	36	600
Wheels. Making	W. Eyre	338,168	Mar. 16	1737	453	34	1254
Wheels. Manufacture of metal	J. R. Little	338,988	Mar. 30	2888	765	34	1472
Wheels. Rim for	L. L. Hitt	342,095	May 18	1555	416	35	813
Wheelbarrow	J. Amuln	355,245	Dec. 28	2315	610	37	1461
Wheelbarrow	W. Benjamin	349,681	Sept. 28	1558	404	36	1361
Wheelbarrow	J. P. Enderes	353,299	Nov. 30	2199	588	37	902
Wheelbarrow	F. E. Fay	354,775	Dec. 21	1648	436	37	1321
Wheelbarrow	F. E. Fay	354,776	Dec. 21	1649	436	37	1321
Wheelbarrow and barrel-truck. Combined	J. S. Gourlay	355,263	Dec. 28	2340	616	37	1466
Wheelbarrow-wheel	G. W. Thomas	339,712	Apr. 13	908	223	35	166
Wheelbarrows for shipment. Packing	G. W. Thomas	343,261	June 8	718	176	35	1144
Wheelwright's clamp	L. W. Free	336,633	Feb. 23	2214	577	34	852
Whiffletree	J. E. Blackburn	344,560	June 29	2546	658	35	1498
Whiffletree	M. A. Gerber and E. J. Nicholas	344,574	June 29	2559	662	35	1501
Whiffletree	L. L. James	342,965	June 1	269	70	35	1055
Whiffletree	J. P. Johnson	338,329	Mar. 23	2329	585	34	1350
Whiffletree	G. E. Judd and A. Pickens	343,817	June 15	1516	382	35	1296
Whiffletree	R. C. McKindley	350,938	Oct. 19	1176	313	37	228
Whiffletree	H. S. Payne	340,151	Apr. 20	1504	380	35	282
Whiffletree	T. M. Vaughan	340,175	Apr. 20	1547	391	35	288
Whiffletree	J. L. Woodward and R. Montfort	341,302	May 4	474	128	35	591
Whiffletree attachment	L. C. Butch	343,105	June 1	470	119	35	1092
Whiffletree-bolt blanks. Machine for making	J. Stacker	353,830	Dec. 7	249	66	37	1052
Whiffletree-center	H. K. Porter	350,391	Oct. 5	381	110	37	76
Whiffletree-clip	G. C. Johnson	346,589	Aug. 3	173	47	36	493
Whiffletree-coupling	H. C. Brown	340,857	Apr. 27	2503	659	35	467
Whiffletree-evener spring-casing	T. J. Christy	336,991	Mar. 2	144	39	34	952
Whiffletree-hook	T. F. Bock	345,103	July 6	422	108	36	77
Whiffletree-hook	A. A. Brackbill	352,295	Nov. 9	830	222	37	618
Whiffletree-hook	P. B. Cook	347,774	Aug. 24	1838	489	36	828
Whiffletree-hook	J. R. Davis	333,837	Jan. 5	468	127	34	87
Whiffletree-hook	J. R. Davis	348,191	Aug. 31	2452	659	36	948
Whiffletree-hook	F. Eggers	337,255	Mar. 2	500	130	34	1014
Whiffletree-hook	G. C. Johnson	346,590	Aug. 3	174	47	36	494
Whiffletree-hook	J. B. Johnson	350,492	Oct. 12	555	154	37	109
Whiffletree-hook	G. W. Kimberley	350,436	Oct. 5	457	129	37	88
Whiffletree-hook	H. M. Oliver	347,954	Aug. 24	2112	563	36	878
Whiffletree-hook	O. M. Pond	339,689	Apr. 13	882	216	35	161
Whiffletree-hook	G. R. B. Swanton	343,156	July 13	918	231	36	170
Whiffletree-iron	H. K. Porter	336,016	Feb. 9	1306	347	34	681
Whiffletree-plate	G. C. Burch	354,851	Dec. 21	1740	461	37	1339
Whiffletree. Spring	E. D. Blake	339,522	Apr. 6	590	142	35	109
Whip	G. C. Bostwick and A. Morley	344,028	June 22	1798	463	35	1355
Whip	A. Mullen	353,371	Nov. 30	2296	613	37	920
Whip	B. R. Suplee and G. M. Main	333,607	Nov. 30	2647	707	37	986
Whip and rein holder. Combined	F. M. Moulton and F. W. Coe	343,055	June 1	398	101	35	1078
Whip-button	H. W. Morgan and C. G. Becker	343,721	June 15	1403	349	35	1274
Whip-button	W. J. Morse	345,166	July 6	507	130	36	92
Whip-core	H. Mullen and J. Noble, Jr	344,959	July 6	258	64	36	46
Whip-holder	C. L. Dalton	349,341	Sept. 21	1080	277	36	1261
Whip-rack	L. D. Jones	352,467	Nov. 9	1045	281	37	662
Whip-rack	J. A. McPherson	335,765	Feb. 9	961	254	34	619
Whip-snap	C. M. Comstock	354,395	Dec. 14	1084	291	37	1212
Whip-socket	G. M. Hubbard	355,524	Feb. 2	605	157	34	548
Whip-socket	E. W. Scott	346,953	Aug. 10	649	174	36	593
Whip-socket	M. S. Tarkington	352,667	Nov. 16	1315	354	37	718
Whip-socket	A. Vester	336,770	Feb. 23	2399	629	34	889
Whip-socket fastener	A. Searls	335,150	Feb. 2	70	19	34	453
Whip-socket lock	J. Madden and C. R. Brown	337,846	Mar. 16	1295	336	34	1171
Whip-stock	B. F. Nichols	336,255	Feb. 16	1692	441	34	753
Whips. Snapper attachment for	F. P. Couse	341,795	May 11	1134	299	35	727
Whisk or mixer	J., J. A., and W. K. Baker	343,790	June 15	1484	373	35	1289
Whisky. Making	M. J. Allen and W. E. Bradley	335,267	Feb. 2	258	68	34	486
Whistle. Electro-mechanical	H. B. Cox	352,044	Nov. 2	456	124	37	544
Whistle for steam-boilers. Alarm	D. P. Dobbins	334,519	Jan. 19	1457	391	34	283
Whistle, match-safe, and cigar-cutter. Combined	A. Greth	344,370	June 29	2285	588	35	1451
Whiting. Manufacture of	J. Quinn, Jr	346,768	Aug. 3	391	.....	36	537
Wick-carrier	J. Barnet, Jr	347,989	Aug. 24	2153	573	36	886
Wick for lamp-burners	J. Wayland	345,091	July 6	406	102	36	74
Wick. Lamp	S. C. Wilcox	346,569	Aug. 3	149	41	36	489
Wick-raiser	L. Henkle	348,970	Sept. 14	590	156	36	1161
Wick-tube for oil-burners	W. H. Wilder	356,365	Dec. 14	1054	282	37	1206
Wick tubes. Lamp	S. C. Wilcox	346,570	Aug. 3	150	41	36	489
Winch	J. M. Gettell, H. C. Grittinger, and J. H. Killinger	350,926	Oct. 19	1163	{309 / 310}	37	226

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Winch-engine	E. C. Bacon	333,496	Jan. 5	2	1	34	3
Winch. Steam-	A. J. Maginnis	337,175	Mar. 2	397	103	34	999
Wind-engine	J. Serdinko	335,388	Feb. 2	422	108	34	517
Wind-instrument	C. G. Conn	343,889	June 15	1607	409	35	1314
Wind-wheel	G. H. Aylsworth	346,797	Aug. 3	423	117	36	543
Wind-wheel	T. Schulze	355,034	Dec. 28	2003	527	37	1399
Wind-wheel	J. T. Thomson	337,094	Mar. 2	282	74, 75	34	979
Wind-wheel	A. Van Ness	339,717	Apr. 13	913	224	35	167
Wind-wheel gearing	L. U. Loomis	336,651	Feb. 23	2240	584	34	857
Winding and spooling machines. Stop-motion mechanism for	W. Murray	345,250	July 6	623	158	36	113
Winding blades or cords. Machine for	G. R. Holden	351,638	Oct. 26	2236	578, 579	37	427
Winding fabrics. Machine for	H. Winterwerber	335,870	Feb. 9	1102	291, 292	34	646
Winding fibers to form strands. Machine for	G. R. Holden	352,088	Nov. 2	521	139	37	557
Winding-machine	A. J. Culp and A. W. Allen	334,569	Jan. 19	1525	408	34	295
Winding-machine	H. Winterwerber	354,294	Dec. 14	958	253, 254	37	1187
Winding machine. Spiral-spring-	H. Spühl	351,220	Oct. 19	1594	418, 419	37	305
Winding-machines. Bobbin-holder for	C. F. Alexander	345,943	July 20	1640	422	36	307
Winding-machines. Bobbin-supporting spindle and bolster therefor for	H. and J. W. Collins	345,030	July 6	333	84	36	61
Winding paper and other fabrics. Machine for	J. Waldron	352,722	Nov. 16	1387	375, 376	37	733
Winding yarn. Machine for	W. T. Hanson	353,745	Dec. 7	129	36	37	1030
Winding yarn on bobbins. Machine for	G. W. Burnham	338,631	Mar. 23	2369	623	34	1374
Windlass	E. J. Barber and T. F. White	348,446	Aug. 31	2806	754	36	1017
Windlass	H. T. Gayton	337,571	Mar. 9	948	242	34	1103
Windlass	F. W. Thomson	334,682	Jan. 19	1682	449	34	325
Windlass-beam	E. H. Whitney	348,370	Aug. 31	2696	724	36	995
Windlass for elevators	J. P. and C. T. Harris	347,239	Aug. 10	1052	281	36	666
Windlass. Oyster-dredge	H. Lawson	355,271	Dec. 28	2349	618	37	1468
Windlass. Ship-	J. P. Manton	350,462	Oct. 5	499	140	37	95
Windlass. Ship-	J. P. Manton	350,464	Oct. 5	502	140	37	96
Windlasses. Locking-gear for	F. A. Grater, E. H. Whitney, and F. S. Manton.	343,991	June 22	1744	449	35	1346
Windlasses. Locking-gear for	E. H. Whitney	344,023	June 22	1790	461	35	1354
Windmill	T. C. Albee	349,197	Sept. 14	905	232	36	1217
Windmill	S. Albright	338,816	Mar. 30	2646	697, 698	34	1429
Windmill	F. A. Baker	352,108	Nov. 9	562	149	37	571
Windmill	J. G. Benster	336,784	Feb. 23	2419	636	34	892
Windmill	F. P. Bouteiller	343,000	June 1	307	79	35	1062
Windmill	H. B. Colman	346,582	Aug. 3	166	45	36	492
Windmill	J. W. Currie	342,736	May 25	2481	659	35	989
Windmill	E. A. Dana	346,468	Aug. 3	26	7	36	466
Windmill	J. R. Desjardins	339,977	Apr. 13	1254	312, 313	35	230
Windmill	S. J. Dodds and O. A. Inman	354,972	Dec. 28	1917	506	37	1384
Windmill	F. Fanning	344,263	June 22	2129	544	35	1415
Windmill	F. Fanning	351,587	Oct. 26	2157	558	37	413
Windmill	A. A. Kinney	352,875	Nov. 16	1586	428	37	771
Windmill	L. Leach	334,445	Jan. 19	1347	365	34	264
Windmill	T. P. Levan	338,532	Mar. 23	2223	586	34	1351
Windmill	A. J. Lindquist	346,665	Aug. 3	272	74, 75	36	514
Windmill	C. Ludwig	353,363	Nov. 30	2286	610	37	918
Windmill	G. W. Penn	355,203	Dec. 28	2249	594	37	1448
Windmill	S. H Radway	349,742	Sept. 28	1665	430	36	1380
Windmill	G. W. Rundlett	347,385	Aug. 17	1273	338	36	715
Windmill	D. Sauder	339,476	Apr. 6	525	127, 128	35	97
Windmill	A. Sherwood	334,813	Jan. 26	1853	494	34	365
Windmill	S. S. Simpson	351,537	Oct. 26	2081	539	37	400
Windmill	S. Standish	338,799	Mar. 30	2622	691	34	1424
Windmill	C. V. Stevens	333,566	Jan. 5	87	25	34	19
Windmill	C. V. Stevens	333,567	Jan. 5	89	26	34	20
Windmill	J. G. and U. C. Stough	338,203	Mar. 16	1783	465	34	1263
Windmill	C. W. and H. E. Sylvester	353,516	Nov. 30	2514	670, 671	37	961
Windmill	G. Turner	339,715	Apr. 13	910	224	35	166
Windmill	F. J. Wagner	344,686	July 6	133	33	36	24
Windmill	G. and E. Wallenbeck	353,721	Dec. 7	103	28	37	1025
Windmill	J. Warwick	343,213	June 8	637	158, 159	35	1131
Windmill	E. P. and C. Wellesley	337,641	Mar. 9	1031	265	34	1118
Windmill	W. C. Westaway	355,236	Dec. 28	2305	607	37	1459
Windmill	W. H. Wheeler	335,864	Feb. 9	1094	289, 290	34	645
Windmill	E. Williams	348,256	Aug. 31	2542	682	36	964
Windmill	M. B. Williams	344,761	June 29	2801	726	35	1545
Windmill	D. B. Wood	343,786	June 15	1479	371	35	1288
Windmill	H. Woodmanse	334,553	Jan. 19	1506	403	34	291
Windmill attachment	G. W. Miller	337,421	Mar. 9	740	190	34	1067
Windmill-gearing	H. G. Newell	346,674	Aug. 3	281	77	36	516
Windmill-gearing	G. H. Pattison	345,317	July 13	719	182	36	136
Windmill-gearing	G. H. Pattison	345,722	July 20	1328	344	36	252
Windmill-gearing	G. H. Pattison	348,411	Aug. 31	2750	738	36	1006
Windmill-gearing	G. H. Pattison	351,461	Oct. 26	1968	512	37	377
Windmill-gearing	G. H. Pattison. (Reissue)	10,789	Dec. 14	1273	340	37	1245
Windmill. Power-	H. B. Colman and G. Turner	337,482	Mar. 9	838	212	34	1083
Windmill-regulator	G. M. Beard	338,914	Mar. 30	2789	735, 736	34	1454

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Windmill-regulator	H. L. Ferris	351,503	Oct. 26	2032	528	37	390
Windmill-regulator	F. T. Zimmerman	333,806	Jan. 5	423	115	34	79
Windmills. Automatic water-service system for	C. G. Frushour	335,807	Feb. 9	1021	270	34	631
Windmills. Detachable guide-bearing for reciprocating rods of	K. A. Smith and J. E. Woodard	338,793	Mar. 30	2616	689	34	1423
Window	M. B. Burk	352,181	Nov. 9	684	183	37	591
Window	W. M. Carpenter	348,264	Aug. 31	2554	686	36	967
Window	R. Mason	339,447	Apr. 6	479	117	35	89
Window	M. S. Millard	339,677	Apr. 13	858	210, 211	35	157
Window	J. S. Pihlström	337,193	Mar. 2	416	108, 109	34	1003
Window-bead fastener	C. R. Nelson	338,433	Mar. 23	2110	552	34	1328
Window-casing	A. B. Holmes	349,995	Sept. 28	2004	518	36	1445
Window catch and lock	W. T. Gilbert	351,261	Oct. 19	1646	432	37	314
Window-cleaner	C. Michelsen	341,595	May 11	868	231	35	674
Window-cleaner	C. B. Von Schenk	353,472	Nov. 30	2449	653, 654	37	949
Window-cleaning chair	A. Dormitzer	335,215	Feb. 2	188	50	34	474
Window-fastener	P. Gillis	341,745	May 11	1073	285	35	716
Window-fastener	J. E. Whidden	344,888	July 6	135	34	36	24
Window-fastening	L. C. Baldwin	342,774	June 1	2	1	35	1007
Window-fastening, Burglar-proof	J. W. Harbert	346,545	Aug. 3	122	32	36	483
Window-fastening device	A. Dudgeon	336,302	Feb. 16	1763	461	34	765
Window for lighting basements, vaults, &c. Incidence-	I. Schoenberg	354,440	Dec. 14	1144	306	37	1222
Window-frame	E. Geer	340,776	Apr. 27	2398	632	35	448
Window-frame	S. F. Peters	353,037	Nov. 23	1836	491	37	823
Window frame and sash	A. R. Longshore	348,526	Aug. 31	2920	785	36	1037
Window frame and sash	N. F. Saudelin	335,633	Feb. 9	767	203	34	585
Window frame. Plate-glass-	W. D. Smith	344,418	June 29	2348	604	35	1462
Window-frost. Compound for preventing	G. A. Lindgren	341,757	May 11	1089	.....	35	719
Window-guard	J. Kaufman	347,717	Aug. 17	1758	468, 469	36	805
Window-guard	M. McLean	334,881	Jan. 26	1936	515	34	380
Window. Incidence-	L. Nelke	342,030	May 18	1450	388	35	793
Window-jack	W. E. Steinbach	347,260	Aug. 10	1083	289	36	674
Window-lock and burglar-alarm	W. G. Bennett	344,807	July 6	6	2	36	4
Window-screen	J. W. Carman	337,741	Mar. 9	1151	299	34	1139
Window-screen	T. W. Dowling	346,810	Aug. 3	438	120	36	545
Window-screen	J. M. Hommel	346,916	Aug. 10	602	162	36	584
Window-screen	Q King	341,334	May 4	511	141	35	598
Window-screen	E. Louderback	334,876	Jan. 26	1931	514	34	379
Window-screen	W. E. Monroe	349,444	Sept. 21	1245	322	36	1291
Window-screen	P. Paulus and H. Faber	334,676	Jan. 19	1672	446	34	323
Window-screen	M. C. Radway	339,691	Apr. 13	883	217	35	162
Window-screen	W. W. Robinson	346,949	Aug. 10	645	173	36	592
Window-screen	C. J. Shirreff	345,328	July 13	734	185	36	139
Window-screen	S. J. Vance	336,178	Feb. 16	1566	412	34	732
Window-screen. Adjustable	T. Skinner	353,171	Nov. 23	2016	540	37	861
Window-screen and ventilator. Combined	H. W. Libbey	338,378	Mar. 23	1888	496	34	1290
Window-seat and bedstead. Combined	M. Bretherton	348,653	Sept. 7	164	45	36	1077
Window-seat and couch. Combined	M. Bretherton	348,655	Sept. 7	170	46	36	1078
Window-seat, bedstead, and couch. Combined	M. Bretherton	348,654	Sept. 7	167	46	36	1078
Window-shade	W. J. Cox	340,981	May 4	15	4	35	508
Window-shade	G. W. McGill	347,434	Aug. 17	1333	355	36	727
Window-shade bar	T. R. Hyde, Jr	350,884	Oct. 12	1108	295	37	209
Window-shade hanging	J. W. and A. H. Greene	340,438	Apr. 20	1908	491	35	355
Window-shade roller	H. A. Walker	353,182	Nov. 23	2036	544	37	865
Window-shades. Frame for stretching	P. Michel	341,594	May 11	867	231	35	674
Window. Show-	C. D. Williams	349,290	Sept. 14	1021	261	36	1241
Window-spring and weather-strip. Combined	G. W. Lewin	336,575	Feb. 23	2129	558	34	838
Window. Storm-	G. F. Teufel	341,112	May 4	192	60	35	540
Window-ventilator	D. C. Cawley and C. P. Wall	347,158	Aug. 10	946	252	36	647
Window-ventilator	J. P. Doheny	350,582	Oct. 12	677	185	37	130
Window-ventilator	S. J. Shaw	341,695	May 11	1016	268	35	704
Window-washing machine	R. H. Schenck	347,520	Aug. 17	1462	388	36	750
Window and doors. Trimming for	F. Koskiat	344,742	June 29	2779	728	35	1542
Windows and shutters. Fastener for	R. P. Hall	353,936	Dec. 7	409	110	37	1062
Windows. Blind-way for	W. A. Holbrook	344,527	June 29	2502	645	35	1489
Windows. Bracket for use in the draping of	J. C. Spofford	352,100	Nov. 2	539	143	37	559
Windows. Construction of sash-	V. Klán and R. Seitz	355,091	Dec. 28	2089	548, 549, 550	37	1415
Windows. Device for fastening	H. H. Sparks	348,355	Aug. 31	2666	718	36	990
Wine. Producing medicinal	F. Waggershauser	344,227	June 22	2082	.....	35	1407
Wine. Treating	A. Wehrle	343,973	June 15	1718	439	35	1335
Wines and liquors by electricity. Apparatus for treating	E. J. Fraser	339,540	Apr. 6	630	154	35	114
Wines and liquors by electricity. Process of treating	E. J. Fraser	339,541	Apr. 6	631	154	35	115
Wire and pipe supporting and snow-removing apparatus.	S. D. Locke	355,185	Dec. 28	2222	586	37	1443
Wire. Apparatus for drawing	J. Reese	338,359	Mar. 23	2060	526	34	1309
Wire. Apparatus for heating	E. Clifton	343,010	June 1	318	82	35	1065
Wire. Apparatus for heating	G. H. Scott	339,219	Apr. 6	145	38, 39	35	28
Wire. Apparatus for reeling or winding	E. Clifton	345,832	July 20	1486	385	36	279
Wire. Barbed	C. J. F. and A. C. H. Kraft	341,921	May 18	1310	350	35	768
Wire. Barbed	J. Potter	336,664	Feb. 23	2266	591	34	863
Wire-barbing machine	A. J. Bates	345,759	July 20	1383	359, 360	36	262
Wire-barbing machine	O. O. Kittleson	350,982	Oct. 19	1249	332, 333	37	242
Wire-bending machine	W. R. Van Vliet	336,361	Feb. 16	1840	482	34	780

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Wire box-fastening. Twisted and flattened	C. F. Hunt	352,246	Nov. 9	764	204	37	606
Wire-braiding machine	J. L. Wells	341,974	May 18	1376	367	35	779
Wire-burring machine	A. Eppler, Jr.	334,362	Jan. 12	1239	333	34	237
Wire by electrolysis. Apparatus for forming	M. G. Farmer	338,941	Mar. 30	2819	744	34	1461
Wire-cloth	B. Scarles	345,735	July 20	1345	350	36	255
Wire-cloth. Shuttle for weaving	J. W. Parker	352,565	Nov. 16	1168	314	37	691
Wire-coating apparatus	J. J. Lee	335,135	Feb. 2	51	14	34	449
Wire-coating compound	E. L. Gates	348,391	Aug. 31	2722	.....	36	1001
Wire-coiling and other machines. Feeding device for	O. P. Briggs	335,889	Feb. 9	1144	304	34	652
Wire-coiling machine	G. Hildreth	347,350	Aug. 17	1221	325, 326	36	706
Wire-coiling machine	J. U. Kessler	337,588	Mar. 9	967	248	34	1107
Wire coils. Machine for forming	W. Kleese	347,720	Aug. 17	1761	470	36	806
Wire. Continuous nail	T. Fowler	341,413	May 4	618	169	35	617
Wire. Covered or insulated	W. M. Habirshaw	338,733	Mar. 30	2532	669	34	1408
Wire-crimping machine	T. L. Johnson	346,479	Aug. 3	39	10	36	468
Wire-cutter	R. Hayden	349,496	Sept. 21	1319	342	36	1307
Wire-cutter	D. Houghton	337,159	Mar. 2	367	96	34	994
Wire-cutting machine	D. Houghton	335,818	Feb. 9	1034	273	34	633
Wire. Device for taking down and putting up and stretching	G. S. Benedict	339,256	Apr. 6	205	52	35	38
Wire. Device for twisting	R. Clark	345,366	July 13	786	198	36	147
Wire. Die for making nail	T. Fowler	341,414	May 4	619	169	35	617
Wire-drawing apparatus	S. H. Byrne	353,663	Dec. 7	13	4	37	1009
Wire-drawing block	J. Benbow	346,709	Aug. 3	328	89	36	525
Wire-drawing. Coating for	C. S. Hall, A. B. Clemence, and H. F. A. Setterwall.	339,168	Apr. 6	69	.....	35	15
Wire-drawing. Coating metal for	G. W. Whyte	340,023	Apr. 13	1327	.....	35	243
Wire-drawing device	T. P. Straup	354,991	Dec. 28	1945	513	37	1389
Wire-drawing drum	W. W. Shearer	353,975	Dec. 7	475	129	37	1093
Wire fabric	H. T. Windt	340,903	Apr. 27	2565	675	35	478
Wire fabric for bed-bottoms. Machine for weaving coiled	O. P. Briggs	348,150	Aug. 24	2371	636, 637	36	927
Wire-fastener	H. A. Graeter	350,241	Oct. 5	199	56	37	41
Wire fastener	S. Metzler	354,801	Dec. 21	1680	444	37	1327
Wire fencing-picket	J. Horrocks	351,109	Oct. 19	1447	379	37	277
Wire for making and mending wire-and-picket fences. Device for twisting	C. Hayner and J. P. Owens	342,960	June 1	264	68	35	1054
Wire-forming device	S. Cawley	344,247	June 22	2106	539	35	1411
Wire gate	A. B. Hackman	344,372	June 29	2288	589	35	1451
Wire gate	J. F. Hanna	351,375	Oct. 26	1809	476	37	349
Wire. Grip for stretching	A. W. Laughlin	345,154	July 6	494	126	36	90
Wire hoop	J. C. Durling	336,706	Feb. 23	2318	607	34	873
Wire joint	C. McIntire	347,625	Aug. 17	1611	427	36	779
Wire machine. Barb	L. J. Crecelius and H. G. Sachleben.	350,413	Oct. 5	408	116, 117, 118	37	81
Wire. Machine for covering	W. D. Grimshaw	342,085	May 18	1540	412	35	810
Wire. Machine for fastening barbs on	O. R. Olsen	338,290	Mar. 23	1898	499, 500	34	1292
Wire. Machine for making barbed	C. D. Rogers	343,154	June 1	550	139	35	1107
Wire. Machine for reducing	J. Reese	338,361	Mar. 23	2004	527	34	1310
Wire. Machine for straightening and cutting	D. I. Eckerson	344,819	July 6	20	5, 6	36	6
Wire. Machine for straightening and cutting	W. Lang	346,291	July 27	2119	545, 546	36	406
Wire. Machine for threading	L. Goddu	351,372	Oct. 26	1805	475	37	348
Wire. Machine for wrapping coils or bundles of	J. A. Dixon	351,584	Oct. 26	2152	557	37	412
Wire, &c. Mechanism for winding	S. W. Robinson	334,809	Jan. 26	1849	493	34	365
Wire nail	C. E. Bailey	340,692	Apr. 27	2283	601	35	427
Wire nail	F. Philips	353,427	Nov. 30	2383	636	37	936
Wire nails, wood-screws, &c. Machine for making threaded	T. J. Sloan	338,446	Mar. 23	2123	555, 556	34	1331
Wire-netting machine	E. Gilbert	341,230	May 4	367	101	35	572
Wire-netting machine	F. Schilling	336,020	Feb. 9	1310	348	34	681
Wire or ribbon. Machine for polishing metal	J. Logan	338,603	Mar. 23	2327	609	34	1366
Wire picket. Self-locking	J. Horrocks	351,110	Oct. 19	1448	379	37	277
Wire-pointing machine	W. H. Dayton	341,558	May 11	817	218	35	664
Wire. Process of and apparatus for drawing and straightening	S. H. Byrne	339,739	Apr. 13	947	232	35	172
Wire reel. Barbed	M. Kampf	355,090	Dec. 28	2088	548	37	1415
Wire. Reel for check-row	G. W. and F. P. Murphey	352,880	Nov. 16	1592	430	37	772
Wire-rod-reeling machine	H. A. Young	353,046	Nov. 23	1838	494, 495, 496	37	825
Wire-rod-reeling machine	H. A. Young	353,047	Nov. 23	1842	497, 498	37	825
Wire rods. Apparatus for coiling	E. S. Lenox	351,839	Nov. 2	153	42, 43	37	487
Wire rods. Making	F. H. Daniels	351,364	Oct. 26	1794	472	37	346
Wire rods. Making	F. H. Daniels	351,365	Oct. 26	1795	472	37	347
Wire-rope drum-reel	W. L. Young	348,943	Sept. 7	550	145	36	1148
Wire-rope fastening	E. P. Frederick	341,101	May 4	175	55	35	537
Wire-rope lines. Elevated	A. Bleichert and J. Schatte	345,828	July 20	1479	381, 382, 383, 384	36	278
Wire rope or cable	A. S. Hallidie	339,646	Apr. 13	813	200	35	149
Wire-rope signal connections. Compensator for	S. H. Harrington	344,042	June 22	1822	467	35	1359
Wire ropes and cables. Compensator for	R. B. Ireland	338,415	Mar. 23	2080	545	34	1323
Wire-splicer	F. S. Pearson	343,194	June 8	611	152	35	1127
Wire. Spool for barbed	C. S. De Witt	338,043	Mar. 16	1572	409	34	1221
Wire-spooling machine	O. P. Briggs	338,244	Mar. 23	1839	484, 485	34	1281
Wire-spooling machine	G. W. Malin	342,702	May 25	2428	644	35	979

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Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs	Official Gazette. Vol.	Official Gazette. Page.
Wire-stitching machine	E. P. Donnell and F. A. Pauckner	341,799	May 11	1138	301, 302	35	727
Wire straightener and cutter	O. Collins	348,660	Sept. 7	176	48	36	1078
Wire-straightening machine	J. Withington	333,707	Jan. 5	288	78, 79, 80	34	55
Wire strands. Machine for twisting and spooling	J. D. Curtis	340,197	Apr. 20	1579	399, 400	35	294
Wire strapping. Fastening for	R. F. Spangenberg	352,159	Nov. 9	646	170	37	585
Wire-stretcher	D. C. Bowen	347,462	Aug. 17	1384	368	36	736
Wire-stretcher	G. H. Brackman	333,821	Jan. 5	445	120	34	83
Wire-stretcher	E. Bunch	355,135	Dec. 28	2151	566	37	1429
Wire-stretcher	J. B. Cleaveland	338,486	Mar. 23	2178	569	34	1341
Wire-stretcher	J. B. Cleaveland	345,367	July 13	787	199	36	147
Wire-stretcher	H. Clemons	343,009	June 1	318	82	35	1064
Wire-stretcher	W. Creed	342,428	May 25	2038	537	35	907
Wire-stretcher	J. C. De Witt	349,985	Sept. 28	1991	514	36	1443
Wire-stretcher	H. L. Ferris and N. B. Helm	352,122	Nov. 9	581	155	37	574
Wire-stretcher	A. B. Graham	354,409	Dec. 14	1102	296	37	1215
Wire-stretcher	S. W. Harman	349,041	Sept. 14	622	177	36	1178
Wire-stretcher	W. N. Huling	350,057	Sept. 28	2001	541	36	1461
Wire-stretcher	O. J. La Bauve	341,251	May 4	390	108	35	577
Wire-stretcher	C. Laufer	354,153	Dec. 14	747	200	37	1149
Wire-stretcher	S. A. Menefee and E. S. Mullinax	344,668	June 29	2680	696	35	1525
Wire-stretcher	G. W. Perry	341,273	May 4	420	115	35	582
Wire-stretcher	J. Reid	339,319	Apr. 6	292	73	35	55
Wire-stretcher	W. D. Sherman	353,383	Nov. 30	2314	618	37	923
Wire-stretcher	J. and E. E. Sickler	333,787	Jan. 5	399	108	34	75
Wire-stretching machine	G. Dann and A. Thoma	355,014	Dec. 28	1959	521	37	1395
Wire, strips, or rods. Apparatus for drawing	J. Reese	338,363	Mar. 23	2007	528	34	1310
Wire. Tool for working	A. M. Delany	352,523	Nov. 16	1112	301	37	682
Wire-twister	E. Burch	353,535	Nov. 30	2544	678	37	967
Wire-twisting machine	B. Fulford	349,251	Sept. 14	981	250	36	1232
Wire-twisting machine	J. Held	344,274	June 22	2145	550	35	1418
Wire-twisting machines. Supporting-frame for wire-reels of	G. Q. Adams	334,403	Jan. 19	1297	351	34	255
Wire-twisting wrench	D. F. Reinheimer	348,293	Aug. 31	2590	697	36	975
Wire-unwinding reel	A. J. Trempe	352,962	Nov. 23	1707	458	37	801
Wire with zinc. Coating	E. H. Hill	345,382	July 13	806	203	36	150
Wires and pipes. Protecting underground	W. Haddock	351,913	Nov. 2	270	74	37	506
Wires and rods together. Attaching	L. A. Wood	345,655	July 13	1237	320	36	228
Wires. Apparatus for molding perforated blocks for containing electric	J. W. Butler	352,504	Nov. 9	1087	293	37	670
Wires. Machine for connecting	A. L. Brush	352,853	Nov. 16	1553	419	37	764
Wires. Tool for uniting	L. E. Whipple	347,675	Aug. 17	1701	453	36	795
Wires with lead. Machine for covering insulated	A. K. Eaton	345,956	July 20	1656	427, 428	36	310
Wood and other material. Bleaching	G. H. Pond	351,069	Oct. 19	1391	.....	37	266
Wood bending and drying machine	S. Swartz	351,813	Nov. 2	120	33	37	469
Wood-carrier	C. G. Fransson	340,303	Apr. 20	1735	442	35	322
Wood-cutting machine	E. G. Pake	348,768	Sept. 7	315	84	36	1166
Wood. Embossing	W. A. Compton. (Reissue)	10,685	Feb. 9	1396	369	34	697
Wood. Embossing	W. A. Compton. (Reissue)	10,686	Feb. 9	1397	369	34	697
Wood-jointer	F. J. Bergquest	341,875	May 18	1249	335	35	757
Wood. Machine for bundling	D. A. Greene	337,946	Mar. 16	1437	372, 373	34	1197
Wood. Machine for bundling kindling	J. E. Shaw and J. F. Ellinger	336,759	Feb. 23	2385	624	34	886
Wood ornamentation	J. P. Jamison	335,589	Feb. 9	707	188	34	574
Wood-polishing machine	A. Bridgman and J. Challoner	352,988	Nov. 23	1747	468, 469	37	809
Wood-polishing machine	W. H. Elmer and A. P. Boardman	335,117	Feb. 2	24	7, 8	34	445
Wood-polishing machine	J. L. Perry	347,125	Aug. 10	895	237, 238, 239	36	637
Wood. Preparation of kindling	J. L. Seymour	345,928	July 20	1618	417	36	304
Wood surfaces. Machine for smoothing	B. D. Whitney	351,676	Oct. 26	2285	591, 592	37	437
Wood-surfacing machine	W. H. Gray	355,012	Dec. 28	1976	519, 520	37	1394
Wood, &c. Tool for cutting slots or kerfs in	F. W. Starr	345,397	July 13	832	209	36	155
Wood-cool	P. Hartmann	339,291	Apr. 6	553	.....	35	47
Wood-working machine	H. M. Albee	354,997	Dec. 28	1952	515	37	1390
Wood-working machine	J. Casey	353,539	Nov. 30	2547	679, 680	37	967
Wood-working machine	J. Hourigan	347,044	Aug. 10	778	207	36	617
Wood-working-machinery knife	J. B. Wood	350,520	Oct. 12	501	164	37	114
Wooden plates. Apparatus for cutting circular	J. M. Rhodes	352,003	Nov. 2	399	109	37	533
Wooden shovel	H. Middleton	352,341	Nov. 9	891	239	37	630
Wool. Apparatus for carbonizing and destroying vegetable matter in	J. P. Land	336,121	Feb. 16	1468	387	34	716
Wool-combing machine	W. Lund	355,186	Dec. 28	2223	587	37	1443
Wool-conveyer	G. F. Hall	344,525	June 22	2501	645	35	1409
Wool-drier	J. H. Lorimer	347,360	Aug. 17	1235	329	36	708
Wool-drying machine	J. H. Lorimer	336,928	Mar. 2	62	17	34	938
Wool-drying machine	J. Petrie, Jr., and J. Fielden	337,863	Mar. 16	1315	342	34	1175
Wool. Machine for feeding, opening, and mixing	S. R. Parkhurst	336,660	Feb. 23	2260	589	34	861
Wool. Machine for oiling and drying	T. Speight and H. W. Whitehead	345,185	July 6	531	136	36	97
Wool. Scouring	C. Toppan	338,896	Mar. 30	2633	.....	34	1426
Wool-scouring machine	C. P. Smith	342,812	June 1	51	13	35	1016
Wool-washer	F. G. and A. C. Sargent	354,245	Dec. 14	878	232	37	1173
Wool-washing machine	H. W. Church	339,379	Apr. 6	378	93	35	70
Work-bench	E. Enge	350,819	Oct. 12	1019	272	37	192
Work-box	J. W. Hoffman	349,096	Sept. 14	776	197	36	1192
Work-support	E. L. Mansfield	343,381	June 8	911	228	35	1180

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Work-supporting table. Changeable	J. P. T. Slade	351,214	Oct. 19	1585	415 416	37	303
Work table and basket. Combined	S. E. Ball	348,373	Aug. 31	2701	725	36	996
Woven fabric	G. Crompton	335,567	Feb. 9	673	177	34	567
Woven fabric	G. Crompton. (Reissue)	10,743	July 6	651	165	36	118
Woven fabric	D. B. Kerr	353,790	Dec. 7	190	52	37	1042
Woven fabric. Figured	W. Brown	354,767	Dec. 21	1639	.....	37	1320
Woven fabrics. Apparatus for stretching	W. Birch	349,139	Sept. 14	831	211 212	36	1203
Wrapper for coins and other small articles	F. O. Butterfield	335,054	Jan. 26	2173	577	34	422
Wrench: *See* Bung-bush wrench. Pipe and nut wrench. Combination-wrench. Railway nut-wrench. Ratchet-wrench. Pipe-wrench. Wire-twisting wrench.							
Wrench	C. H. Alapaw	341,986	May 18	1391	371	35	782
Wrench	F. Armstrong and N. W. Vandegrift	335,986	Feb. 9	1265	335	34	674
Wrench	A. J. Barnes	344,301	June 22	2184	560	35	1425
Wrench	H. Bornstein	338,707	Mar. 30	2490	659	34	1401
Wrench	J. D. Bowman	348,185	Aug. 31	2443	656	36	946
Wrench	W. H. Bradley	347,681	Aug. 17	1708	456	36	796
Wrench	M. E. Campfield	354,770	Dec. 21	1641	434	37	1320
Wrench	J. K. Clark	342,824	June 1	72	18	35	1019
Wrench	A. A. Coon	352,518	Nov. 16	1105	299	37	681
Wrench	A. H. Criley	349,249	Sept. 14	979	250	36	1232
Wrench	L. P. Croswell and C. A. Funk	340,488	Apr. 20	1989	510	35	370
Wrench	J. B. Dean	347,580	Aug. 17	1547	411	36	767
Wrench	M. J. Flanders	342,197	May 18	1671	446	35	834
Wrench	D. Follett	334,010	Jan. 12	704	194	34	140
Wrench	H. W. Getman	349,581	Sept. 21	1431	369	36	1329
Wrench	W. A. Hathaway	335,192	Feb. 2	150	38	34	468
Wrench	J. S. Huffman	348,522	Aug. 31	2914	784	36	1036
Wrench	A. Kindermann	338,078	Mar. 16	1610	420	34	1228
Wrench	F. Kruegermann	338,419	Mar. 23	2087	547	34	1325
Wrench	A. Langstrom	343,038	June 1	366	94	35	1074
Wrench	H. A. Larsen	334,077	Jan. 12	866	221	34	158
Wrench	J. G. Leslie	350,935	Oct. 19	1173	312	37	228
Wrench	J. Lussier	333,961	Jan. 5	634	174	34	120
Wrench	A. McNally	340,233	Apr. 20	1630	412	35	304
Wrench	J. H. Miller	333,963	Jan. 5	637	175	34	120
Wrench	J. W. Miller	342,119	May 18	1582	422	35	818
Wrench	J. D. Otstot	334,065	Jan. 12	821	225	34	161
Wrench	E. C. Palmer	337,986	Mar. 16	1495	388	34	1207
Wrench	J. M. and W. H. Parsons	352,260	Nov. 9	782	209	37	609
Wrench	M. Potter	341,768	May 11	1102	292	35	721
Wrench	W. J. Pulliam	350,602	Oct. 12	707	192	37	136
Wrench	J. Pusey	338,874	Mar. 30	2729	718	34	1444
Wrench	A. P. Quigley	341,503	May 11	737	199	35	649
Wrench	E. F. Rettberg and C. C. Ellis	335,481	Feb. 2	544	143	34	538
Wrench	C. C. Runyan	336,262	Feb. 16	1701	443	34	754
Wrench	J. and P. Ryan	339,813	Apr. 13	1036	257	35	190
Wrench	F. C. Sawhill	351,656	Oct. 26	2258	584	37	432
Wrench	H. G. Sellman	342,643	May 25	2339	618	35	963
Wrench	A. D. Ward	352,433	Nov. 9	1002	270	37	653
Wrench	M. S. Weller	340,393	Apr. 20	1858	477	35	346
Wrench	J. Wilcox	339,607	Apr. 6	745	183	35	131
Wrench	H. H. Wilson	343,940	June 15	1668	428	35	1326
Wrench	A. Wood	347,262	Aug. 10	1084	295	36	672
Wrench and lock. Combined	C. G. Wanenmacher	344,427	June 29	2362	608	35	1465
Wrench and spanner. Combined	J. R. Hopkins	347,042	Aug. 10	774	206	36	616
Wrench attachment	W. A. Kelly and C. H. Hubbell	347,179	Aug. 10	974	260	36	652
Wrench for twisting wire	L. A. Cussins and J. M. Overpeck	338,659	Mar. 23	2405	633	34	1380
Wrench for twisting wires	A. L. Zuck	354,079	Dec. 7	620	170	37	1119
Wrenches. Pipe-wrench attachment for monkey-	F. H. Seymour	337,627	Mar. 9	1012	260	34	1115
Wringer: *See* Clothes-wringer. Mop-wringer.							
Wringer	J. W. Weiser	335,981	Feb. 9	1258	334	34	672
Wringer-roll	D. Lampson	334,956	Jan. 26	2032	542	34	397
Writing-case	J. D. Colony	336,394	Feb. 16	1882	492	34	788
Writing-cop'es. Appliance for setting	E. D. Starr	345,553	July 13	1080	276	36	200
Writing. Hand-support for use in	J. L. Wyche	338,239	Mar. 16	1831	478	34	1272
Writing or blotting pad	J. M. Rimington	355,209	Dec. 28	2259	596	37	1450
Writing-teacher's cabinet	J. W. Lefevre	345,435	July 13	890	221 222	36	165
Yarn-cleaning device	J. A. Snyder	353,174	Nov. 23	2018	541	37	862
Yarn. Machine for balling	F. A. Clark	336,389	Feb. 16	1879	491	34	788
Yarn-reel	E. W. Horne	351,379	Oct. 26	1815	477	37	350
Yarn separating and warping machine	J. and A. Simoneau	351,536	Oct. 26	2080	539	37	399
Yarn-stripper	A. Shaver	334,904	Jan. 26	1965	523	34	386
Yarn-twisting machine	T. Briggs and E. Webb	341,792	May 11	1131	299	35	726
Yarn. Slasher for sizing and drying	W. F. Canning	346,639	Aug. 3	243	67	36	508
Yarn-winding machine	W. D. Huse	348,561	Sept. 7	25	7, 8	36	1053
Yarn-winding machines. Spindle for	W. D. Huse	348,560	Sept. 7	24	7	36	1053
Yarns or threads. Apparatus for manufacturing napped or filled	J. T. Waring	347,538	Aug. 17	1487	394 395	36	755
Yarns to the spindles on spinning jacks or mules in the operation of doffing. Mechanism for clamping	W. F. Durgin	342,787	June 1	19	6	35	1009
Yoke attachment. Neck-	R. Walker	345,557	July 13	1084	277	36	201
Yoke attachment. Safety neck-	G. F. Shulnburg	352,364	Nov. 9	917	245	37	636
Yoke center. Neck-	J. E. Carey	349,383	Sept. 21	1164	302	36	1277
Yoke center. Neck-	C. R. Furey	355,072	Dec. 28	2059	541	37	1410
Yoke center. Neck-	W. N. Sterner and W. L. Hawes	348,867	Sept. 7	441	118	36	1129

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Yoke coupling. Neck	A. B. Arnold	340,972	May 4	3	1	35	505
Yoke coupling. Neck	J. B. Lowman	350,688	Oct. 12	838	225	37	159
Yoke coupling. Neck	S. Maneer	333,768	Jan. 5	372	101	34	70
Yoke. Neck	L. Buob, Jr., and W. Jochum	346,802	Aug. 3	429	118	36	544
Yoke. Neck	D. W. Clarke	353,441	Nov. 30	2402	642	37	940
Yoke. Neck	R. T. Cook	334,938	Jan. 26	2005	534	34	393
Yoke. Neck	J. G. Elliott	344,092	June 22	1894	486	35	1373
Yoke. Neck	J. H. Hoggatt	347,604	Aug. 17	1581	430	36	774
Yoke. Neck	L. C. Loomis	340,952	Apr. 27	2629	692	35	490
Yoke. Neck	S. D. Mehew	334,791	Jan. 26	1826	487	34	360
Yoke. Neck	G. Meyers	341,674	May 11	984	260	35	697
Yoke. Neck	C. Shumen	344,289	June 22	2172	556	35	1422
Yoke. Neck	C. W. Tillett	344,324	June 22	2089	532	35	1406
Yoke. Ox	C. A. Brown	349,565	Sept. 21	1410	365	36	1325
Yoke retainer. Neck	J. H. Klinkner	343,037	June 1	366	94	35	1073
Zinc from its ores by means of gases. Extracting	C. H. Murray	350,148	Oct. 5	74	.....	37	17
Zincographic presses. Bed for	H. Goodwin	348,736	Sept. 7	274	73, 74	36	1098
Zither	C. F. Haupt	352,648	Nov. 16	1285	346	37	712
Zither	G. Osswald	351,710	Oct. 26	2322	604	37	445
Zither	C. H. Rahn	336,158	Feb. 16	1535	404, 405	34	726
Zylonite and other plastic compositions to form sheets. Reduction of	J. B. Edson	349,987	Sept. 28	1992	515	36	1443
Zylonite and other pyroxyline compounds and articles made therefrom. Manufacture of	J. G. Jarvis	342,208	May 18	1684	.....	35	837

ALPHABETICAL LIST OF DESIGNS.

Design.	Name.	No.	Date.	Official Gazette. Volume.	Official Gazette. Page.
Advertising-card for scarf-pins	W. R. Dutemple	16,787	July 13	36	124
Air-moistener	C. W. Monroe	16,783	July 6	36	2
Andiron	R. R. Seidensticker	16,872 16,873	Aug. 24	36	824
Andiron	F. R. Seidensticker	16,908	Sept. 21	36	1250
Ash-bowl	Z. Marx	16,573	Mar. 16	34	1162
Ax	T. Bakewell	16,631	Apr. 20	35	259
Badge	F. W. Child	16,670	May 4	35	503
Badge	C. S. Crossman	16,513	Feb. 9	34	563
Badge	J. K. Davison	16,671 16,672	May 4	35	503
Badge	J. K. Davison	16,745	June 22	35	1342
Badge	J. K. Davison	16,913	Sept. 28	36	1360
Badge	H. Elleau	16,544	Feb. 23	34	830
Badge	J. B. Howell	16,863	Aug. 24	36	823
Badge	J. F. Kelly	16,953	Oct. 26	37	342
Badge	J. Lukanitsch and W. H. Cosman	17,022	Dec. 7	37	1006
Badge	J. T. Mullen	16,711	May 25	35	878
Badge	E. H. Stegmann	16,813	July 20	36	236
Badge	W. H. Warner	16,975	Nov. 2	37	458
Badge	J. H. Whitehouse	16,647	Apr. 20	35	259
Badge or pin	F. Turner	16,667	Apr. 27	35	389
Badge-pin	E. L. Torsch and J. R. Lee	17,024	Dec. 14	37	1127
Bag	J. Lyall	17,041	Dec. 28	37	1360
Bag, &c. Traveling	C. H. Buchanan	16,608	Apr. 13	35	139
Banner-rod	G. R. Osborn	16,616	Apr. 13	35	140
Barometer-frame	F. Oertling	16,845	Aug. 10	36	574
Basin slab. Wash	W. Bunting, Jr	16,949	Oct. 26	37	342
Bath-tubs, &c. Leg for	W. C. Peet	16,784	July 6	36	2
Bed case. Folding	C. Teufel	16,851	Aug. 10	36	574
Bed frame. Folding	S. S. Burr	16,707	May 25	35	878
Bed-frame. Folding	L. E. Matuska	16,986	Nov. 16	37	678
Belt	C. H. Buchanan	16,495	Feb. 2	34	440
Book-mark	J. P. Ball	16,896	Sept. 14	36	1154
Bottle	D. F. Davids	16,520	Feb. 16	34	704
Bottle	S. F. Hayward	16,503	Feb. 2	34	440
Bottle	S. F. Hayward	16,562	Mar. 9	34	1050
Bottle	T. J. Hurley	16,864	Aug. 24	36	823
Bottle	F. Pfahl	16,549	Feb. 23	34	830
Bottle	J. T. Underwood	16,712	May 25	35	878
Bottle	M. Woolf	16,802	July 13	36	124
Bottle. Perfumery	D. R. Bradley	16,512	Feb. 9	34	563
Bottle-stopper	A. H. Wirz	16,992	Nov. 16	37	678
Bottles. Covering for toilet	F. Barnett	17,003	Nov. 30	37	896
Bouquet-holder	H. Tappan	17,023	Dec. 14	37	1127
Box	W. C. Estes	16,578	Mar. 23	34	1280
Box	S. F. Whitman	16,629	Apr. 13	35	140
Box	W. L. Young	16,823	July 27	36	350
Box-opener	F. C. Miller	16,604	Apr. 6	35	2
Bracket	G. S. Barkentin	16,947	Oct. 26	37	342
Bracket	W. I. Bunker	16,541	Feb. 23	34	830
Bracket	P. Connolly	16,744	June 22	35	1341
Bracket for springs	J. W. Kenna	16,571	Mar. 16	34	1162
Branding-iron	J. G. Kostmayer	17,021	Dec. 7	37	1006
Branding or marking tool	W. E. Banning	16,657	Apr. 27	35	389
Bridle-bit	W. Davis	16,758	June 29	35	1440
Bridle-bit	F. M. Gillham	17,040	Dec. 28	37	1360
Bridle-bits. Cheek or side piece for	J. M. Espinosa	16,521	Feb. 16	34	704
Bridle-rosette	W. F. Riker	16,596	Mar. 30	34	1394
Brooch or scarf-pin	E. L. Logee	16,717	June 1	35	1006
Broom holder. Whisk	G. W. Bronson	17,025	Dec. 21	37	1252
Broom holder. Whisk	J. H. Flinn	16,978	Nov. 9	37	570
Brush. Crumb	W. K. Northall	17,015	Dec. 7	37	1006
Buckets. Ornamentation of	J. I. Flanagen	16,477	Jan. 19	34	254
Bust	B. Dreyfuss	16,632	Apr. 20	35	259
Button	F. Turner	16,666	Apr. 27	35	389
Button-hook	F. W. Brittin	16,766	July 6	36	2
Cable-cord. Ornamental	T. R., R. T., and J. E. Lees	17,014	Dec. 7	37	1006
Call-box	H. Thau	17,002	Nov. 23	37	788
Cane knob or handle	J. N. Provenzano	16,502	Feb. 2	34	440
Cane or umbrella handle	P. Seehaus	16,796	July 13	36	124
Car body. Railway	A. B. Harris	16,659	Apr. 27	35	389
Card	C. E. Bullard	16,905	Sept. 21	36	1250
Card	W. A. Kelsey	16,674	May 4	35	503
Card. Playing	V. G. Merceron	16,868	Aug. 24	36	823
Cards, &c. Border for	C. E. Bullard	16,824	Aug. 3	36	460
Carpet	E. Fisher	16,470 to 16,476	Jan. 19	34	254

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Design.	Name.	No.	Date.	Official Gazette. Vol.	Official Gazette. Page.
Carpet	E. Fisher	16,825 to 16,829	Aug. 3	36	460
Carpet	D. G. Melville	16,510	Feb. 9	34	563
Carpet	D. G. Melville	16,554	Mar. 2	34	926
Carpet	E. G. Sauer	16,482	Jan. 19	34	254
Carpet	J. G. Speck	16,619 to 16,623	Apr. 13	35	140
Carpet	T. J. Stearns	16,494	Jan. 26	34	344
Carpet	T. J. Stearns	16,557	Mar. 2	34	926
Carpet	C. W. Swapp	16,837 to 16,839	Aug. 3	36	460
Carpet-sweeper wheel	E. T. Prindle	16,480	Jan. 19	34	254
Carriage-body	H. C. Sears	17,018	Dec. 7	37	1006
Carriages. Gear for children's	S. F. Boylston	16,539	Feb. 23	34	830
Casket	L. K. Smedes	16,463	Jan. 12	34	134
Casket-handle ear	O. F. Fogelstrand	16,465	Jan. 12	34	134
Chair	W. B. Savage	16,646	Apr. 20	35	259
Chair-back	P. T. Graves	16,924	Oct. 5	37	2
Chenille pendant	B. Dreyfus	16,601	Apr. 6	35	2
Chimney-top cap	J. B. Winter	16,754	June 22	35	1342
Cigar	G. D. Elges	16,951	Oct. 26	37	342
Clock-case	W. C. Camp	16,912	Sept. 28	36	1360
Clock-case	C. Casper	16,559	Mar. 9	34	1050
Clock-case	L. C. Hiller	16,591	Mar. 30	34	1394
Clock-case	L. C. Hiller	16,899	Sept. 14	36	1154
Clock-case	L. E. Jerome	16,900 16,901	Sept. 14	36	1154
Clock-case	F. Kroeber	16,756	June 22	35	1342
Clock-case and calendar	W. C. Camp	16,938	Oct. 12	37	103
Clock-dial	G. W. Bidwell	16,733	June 15	35	1231
Clock-stand	H. J. Müller	16,714	June 1	35	1005
Cloth	F. S. Pinkus	16,532	Feb. 16	34	704
Coach-bowl	J. Proeger	16,488	Jan. 19	34	254
Coffin-handle arm	O. McCarthy	16,893	Sept. 7	36	1048
Coffin-handle socket	W. M. Smith	16,576	Mar. 16	34	1162
Coffin-plate	W. E. Stevens	16,577	Mar. 16	34	1162
Coffin-screw	E. R. Surgent	16,679	May 4	35	504
Coffin-trimming	O. McCarthy	16,782	July 6	36	2
Coffin-trimming	O. McCarthy	16,897	Sept. 14	36	1154
Comb	F. V. Jones	16,681	May 11	35	631
Comb	F. V. Jones	16,691	May 18	35	753
Comb	F. V. Jones	16,710	May 25	35	878
Comb or brush box	W. F. Brown	16,765	July 6	36	2
Corkscrew	A. Trunk	16,799	July 13	36	124
Counter or table leg	J. Hofman	16,916	Sept. 28	36	1360
Cracker	D. F. Stauffer	16,848 16,849	Aug. 10	36	574
Cultivator-shovel. Wing	P. G. Johnson	16,889	Sept. 7	36	1048
Curtain fabric	C. Wheeler	17,045	Dec. 28	37	1360
Curtain fabrics, &c. Decoration of	C. Wheeler	16,730 to 16,732	June 8	35	1116
Curtain-loop	B. Dreyfus	16,543	Feb. 23	34	830
Dish	T. Davis	16,708	May 25	35	878
Dish	E. Gérard	16,633	Apr. 20	35	259
Dish	J. S. O'Connor	16,676	May 4	35	503
Dish	T. C. Smith	16,812	July 20	36	236
Dish	C. H. Treat and A. B. Banghart	17,035	Dec. 21	37	1252
Dish and table-ware	H. Lauterbin and E. Chetwynd	16,613	Apr. 13	35	140
Dish for table-service	C. E. Haviland	16,452	Jan. 5	34	2
Dish or table-ware	M. L. Blackburn	16,941	Oct. 19	37	221
Dishes or vessels. Ornamentation of	W. Leighton, Jr	16,994	Nov. 23	37	788
Doll	E. S. Peck	17,042	Dec. 28	37	1360
Door-mat	M. O'Connor	16,618	Apr. 13	35	140
Drawer-handle	J. J. Roux	16,587	Mar. 23	34	1260
Drawers. Skeleton frame for	T. Kundtz	16,882	Aug. 31	36	944
Ear-rings. Bow for	A. Hessels	16,611	Apr. 13	35	140
Easel	G. R. Osborn	16,617	Apr. 13	35	140
Easel	F. H. Tobias	16,511	Feb. 9	34	563
Easel and frame. Combined	J. and L. Schram	16,875	Aug. 24	36	824
Electric-battery zinc	I. W. Litchfield	16,492	Jan. 26	34	344
Envelope-machines. Link for drying-chains of	W. E. Preble	16,999	Nov. 23	37	788
Eyelet-machines. Frame for	H. L. Lipman	16,844	Aug. 10	36	574
Fabric	J. Phillips, Jr	16,919	Sept. 28	36	1360
Farm. Model of a pioneer	W. Kirkpatrick	16,738	June 15	35	1231
Fence-panels. Rail for	A. J. Griffin	16,939	Oct. 12	37	103
Fender	F. R. Seidensticker	16,909 16,910	Sept. 21	36	1250
Finger-ring	C. H. Pfeil	16,684	May 11	35	631
Finger-rings. Setting for	W. Dattelbaum	16,722	June 8	35	1116
Fire-place back	Q. S. Backus	16,489	Jan. 26	34	344
Fire-place plate	A. C. Mott	16,517	Feb. 9	34	564
Fork or spoon handle	E. T. Schoonmaker	17,043	Dec. 28	37	1360
Fork, spoon, &c	W. Wilkinson	17,011	Nov. 30	37	896
Fringe	G. F. Hensel	16,724	June 8	35	1116
Fringe	G. F. Heusel	16,907	Sept. 21	36	1250
Fringe	G. F. Hensel	16,932	Oct. 12	37	103
Fruit or table knife	F. W. Brittin	16,721	June 8	35	1116
Fruit. Inside wrapper for dried	F. S. Johnson	16,979	Nov. 9	37	570
Fruit-jar	W. H. Dilworth	16,817	July 27	36	350

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Game-box	R. Sneider	16,780	July 6	36	2
Gimp	J. P. Boesen	16,552	Mar. 2	34	926
Gimp	L. D. Haubner	16,651	Apr. 20	35	259
Gimp	I. H. Leiter	16,918	Sept. 28	36	1360
Gimp	L. Lindenthal	16,884	Aug. 31	36	944
Gimp	J. H. Thorp	16,551	Feb. 23	34	830
Gimp	C. Weinberg	16,962	Sept. 14	36	1154
Gimp. Furniture	C. W. Jackson	16,888	Sept. 7	36	1048
Glass vessel	A. Lang	16,560	June 29	35	1440
Glass vessel	W. G. Walter	16,607	Apr. 6	35	2
Glass vessel	W. A. Wood	16,720	June 1	35	1006
Glassware	J. E. Miller	16,997	Nov. 23	37	788
Glassware. Ornamentation of	G. E. Hatch	16,952	Oct. 26	37	342
Glassware. Ornamentation of	W. Leighton, Jr	16,995	Nov. 23	37	788
Globe. Crown	F. R. Gillinder	16,746	June 22	35	1342
Glove or mitt	O. T. Jennings	16,942 to 16,944	Oct. 19	37	221
Grate. Cellar	F. A. Peter	16,740	June 15	35	1231
Grate. Fire	J. Burkhardt	17,019	Dec. 7	37	1006
Hame-top	F. Frazer	17,026	Dec. 21	37	1252
Hammer	J. E. Selsor	16,729	June 8	35	1116
Handle	W. H. Berger	16,948	Oct. 26	37	342
Hangings, coverings, &c	C. Wheeler	16,469	Jan. 12	34	134
Hardware. Ornamentation of	G. S. Barkentin	16,656	Apr. 27	35	389
Hardware. Ornamentation of builders'	J. Lochner	16,892	Sept. 7	36	1048
Harness-ferret	G. M. Hubbard	16,569	Mar. 16	34	1162
Harrows. Disk for disk	C. La Dow	16,819	July 27	36	350
Heater-base	W. C. Baker	16,804	July 20	36	236
Hinge	R. Christesen	16,906	Sept. 21	36	1250
Hood	I. Hermann	16,933	Oct. 12	37	103
Horseshoe	T. F. Frederick	16,914	Sept. 28	36	1360
Hosiery	J. Phipps	16,501	Feb. 2	34	440
Hub-band	H. M. Fraser	16,602	Apr. 6	35	2
Hub-band	J. Simpson	16,624 to 16,627	Apr. 13	35	140
Hub-bands. Ornamentation of	S. Marks	16,603	Apr. 6	35	2
Hubs. Ornamentation of	J. Maris	16,467 16,468	Jan. 12	34	134
Hydrant	J. C. Kupferle	16,727	June 8	35	1116
Ice-cream mold	C. Drucklieb	16,840	Aug. 3	36	460
Index plate and nut	W. B. Tucker	16,874	Aug. 24	36	824
Indicator-cover	C. E. Dey	16,590	Mar. 30	34	1394
Ingot. Metal	F. B. Morrow	16,762	June 29	35	1440
Inkstand	W. A. Pike	16,453	Jan. 5	34	2
Inkstand	R. Sneider	16,847	Aug. 10	36	574
Inkstand and pen-rack. Combined	J. G. Winger	16,852	Aug. 10	36	574
Inner-sole linings. Ornamentation of	J. N. Moulton	16,663	Apr. 27	35	389
Ironing-machine frame	G. J. Fritz	16,788	July 13	36	124
Jewelry and pin cushion	C. Place	16,778	July 6	36	2
Jewelry-rack	C. Place	16,556	Mar. 2	34	926
Jewelry-stock	L. J. Withman	16,814	July 20	36	236
Keys. Ornamentation of	F. W. Mix	16,564	Mar. 9	34	1050
Kite-cover	J. H. Sprague	16,895	Sept. 7	36	1048
Knife-handle	A. W. Cox	16,781	July 6	36	2
Knife-handle	A. W. Cox	16,785	July 13	36	124
Knife-handle	I. F. Rubel	16,686 16,687	May 11	35	631
Knife-handle	I. F. Rubel	16,741 16,742	June 15	35	1231
Knife-handles. Ornamentation of	W. N. Kenyon	16,660 16,661	Apr. 27	35	389
Knife-handles. Ornamentation of	W. N. Kenyon	16,736 16,737	June 15	35	1231
Knives, forks, spoons, &c. Handle for	A. F. Jackson	17,007 17,008	Nov. 30	37	896
Knob	Z. T. Hall	16,515	Feb. 9	34	563
Label	F. Seely	16,779	July 6	36	2
Lace-pin	E. L. Logee	16,718	June 1	35	1006
Lace-pin	E. L. Logee	16,770	July 6	36	2
Lamp or gas globe	H. G. McFadden	16,509	Feb. 9	34	563
Lamp-body	K. Müller	16,964	Oct. 26	37	342
Lamp-body	W. L. Shepard	16,797	July 13	36	124
Lamp-holder	S. Clarke	16,950	Oct. 26	37	342
Lamp-pendant	B. B. Schneider	16,550	Feb. 23	34	830
Lamp-shade	F. W. Bach	16,903	Sept. 21	36	1250
Lamp-shade	F. W. Bach	16,911	Sept. 28	36	1360
Lamp-standard	P. E. Guerin	16,610	Apr. 13	35	140
Lamp-standard	P. E. Guerin	16,747	June 22	35	1342
Lamps, &c. Standard for	P. E. Guerin	16,790	July 13	36	124
Lamps, &c. Standard for	P. E. Guerin	16,857	Aug. 17	36	696
Latch-case	J. R. Payson, Sr	16,595	Mar. 30	34	1394
Leather and fabric. Ornamentation of	S. Loewenherz	16,683	May 11	35	631
Leather. Embossed	F. Frenzel	16,807	July 20	36	236
Leather for hand-bags and other fancy leather goods. Embossed	J. Mehl, Sr	16,486	Jan. 19	34	254
Leather, &c. Ornamentation of	S. Loewenherz	16,592 16,593	Mar. 30	34	1394
Lining. Quilted	A. Hildt	16,993	Nov. 23	37	788
Mantel-piece	E. Hardy	16,579	Mar. 23	34	1280
Mat	A. Spadone	16,982	Nov. 9	37	570
Match-box	A. H. Wirz	16,983	Nov. 9	37	570

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Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Medal	S. S. Newton	17,009	Nov. 30	37	896
Medal	C. C. Penfold	17,017	Dec. 7	37	1006
Molding	F. Mankey	16,456 to 16,457	Jan. 12	34	134
Molding	F. Mankey	16,523 to 16,527	Feb. 16	34	704
Molding	F. Mankey	16,653	Apr. 20	35	260
Molding	F. Mankey	16,655	Apr. 20	35	260
Molding	F. Mankey	16,860	Aug. 17	36	696
Molding	F. Mankey	16,955 to 16,958	Oct. 26	37	342
Muff	J. A. Spitzer	16,644	Apr. 20	35	259
Musical-scale pointer	L. A. F. B. Tayoux	17,034	Dec. 21	37	1252
Name-plate	F. C. Horn	16,690	May 18	35	753
Name-plate	W. C. Horn	16,689	May 13	35	753
Necktie	J. H. Fleisch	17,039	Dec. 28	37	1360
Oil-can head	L. E. and D. F. Bowker	17,038	Dec. 28	37	1360
Oil-cloth	J. Hutchison	16,865 to 16,866	Aug. 24	36	893
Oil-cloth	C. T. and V. E. Meyer	16,479	Jan. 19	34	254
Oil-cloth	C. T. and V. E. Meyer	16,582 to 16,585	Mar. 23	34	1280
Oil-cloth	C. T. and V. E. Meyer	16,693 to 16,706	May 18	35	753 754
Oil-cloth	C. T. and V. E. Meyer	16,771 to 16,776	July 6	36	2
Oil-cloth	C. T. and V. E. Meyer	16,967 to 16,971	Nov. 2	37	458
Oil-cloth	C. T. and V. E. Meyer	17,028 to 17,031	Dec. 21	37	1252
Organ-case	L. K. Fuller	16,497 to 16,498	Feb. 2	34	440
Ornamentation of walls, &c. Surface	F. Mankey	16,458	Jan. 12	34	134
Overshoe	H. I. Crampton	16,455	Jan. 12	34	134
Padlock-case	E. C. Manning	16,614	Apr. 13	35	140
Panel	F. Mankey	16,462	Jan. 12	34	134
Panel. Open-work	F. Mankey	16,459 to 16,461	Jan. 12	34	134
Panorama or map case	W. Bruce	16,540	Feb. 23	34	830
Paper box	E. C. and H. Osborn	16,831	Aug. 3	36	460
Paper-cutter	M. H. Kerner	16,843	Aug. 10	36	574
Paper-fastener	G. W. McGill	16,548	Feb. 23	34	830
Parasol	A. C. Hirsh	16,634	Apr. 20	35	259
Parasol or umbrella top	N. L. Séguin	16,597	Mar. 30	34	1394
Pen-protector	A. Fraser	16,491	Jan. 26	34	344
Pendant	C. A. Schmidt	16,752	June 22	35	1342
Perfumery-case	P. J. Baltteim	16,923	Oct. 5	37	2
Piano. Plate of an upright	P. Gmehlin	16,658	Apr. 27	35	389
Picture or looking-glass frame	B. S. Donahue	16,965	Nov. 2	37	458
Pin	P. C. Harbour	17,006	Nov. 30	37	896
Pin. Scarf	J. A. Bidwell	16,589	Mar. 30	34	1394
Pitcher, &c.	H. Berry	16,538	Feb. 23	34	830
Plaque. Memorial	C. M. Hall	16,768	July 6	36	2
Plows. Landside for	J. M. McConnell	16,996	Nov. 23	37	788
Pokers or like instruments. Handle for	E. M. Currier	16,786	July 13	36	194
Posing-chair	C. A. Schindler	16,493	Jan. 26	34	344
Potato-digger shovel	D. Feigly	16,464	Jan. 12	34	134
Printer's bodkin	A. Dwight	16,880	Aug. 31	36	944
Quilting	J. Happe	16,748 16,749	June 22	35	1342
Quilting	A. Hildt	16,563	Mar. 9	34	1050
Quilting and embroidery pattern	W. Koch	16,725 16,726	June 8	35	1116
Railway-rail	W. Wharton, Jr., and E. Samuel	16,764	June 29	35	1440
Range	D. S. Richardson	16,518	Feb. 9	34	564
Rattle. India-rubber	J. P. Rider	16,481	Jan. 19	34	254
Ring	G. Hartje	16,915	Sept. 28	36	1360
Rocking-chair	J. J. McElroy and A. D. Fancher	16,945	Oct. 19	37	221
Rosette	A. R. Fuller	16,887	Sept. 7	36	1048
Rubber boot or shoe	E. B. Preston	16,678	May 4	35	504
Rubber boot or shoe	F. M. Shepard	16,645	Apr. 20	35	259
Rubber mat	J. Murphy	16,574	Mar. 16	34	1162
Rubber rattle. India	G. W. Prall	16,755	June 22	35	1342
Rubber sole	W. Baum	16,904	Sept. 21	36	1250
Rubber sole	R. Cowen	16,757	June 29	35	1440
Ruching	G. H. Taylor	17,010	Nov. 30	37	896
Rug	H. Finck	16,496	Feb. 2	34	440
Rug	H. Finck	16,545	Feb. 23	34	830
Rug	J. C. Griffin	17,005	Nov. 30	37	896
Rug	R. P. Hemming	16,709	May 25	35	878
Rug	R. P. Hemming	16,759	June 29	35	1440
Rug	R. P. Hemming	16,769	July 6	36	2
Rug	M. Hirst and H. P. Robinson	16,966	Nov. 2	37	458
Rug	E. J. Lawrence	16,820	July 27	36	350
Rug	E. J. Lawrence	16,883	Aug. 31	36	944

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Design.	Name.	No.	Date.	Official Gazette. Vol.	Official Gazette. Page.
Rug	E. J. Lawrence	16,890 / 16,891	Sept. 7	36	1048
Rug	E. J. Lawrence	16,981	Nov. 9	37	570
Rug	J. Pegel	16,795	July 13	36	124
Rug	J. Pegel	16,832 to 16,835	Aug. 3	36	460
Rug	A. Petzold	16,487	Jan. 19	34	254
Rug	A. Petzold	16,500	Feb. 2	34	440
Rug	A. Petzold	16,555	Mar. 2	34	926
Rug	A. Petzold	16,638 to 16,641	Apr. 20	35	259
Rug	A. Petzold	16,751	June 22	35	1342
Rug	A. Petzold	16,809 / 16,810	July 20	36	236
Rug	A. Petzold	16,821	July 27	36	350
Rug	A. Petzold	16,846	Aug. 10	36	574
Rug	J. W. Shaw	16,922	Sept. 28	36	1360
Rug	W. T. Smith	17,033	Dec. 21	37	1252
Saddle. Harness	J. G. Merriman	16,867	Aug. 24	36	823
Saddle-tree	J. Bevan	16,976 / 16,977	Nov. 9	37	570
Safe	J. Farrel	16,806	July 20	36	236
Sash-fastener	W. Huttig, Sr., and N. Bast	16,507	Feb. 9	34	563
Sash lift. Window top	W. Heyser	16,652	Apr. 20	35	259
Sash-pulleys. Housing for	G. Kühn	16,980	Nov. 9	37	570
Saucepan	J. Ringen	16,566	Mar. 9	34	1050
Saucepan	J. Ringen	16,685	May 11	35	631
Saw-blade	J. J. Parker	16,869	Aug. 24	36	823
Scales. Support for the weigh-beams of	W. W. Reynolds	16,606	Apr. 6	35	2
Scarf	H Heath	16,791	July 13	36	124
Scarf	J. S. Tappan	17,001	Nov. 23	37	788
Scarf-pin	J. F. Morse	16,719	June 1	35	1006
Scarf-pin	A. F. Wehrle	16,504	Feb. 2	34	440
Seats. End support for	H. F. Parker	16,816	July 20	36	236
Sewing-machine arm	E. E. Angell	16,862	Aug. 24	36	823
Sewing-machine fixtures. Case for	C. M. Currey	16,735	June 15	35	1231
Shirt	S. S. Corson	16,898	Sept. 14	36	1154
Shoe	C. H. Buchanan	16,609	Apr. 13	35	139
Show-case	J. H. Mullan	16,987	Nov. 16	37	678
Side bar of rub-roll frames	H. L. Moulton	16,794	July 13	36	124
Sign	J. C. Burnell	16,743	June 22	35	1341
Sign	J. C. Burnell and J. Meyer	16,734	June 15	35	1231
Sign. Advertising	A. D. Giannini	16,984	Nov. 16	37	678
Sink-leg	I. J. Baxter	16,650	Apr. 20	35	259
Soap	S. C. Adler	16,928	Oct. 12	37	103
Soap. Cake	E. Zacharie	16,535	Feb. 16	34	704
Soap. Cake of	S. Palmer	16,960	Oct. 26	37	342
Soap. Cake of	J. E. Smith	16,588	Mar. 23	34	1280
Sofa	A. Stark	16,850	Aug. 10	36	574
Spoon and fork handle	H. W. Hirschfeld	16,713	June 1	35	1005
Spoon-handle	C. T. Grosjean	16,560 / 16,561	Mar. 9	34	1050
Spoon-handle	W. Wilkinson	16,688	May 11	35	631
Spoon or fork handle	H. W. Hirschfeld	16,568	Mar. 16	34	1162
Spoon or fork handle	A. A. Sperry	16,798	July 13	36	124
Spoon or like article. Handle for a	W. Rogers	16,642	Apr. 20	35	259
Spoons, forks, &c. Handle for	G. W. Shiebler	17,044	Dec. 28	37	1360
Spoons, &c. Handle for	C. Casper	16,506	Feb. 9	34	563
Spout or conductor. Water	O. P. Briggs	16,877	Aug. 31	36	944
Sprinkling-can	W. Wilkinson	16,822	July 27	36	350
Spurs. Pattern for	A. Buermann	16,767	July 6	36	2
Stall-guard	W. C. Peet	16,575	Mar. 16	34	1162
Statuary. Group of	J. Rogers	16,836	Aug. 3	36	460
Statuary. Group of	J. Rogers	16,894	Sept. 7	36	1048
Stove	C. W. Allen	16,937	Oct. 12	37	103
Stove	G. O. Bergstrom	17,036 / 17,037	Dec. 28	37	1360
Stove	F. Kahn	16,560	Mar. 23	34	1280
Stove	L. Kahn	16,581	Mar. 23	34	1280
Stove	J. F. Martens	16,935	Oct. 12	37	103
Stove	W. Masters	16,692	May 18	35	753
Stove	H. G Smith	16,940	Oct. 12	37	104
Stove	C. Wipfler and W. J. Keep	16,677	May 4	35	504
Stove and furnace. Heating	F. A. Magee and S. Van Vorst	16,985	Nov. 16	37	678
Stove. Cooking	J. W. Dwyer	16,929 to 16,931	Oct. 12	37	103
Stove. Cooking	W. J. Keep and C. Wipfler	16,750	June 22	35	1342
Stove. Cooking	W. J. Keep and C. Wipfler	16,830	Aug. 3	36	460
Stove. Cooking	J. F. Martens	16,664 / 16,665	Apr. 27	35	389
Stove. Cooking	J. S. Van Buren	16,800 / 16,801	July 13	36	124
Stove-door	T. B. Way	16,753	June 22	35	1342
Stove. Heating	C. H. Bradley	16,519	Feb. 16	34	704
Stove. Heating	J. V. B. Carter	16,805	July 20	36	236
Stove. Heating	O. Germer and C. G. Moulton	16,789	July 13	36	124
Stove. Heating	W. J. Keep and C. Wipfler	16,792	July 13	36	124
Stove. Heating	W. J. Keep and C. Wipfler	16,818	July 27	36	350
Stove. Heating	F. A. Magee and A. Garbutt	16,876	Aug. 24	36	824
Stove. Heating	I. T. Montross	16,793	July 13	36	124
Stove. Heating	A. C. Mott	16,654	Apr. 20	35	260

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Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Stove. Heating	C. Rohlfs	17,000	Nov. 23	37	788
Stove. Heating	T. White	16,483	Jan. 19	34	254
Stove. Heating	T. White	16,990 16,991	Nov. 16	37	678
Stove. Oil	C. O. Schwartz	16,628	Apr. 13	35	140
Stove or range	A. C. Mott and J. K. McLaughlin	16,586	Mar. 23	34	1280
Stove. Parlor	G. W. Wolfe and A. Lisewski	16,648 16,649	Apr. 20	35	259
Stove-pipe	P. J. Grinberg	16,547	Feb. 23	34	830
Stove-plate lifter	J. H. Alexander	16,598	Apr. 6	35	2
Stove. Top of a cooking	J. A. Marsh	16,662	Apr. 27	35	389
Stoves. Chamber-casing for	E. L. Calely	16,815	July 20	36	236
Surface ornamentation	F. Mankey	16,954	Oct. 26	37	342
Table	J. Ernewein	16,723	June 8	35	1116
Table-fountain	G. Brown	16,451	Jan. 5	34	2
Table-vessel	G. W. Fry	16,546	Feb. 23	34	830
Table vessel or dish	J. H. Lippincott	16,934	Oct. 12	37	103
Table-ware	T. Maddock	16,572	Mar. 16	34	1162
Table-ware	J. Willets and W. S. Lenox	16,534	Feb. 16	34	704
Tablet. Memorial	J. J. Phillips	16,565	Mar. 9	34	1050
Tapestry cloth	B. E. Kingman	16,926	Oct. 5	37	2
Telegraph-instruments. Frame for	M. Bacon	16,803	July 20	36	236
Terret. Harness	G. M. Hubbard	16,478	Jan. 19	34	254
Thermometers. Case for mechanical	E. W. Upton	16,989	Nov. 16	37	678
Tile	J. H. Hankinson	17,020	Dec. 7	37	1006
Tile	A. G. Parkhurst	16,777	July 6	36	2
Tile	D. H. Watts	16,668	Apr. 27	35	390
Tile-display stand	E. D. Morris	16,998	Nov. 23	37	788
Tobacco-pipe	F. J. Kaldenberg	16,570	Mar. 16	34	1162
Toy cannon. Trail-piece for	L. C. Bishop	16,856	Aug. 17	36	696
Toy money-box	J. A. Kieselhorst	16,675	May 4	35	503
Toy savings-bank	C. G. Shepard and P. Adams	16,728	June 8	35	1116
Tray	A. Ledig	16,612	Apr. 13	35	140
Tray	G. S. Skilton	17,032	Dec. 21	37	1252
Tray. Crumb	H. L. Palmer	16,959	Oct. 26	37	342
Tray. Crumb	H. L. Palmer	16,963	Oct. 26	37	342
Tray. Crumb	H. L. Palmer	16,974	Nov. 2	37	458
Trimming	R. Krause	16,859	Aug. 17	36	696
Trimming	B. Lipper	16,499	Feb. 2	34	440
Trunk-catch	T. L. Rivers	16,871	Aug. 24	36	823
Trunk-iron	J. H. Alexander	16,505	Feb. 9	34	563
Trunk-iron	J. H. Alexander	16,567	Mar. 16	34	1162
Trunk-lid lifter	G. Crouch	16,879	Aug. 31	36	944
Tubing. Metal	A. F. Pfeifer	16,763	June 29	35	1440
Tureen-handle	J. H. Alexander	16,630	Apr. 20	35	259
Tureen or dish	T. B. Atterbury	16,558	Mar. 9	34	1050
Type	H. Brehmer	16,599 16,600	Apr. 6	35	2
Type	W. F. Capitain	16,878	Aug. 31	36	944
Type	J. M. Conner	16,669	May 4	35	503
Type	J. M. Conner	16,660	May 11	35	631
Type	G. Hahn	16,673	May 4	35	503
Type	H. Ihlenburg	16,715	June 1	35	1006
Type	H. Ihlenburg	16,917	Sept. 28	36	1360
Type	W. W. Jackson	16,716	June 1	35	1006
Type	E. Lauschke	16,553	Mar. 2	34	926
Type	T. MacKellar	16,739	June 15	35	1231
Type	E. C. Ruthven	16,643	Apr. 20	35	259
Type-border	G. F. Giesecke	16,842	Aug. 10	36	574
Type-case	A. Dwight	16,881	Aug. 31	36	944
Type. Font of	W. F. Capitain	17,004	Nov. 30	37	896
Type. Font of	J. Guildenstine	16,514	Feb. 9	34	563
Type. Font of	C. E. Heyer	16,516	Feb. 9	34	563
Type. Font of printing	W. F. Capitain	17,013	Dec. 7	37	1006
Type. Font of printing	H. Ihlenburg	16,508	Feb. 9	34	563
Type. Font of printing	W. W. Jackson	16,536	Feb. 16	34	704
Type. Font of printing	A. Little	16,484 16,485	Jan. 19	34	254
Type. Font of printing	C. Schraubstadter, Jr.	16,946	Oct. 19	37	221
Type. Font of printing	C. Schraubstadter, Jr.	16,988	Nov. 16	37	678
Type ornament. Combination	J. Graham	16,522	Feb. 16	34	704
Type ornaments. Font of combination	J. West	16,920 16,921	Sept. 28	36	1360
Type. Printing	W. Barnhart	16,490	Jan. 26	34	344
Type. Printing	F. M. Powell	16,870	Aug. 24	36	823
Vase	M. W. Carr	16,542	Feb. 23	34	830
Vent-valve	A. J. Weatherhead	16,886	Aug. 31	36	944
Vessel or dish	J. E. Miller	16,594	Mar. 30	34	1394
Wagon body. Business	C. E. Husted	16,925	Oct. 5	37	2
Wall-paper	J. Baumgarten	16,454	Jan. 12	34	134
Wall-paper	W. N. Peak	16,936	Oct. 12	37	103
Wall-paper	W. N. Peak	16,961 16,962	Oct. 26	37	342
Wall-paper	W. N. Peak	16,973	Nov. 2	37	458
Wall-paper	W. N. Peak	17,016	Dec. 7	37	1006
Walls, &c. Surface ornamentation of	F. Mankey	16,528	Feb. 16	35	704
Walls. Surface ornamentation of	F. Mankey	16,529	Feb. 16	34	704
Walls, &c. Surface ornamentation of	F. Mankey	16,530	Feb. 16	34	704
Walls. Surface ornamentation of	F. Mankey	16,531	Feb. 16	34	704
Walls. Surface ornamentation of	F. Mankey	16,635 to 16,637	Apr. 20	35	259
Wash-board	J. T. Arnold	16,537	Feb. 23	34	830
Watch-case	G. Bapst and L. Falize	17,012	Dec. 7	37	1006

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette.	
				Vol.	Page.
Watch-case	J. D. Planchamp	16,605	Apr. 6	35	2
Watch-case	F. Rapp	16,885	Aug. 31	36	944
Watch-case or locket	A. Lorsch	16,808	July 20	36	236
Watch-crown	E. A. Marsh	16,466	Jan. 12	34	134
Watch-dials. Ornamentation of	A. O. Jennings	16,858	Aug. 17	36	696
Watch display-case	H. B. Sommer	16,927	Oct. 5	37	2
Watch or locket case	D. E. D. McMurray	17,027	Dec. 21	37	1252
Watch or locket case	V. Nivois	16,972	Nov. 2	37	458
Water-closet bowl and base	R. Carlisle	16,841	Aug. 10	36	574
Window-shade	B. Birnbaum	16,853 to 16,855	Aug. 17	36	696
Wire stand	W. R. Warner	16,533	Feb. 16	34	704
Work-box or toilet-case	C. W. Sawtelle	16,811	July 20	36	236
Woven fabric	J. R. MacColl	16,615	Apr. 13	35	140
Woven fabric	J. R. MacColl	16,761	June 29	35	1440

ALPHABETICAL LIST OF TRADE-MARKS.

Title.	Name.	No.	Date.	Official Gazette. Volume.	Official Gazette. Page.
Abdominal supporter	W. Teüfel	13,456	June 29	35	1440
Abietene or extract from the gum of pinus sabiniana	D. F. Fryer	12,919	Jan. 5	34	2
Abrasive paper	H. Behr & Co	13,203	Apr. 20	35	260
Abrasive paper	H. Behr & Co	13,451	June 29	35	1440
Accordions	J. F. Kalbe	13,389	June 15	35	1231
Accordions	W. Spaethe	12,959	Jan. 19	34	254
Acid phosphate of lime for baking-powder. Powdered	Provident Chemical Works	13,675	Sept. 21	36	1250
Acid phosphate of lime for baking-powder. Powdered	Provident Chemical Works	13,676	Sept. 21	36	1250
Acid phosphate of lime. Powdered	Provident Chemical Works	13,593	Aug. 24	36	824
Aerated water	R. B. Cater	12,913	Jan. 5	34	2
Agate. Articles having a surface in imitation of	American Enamel Company	12,951	Jan. 19	34	254
Agricultural implements	J. Dunn	13,346	June 1	35	1006
Agricultural implements	J. Dunn	13,438	June 22	35	1342
Ale	C. H. Evans	13,066	Mar. 2	34	926
Ale	G. F. Hewett	13,841	Nov. 30	37	896
Ale, porter, and stout	Greenway Brewing Company	13,006	Feb. 9	34	564
Alkalies, acids, and salts used industrially	Brunner, Mond & Co	13,834	Nov. 30	37	896
Alloys and metals used for anti-friction purposes. Certain metallic	E. A. C. Du Plaine	13,388	June 15	35	1231
Animal and fish products. Certain named	Normal Company	13,613	Aug. 24	36	824
Anti-explosive compounds used in kerosene-lamps and kerosene-stoves.	Heinrichs & Co	13,353	June 1	35	1006
Antiseptic, agricultural, horticultural, veterinary, and sanitary purposes. Substances used for	J. Ascough	13,493	July 13	36	124
Aperient water. Natural	A. Saxlehner	13,677	Sept. 21	36	1250
Apricots. Dried	Sherman, Marr & Higgins	13,566	Aug. 10	36	574
Artists' and draftsmen's materials. Certain named	E. G. Soltmann	13,056	Feb. 23	34	830
Asphaltum cakes or blocks	W. H. Delano	13,655	Sept. 14	36	1154
Awning-stripes—a woven cotton fabric	Gary Manufacturing Company	13,005	Feb. 9	34	564
Bagging for cotton	Anchincloss Brothers	13,628	Aug. 31	36	944
Baking-powder	H. C. Miller	13,703	Oct. 5	37	2
Baking-powder	Toledo Spice Company	13,027	Feb. 9	34	564
Bands or bale-ties. Wire	Kilmer Manufacturing Company	13,731	Oct. 12	37	104
Bareges and parisinas	W. Openhym & Sons	13,013	Feb. 9	34	564
Baskets	Badger Basket Manufacturing Company.	13,653	Sept. 14	36	1154
Bath-tubs and sinks	Standard Manufacturing Company	13,325	May 18	35	754
Battery used as a curative appliance for diseases of the eye, the ear, the nasal organs, &c. Pocket-	W. C. Wilson	13,081	Mar. 2	34	926
Beer	Anheuser-Busch Brewing Association.	13,194	Apr. 20	35	260
Beer	Anheuser-Busch Brewing Association.	13,195	Apr. 20	35	260
Beer	Anheuser-Busch Brewing Association.	13,196	Apr. 20	35	260
Beer	Anheuser-Busch Brewing Association.	13,197	Apr. 20	35	260
Beer	Anheuser-Busch Brewing Association.	13,198	Apr. 20	35	260
Beer	Anheuser-Busch Brewing Association.	13,199	Apr. 20	35	260
Beer	Anheuser-Busch Brewing Association.	13,200	Apr. 20	35	260
Beer	Anheuser-Busch Brewing Association.	13,368	June 8	35	1116
Beer	Buffalo Co-Operative Brewing Company.	13,516	July 20	36	236
Beer	H. Clausen & Son Brewing Company	12,986	Feb. 2	34	440
Beer	J. F. Ferrer	13,620	Aug. 31	36	944
Beer, ale, porter, and stout	Bauernschmidt & Marr	12,933	Jan. 12	34	134
Beer. Bottled	Southern Brewing Company	13,885	Dec. 14	37	1128
Beer. Lager-	C. Conrad & Co	13,064	Mar. 2	34	926
Beer. Lager-	A. Finck & Son	13,735	Oct. 19	37	221
Beer. Lager-	J. Wassmer	13,648	Sept. 7	36	1048
Beer. Lager-	P. Schoenhofen Brewing Company	13,055	Feb. 23	34	830
Beer. Lager-	P. Schoenhofen Brewing Company	13,147	Mar. 30	34	1394
Beer. Lager-	P. Schoenhofen Brewing Company	13,148	Mar. 30	34	1394
Bells and alarms for house-doors. Call-	N. J. Busby	13,733	Oct. 19	37	221
Belt fasteners. Machine-	Greene, Tweed & Co	13,831	Nov. 23	37	788
Belting	S. Kidder	13,604	Aug. 24	36	824
Belting of canvas, duck, and woven cotton	Chesapeake Belting Co	13,848	Dec. 7	37	1006
Beverage and nerve-stimulant. Healthful	Bay State Pharmacal Co	13,711	Oct. 12	37	104
Bicycles, tricycles, and other velocipedes	D. Rudge & Co	12,961	Jan. 19	34	254
Bird-food	H. I. Ireland	13,496	July 13	36	124
Biscuits	Henriot & Co	12,937	Jan. 12	34	134
Biscuits, crackers, and wafers	Van Derveer & Holmes Biscuit Company.	13,587	Aug. 17	36	696
Bitters	Brown Chemical Company of Baltimore City.	13,459	June 29	35	1440
Bitters	D. Flannery	13,350	June 1	35	1006
Bitters	T. Foulds & Son	13,067	Mar. 2	34	926

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Official Gazette. Page.
Bitters	Meagher Bros. & Co	13,877	Dec. 14	37	1128
Bitters	Wood, Pollard & Co	12,930	Jan. 5	34	2
Bitters and tonic. Stomach	A. A. Ulman	12,975	Jan. 26	34	344
Bitters. Botanic nerve	J. P. Miller	13,183	Apr. 13	35	140
Bitters. Malt	Duffy Malt Whiskey Company	13,682	Sept. 21	36	1250
Bitters. Medicinal	Dr. Petzold's German Bitters Company.	13,486	July 13	36	124
Bitters. Phosphorated	J. T. and A. C. Hall and J. M. Hedges	13,549	Aug. 10	36	574
Blacking. Shoe	Sunshine Blacking Company	13,726	Oct. 12	37	104
Blood balm. Botanic	Blood Balm Company	13,045	Feb. 23	34	830
Blood-purifier and a remedy for diseases of the liver and kidneys.	G. I. Nowitzky	13,374	June 8	35	1116
Blood-purifiers, tonics, pills, teas, powders, and drops	X. Herberg	13,109	Mar. 16	34	1162
Bluing	J. W. Hack	13,916	Dec. 21	37	1252
Bolting-cloth	C. S. Escher	13,581	Aug. 17	36	696
Books of duodecimo size	Porter & Coates	13,298	May 11	35	632
Boot and shoe	Guthmann, Carpenter & Telling	13,230	Apr. 27	35	390
Boot and shoe	Guthmann, Carpenter & Telling	13,231	Apr. 27	35	390
Boots and shoes	Bemis & Fletcher	13,608	Aug. 24	36	824
Boots and shoes. Certain	Sharp, Clarke & Co	13,338	May 25	35	878
Boots and shoes. Entire class of	Laird, Schober & Mitchell	13,268	May 4	35	504
Boots and shoes for men, women, and children	F. M. Blackstone	13,257	May 4	35	504
Boots and shoes made of kid leather. All	Laird, Schober & Mitchell	13,269	May 4	35	504
Boots and shoes. Men's and boys'	M. D. Wells & Co	13,525	July 20	36	236
Boots and shoes. Wearing-plates for	A. W. Greenwood	13,926	Dec. 28	37	1360
Boots. Felt	W. C. and J. H. Brooks	13,129	Mar. 30	34	1394
Boring-machines	T. B. A. David	13,229	Apr. 27	35	390
Braids used on men's coats and vests and ladies' cloaks and dresses.	Lesher, Whitman & Co	13,442	June 22	35	1342
Bronze in ingots and wire and castings. Phosphor	Phosphor Bronze Company	13,337	May 25	35	878
Brooms	Broom Makers' Protective Union	13,818	Nov. 23	37	788
Brooms	C. W. Spencer	13,826	Nov. 23	37	788
Buckles	Geoffroy Frères	13,261	May 4	35	504
Builders' materials. Certain	Newark Lime and Cement Manufacturing Company.	13,237	Apr. 27	35	390
Bustles	A. H. Brinkmann	13,206	Apr. 20	35	260
Bustles	Canfield Rubber Company	13,707	Oct. 5	37	2
Bustles	Canfield Rubber Company	13,708	Oct. 5	37	2
Bustles	Canfield Rubber Company	13,772	Nov. 2	37	458
Butter	Fox River Butter Company	13,643	Sept. 7	36	1048
Butter. Creamery	G. W. Simpson	13,524	July 20	36	236
Butter-scotch or taffy	W. F. Parker	13,555	Aug. 10	36	574
Butternut taffy and nut candy	J. Benjamin	13,654	Sept. 14	36	1154
Buttons	G. Cramer & Kauffeld	13,828	Nov. 23	37	788
Buttons for sleeves and collars. Lever	R. S. Cutting	13,174	Apr. 13	35	140
Cakes, crackers, biscuits, snaps, jumbles, prepared flours, and confections.	T. R. Herd & Co	13,213	Apr. 20	35	260
Cakes or crackers designated nuts	W. G. Wilson	13,324	May 18	35	754
Calf-skins	Patzowsky & Co	13,420	June 15	35	1232
Calf-skins, morocco, sheep-skins, and patent-leather	Mayer, Michel & Deninger	13,552	Aug. 10	36	574
Calf-skins, morocco, sheep-skins, and patent-leather	Mayer, Michel & Deninger	13,633	Aug. 31	36	944
Can-stock, cans, range-boilers, coal-hods, pails, buckets, pans, soda-fountains, milk-cooler, &c.	Iron Clad Manufacturing Company	13,233	Apr. 27	35	390
Candy	M. Dawson	13,032	Feb. 16	34	704
Candy	Sommer, Richardson & Co	13,512	July 20	36	236
Canned corn	Kemp, Day & Co	13,112	Mar. 16	34	1162
Canned corn	McConnell, Clancey & Co	13,665	Sept. 14	36	1154
Canned corn	McConnell, Clancey & Co	13,760	Oct. 26	37	342
Canned corn	H. Zoller	13,458	June 29	35	1440
Canned corn, tomatoes, and other vegetables	S. N. Hyde	13,292	May 11	35	632
Canned fish or salmon	Knappton Packing Company	13,335	May 25	35	878
Canned fruits and vegetables	Reid, Murdoch & Fischer	13,724	Oct. 12	37	104
Canned fruits, vegetables, fish, &c	Eckman & Peterson	13,658	Sept. 14	36	1154
Canned goods	Platt & Co	13,910	Dec. 21	37	1252
Canned goods	Warner & Rhodes	13,913	Dec. 21	37	1252
Canned goods. Certain	G. W. Aldrich	13,102	Mar. 16	34	1162
Canned oysters	L. W. Atwood	13,465	July 6	36	2
Canned oysters	Platt & Co	13,838	Nov. 30	37	896
Canned oysters, fruits, and vegetables	G. W. Orem, Jr	13,267	May 4	35	504
Canned salmon or fish	North Shore Packing Company	13,238	Apr. 27	35	390
Canned salmon or fish	North Shore Packing Company	13,239	Apr. 27	35	390
Canned sugar-corn	C. P. Mattocks	13,476	July 6	36	2
Canned tomatoes	S. R. & S. L. Hewlett	13,899	Dec. 21	37	1252
Canned tomatoes	H Zoller	13 457	June 29	35	1440
Caps. Fur	L. Meyer	13,418	June 15	35	1232
Carbonated beverage	C. Beck	13,579	Aug. 17	36	696
Carpets ribbed upon both faces	W. E. Montague	13,606	Aug. 24	36	824
Carpets. Velvet	S. Sanford & Sons	13,069	Mar. 2	34	936
Carriage-top dressing. Dodge's clarified petroleum	W. D. Dodge & Co	13,923	Dec. 28	37	1360
Carriages and carriage-springs	J. H. Snodgrass	13,773	Nov. 2	37	458
Cashmeres	W. Openhym & Sons	13,016	Feb. 9	34	564
Cassimeres. Cotton and woolen	J. M. Brown & Co	12,943	Jan. 12	34	134
Catalogues	Butler Bros	12,934	Jan. 12	34	134
Catalogues	Butler Bros	12,935	Jan. 12	34	134
Cement commonly known as Portland cement	Knight, Bevan & Sturge	13,782	Nov. 2	37	458
Cement. Hydraulic	Union Cement Company	13,683	Sept. 21	36	1250
Cement. Portland	London Portland Cement Company	13,930	Dec. 28	37	1360
Cement. Portland	Vorwohler Portland Cement Fabrik, Prissing, Planck and Company.	13,568	Aug. 10	36	574
Cements. Portland, Keene's, Roman, and hydraulic	Siebel & Matthaei	13,625	Aug. 31	36	944
Chains. Detachable drive	Link Belt Machinery Company	13,805	Nov. 16	37	678
Chains. Gold	A. Wallach's Nephews	13,117	Mar. 16	34	1162
Chamois-skins for polishing metal. Prepared	E. Blakeslee and J. E. Darby	13,044	Feb. 23	34	830
Cheese	A. G. Turner	13,888	Dec. 14	37	1128

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Official Gazette. Page.
China and earthenware. Dinner, tea, and table	G. Jones & Sons	13,441	June 22	35	1342
China, stoneware, terra-cotta, and statuary porcelain	Villeroy & Boch	13,567	Aug. 10	36	574
China-ware	Tressemanes & Vogt	13,224	Apr. 20	35	260
Chocolate and cocoa	Gebr. Stollwerck	13,321	May 18	35	754
Chocolate and cocoa	Gebr. Stollwerck	13,323	May 18	35	754
Chocolate and cream and of cocoa and cream. Various preparations of	H. McCobb	13,145	Mar. 30	34	1394
Chocolate. Preparation of	H. O. Wilbur & Sons	13,141	Mar. 30	34	1394
Cider. Apple	Reid, Murdoch & Fischer	13,434	June 22	35	1342
Cider, fruits, and other fermentable substances. Preservatives of	W. D. Harnist	13,716	Oct. 12	37	104
Cigarettes	G. A. Scott	13,245	Apr. 27	35	390
Cigars	J. M. Aydelott	13,369	June 8	35	1116
Cigars	Bances & Suarez	13,154	Apr. 6	35	2
Cigars	F. Becker	13,732	Oct. 19	37	221
Cigars	Davis Brothers	13,209	Apr. 20	35	260
Cigars	E. H. Gato	13,212	Apr. 20	35	260
Cigars	P. Gelpi & Bro	13,068	Mar. 2	34	926
Cigars	Hargitt & Mackle	13,371	June 8	35	1116
Cigars	F. P. Norton	13,122	Mar. 23	34	1280
Cigars	Solis Cigar Company	13,884	Dec. 14	37	1128
Cigars	F. Turner	13,250	Apr. 27	35	390
Cigars	F. Turner	13,765	Oct. 26	37	342
Cigars	Van Pietersom Bros	13,251	Apr. 27	35	390
Cigars and cigarettes	R. Allones	13,514	July 20	36	236
Cigars and cigarettes	C. L. Pratt	13,821	Nov. 23	37	788
Cigars and cigarettes	C. L. Pratt	13,822	Nov. 23	37	788
Cigars and cigarettes	G. A. Scott	13,125	Mar. 23	34	1280
Cigars and stogies	S. R. Klotts	13,265	May 4	35	504
Cigars, cigarettes, and smoking and chewing tobacco	W. Duke, Sons & Company	13,119	Mar. 23	34	1280
Cigars, cigarettes, and smoking and chewing tobacco	W. Glaccum	13,533	Aug. 3	36	460
Cigars, cigarettes, manufactured tobacco, and snuff	Downing Cigar Manufacturing Company	13,311	May 18	35	754
Clothes and furnishing goods for men and boys	G. S. Butler	13,485	July 13	36	124
Cocks and stops and boxes for the same for water and gas supply pipes. Stationary stop-	F. Adee & Co	13,308	May 18	35	754
Cocoa and chocolate	C. J. Van Houten & Zoon	13,638	Aug. 31	36	944
Cod-liver oil and plain cod-liver oil. Emulsion of	D. M. Stiger & Co	13,190	Apr. 13	35	140
Coffee	A. F. Damon & Co	13,640	Sept. 7	36	1048
Coffee	W. Granger	13,662	Sept. 14	36	1154
Coffee	W. H. Milnor & Co	13,336	May 25	35	878
Coffee	S. B. Shapleigh & Co	13,748	Oct. 19	37	222
Coffee	J. Speidel & Co	13,586	Aug. 17	36	696
Coffee and spice mills. Certain products of	Reid, Murdoch & Fischer	13,242	Apr. 27	35	390
Coffee. Mocha	J. W. O'Shaughnessy	13,592	Aug. 24	36	824
Coffee. Roasted	H. C. Lows	13,759	Oct. 26	37	342
Coffee. Roasted	Mayer Brothers & Co	13,551	Aug. 10	36	574
Coffee. Roasted and ground	Maynard & Irwin	13,216	Apr. 20	35	260
Coffee. Roasted ground and unground	Martin Bros	13,672	Sept. 21	36	1250
Coffee. Roasted ground and unground	Martin Bros	13,673	Sept. 21	36	1250
Coffee, tea, and chocolate. Substitute for	Gebr. Stollwerck	13,322	May 18	35	754
Coffees	J. P. Johnson & Co	13,262	May 4	35	504
Coffees. Packed and ground	P. J. Towle & Co	13,249	Apr. 27	35	390
Coffees, roasted or green	W. H. Milnor & Co	12,924	Jan. 5	34	2
Colic-cure, condition-powders, liniment, and hoof-ointment	C. U. Saunders	13,725	Oct. 12	37	104
Cologne	Fleming Bros	13,873	Dec. 14	37	1128
Cologne-water and other perfumery	F. Hoyt & Co	13,651	Sept. 7	36	1048
Colored powder of the nature of flock	R. H. Bragdon	12,979	Feb. 2	34	440
Coloring-matter and chemical goods to which such coloring-matter is applied.	C. Lowe & Co	12,962	Jan. 19	34	254
Colors for glass painting, and a powder in the nature of flock, called "Plushette."	R. H. Bragdon	13,790	Nov. 9	37	570
Colors. Pigment	Badische Anilin & Soda-Fabrik	13,871	Dec. 14	37	1128
Compound for exterminating prairie-dogs, ground-squirrels, gophers, rats, and mice.	J. Hausman and S. V. B. Brown	13,591	Aug. 24	36	824
Compound for exterminating prairie-dogs, ground-squirrels, gophers, rats, and mice.	J. Hausman and S. V. B. Brown	13,611	Aug. 24	36	824
Compound for the treatment of female complaints	J. E. Markle	13,562	Aug. 10	36	574
Compound for the treatment of piles	W. Gifford	13,327	May 25	35	878
Compound of herbs, barks, and roots for the cure of consumption, bronchitis, asthma, &c.	A. B. Grover and N. M. Diamond	13,330	May 25	35	878
Compound or quieting-sirup for children. Fluid	N. Jacques	13,263	May 4	35	504
Condiments and sauces	P. & J. Nicholson	13,219	Apr. 20	35	260
Cordage and binders' twine. Manila and sisal	Akron Twine and Cordage Company	12,932	Jan. 12	34	134
Cordials	J. Cohen	13,680	Sept. 21	36	1250
Cords, lines, twines, and ropes	Silver Lake Company	13,540	Aug. 3	36	460
Cords, lines, twines, and ropes	Silver Lake Company	13,541	Aug. 3	36	460
Cords, lines, twines, and ropes	Silver Lake Company	13,542	Aug. 3	36	460
Corn-remover	Leonard & Co	13,644	Sept. 7	36	1048
Corn salve	E. W. Schade	13,272	May 4	35	504
Corn. Shelled	E. B. Crofut & Co	13,106	Mar. 16	34	1162
Corn meal. Indian	Hillhouse & Day	13,332	May 25	35	878
Corset-covers	B. Altman	13,118	Mar. 23	34	1280
Corsets	B. Altman	13,811	Nov. 23	37	788
Corsets	Bay State Corset Company	12,911	Jan. 5	34	2
Corsets	Bay State Corset Company	12,912	Jan. 5	34	2
Corsets	M. Cohn	13,906	Dec. 21	37	1252
Corsets	J. R. Freud	13,894	Dec. 21	37	1252
Corsets	D. Rosenthal & Co	13,303	May 11	35	632
Corsets	X. Stiegler, Jne., and J. Cargemel	13,616	Aug. 24	36	824
Corsets	Warner Brothers	13,492	July 13	36	124
Corsets	Warner Bros	13,862	Dec. 7	37	1006
Corsets	Weedsport Skirt and Dress Co	13,192	Apr. 13	35	140
Corsets	Worcester Corset Co	13,743	Oct. 19	37	222

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Corsets and other named health and surgical appliances. Anatomical health	S. A. Drewey	13,210	Apr. 20	35	260
Corsets, dress-stiffenings, and waists	E. K. Warren	13,140	Mar. 30	34	1394
Corsets. Ladies'	Simpson, Crawford & Simpson	13,078	Mar. 2	34	926
Cosmetic	H. H. Ayer	13,310	May 18	35	754
Cotton and silk on spools, yarns, and twists	I. Einhorn	13,855	Dec. 7	37	1006
Cotton and silk on spools, yarns, buttons, tapes, braids, and twists.	I. Einhorn	13,856	Dec. 7	37	1006
Cotton cloth	Arnold Print Works	13,526	July 27	36	350
Cotton cloth. Light	Turner's Falls Cotton Mills	13,749	Oct. 19	37	222
Cotton duck	J. Dunn	13,344	June 1	35	1006
Cotton duck	J. Dunn	13,436	June 22	35	1342
Cotton fabrics	J. R. MacColl	13,858	Dec. 7	37	1006
Cotton fabrics	J. Wright	13,307	May 11	35	632
Cotton goods	Arnold Print Works	13,397	June 15	35	1232
Cotton goods	Arnold Print Works	13,398	June 15	35	1232
Cotton goods	Arnold Print Works	13,399	June 15	35	1232
Cotton goods	Boott Cotton Mills	13,341	June 1	35	1006
Cotton goods. Bleached, brown, and colored	Low, Harriman & Co	13,162	Apr. 6	35	2
Cotton goods. Bleached, brown, and colored	Low, Harriman & Co	13,215	Apr. 20	35	260
Cotton goods. Light-weight	Turner's Falls Cotton Mills	13,750	Oct. 19	37	222
Cotton goods. Woven	Massachusetts Cotton Mills	13,903	Dec. 21	37	1252
Cotton, half-woolen, and half silk goods	Mechanische Weberei zu Linden	13,468	July 6	36	2
Cotton piece-goods	H. G. Woodruff	12,949	Jan. 12	34	134
Cotton. Spool	C. F. Murphy	13,165	Apr. 6	35	2
Cough, cold, croup, and consumption cure, and a liniment	N. C. Search	13,685	Sept. 21	36	1250
Cough-drops	T. Hinrichs	13,086	Mar. 9	34	1050
Cough remedies	J. A. Fischer	13,177	Apr. 13	35	140
Cough-sirup	J. W. Newburne & Co	13,053	Feb. 23	34	830
Cough-sirup. Bronchial	N. P. Fetterman	13,660	Sept. 14	36	1154
Coughs, colds, and lung diseases. Preparation for treatment of	J. J. Mack & Co	13,182	Apr. 13	35	140
Coverlets and rugs of sheep's wool, camels' and other animals' hair.	Greve & Uhl	13,352	June 1	35	1006
Crackers	J. W. Smither	13,647	Sept. 7	36	1048
Crackers	Sommer, Richardson & Co	13,511	July 20	36	236
Cream tartar and bicarbonate soda powder	A. and G. Meyer	13,296	May 11	35	632
Crystal or potash. Washing	P. C. Tomson	13,169	Apr. 6	35	2
Cultivators. Straddle-row	C. W. Post	13,771	Nov. 2	37	458
Cure for nasal catarrh, cold, and hay-fever	F. E. Engelman	12,915	Jan. 5	34	2
Cutlery, hardware, and agricultural implements	T. Drysdale & Co	13,474	July 6	36	2
Cutlery. Pocket and table	New York Knife Company	13,009	Feb. 9	34	564
Cutlery solely. Pocket and table	New York Knife Company	13,498	July 13	36	124
Cutlery. Table, pocket, and other	G. Peters	13,400	June 15	35	1232
Dandruff cure	W. Cheesman	13,208	Apr. 20	35	260
Dentifrice or tooth-wash	M. A. & C. A. Santos	13,565	Aug. 10	36	574
Dog-biscuit and substances and preparations for feeding pheasants and other game-birds and poultry.	Spratt's Patent	13,693	Sept. 28	36	1360
Drawing materials and instruments	E. G. Soltmann	13,867	Dec. 14	37	1127
Drawing materials and instruments. Certain	E. G. Soltmann	13,094	Mar. 9	34	1050
Drawing materials and instruments. Certain	E. G. Soltmann	13,248	Apr. 27	35	390
Drawing materials. Certain named	E. G. Soltmann	13,602	Aug. 24	36	824
Dress fabrics of silk, wool, or cotton	Megroz, Portier, Grose & Co	13,645	Sept. 7	36	1048
Dressing, polish, or blacking for shoes or leather	Button & Ottley	13,062	Mar. 2	34	926
Duck	Gambrill Sons & Co	12,955	Jan. 19	34	254
Dye-stuffs or coloring-matters	Badische Anilin & Soda-Fabrik	13,870	Dec. 14	37	1128
Dyspepsia and malaria cure	W. J. Missimer	13,164	Apr. 6	35	2
Earthenware and china	Doulton & Co	13,880	Dec. 14	37	1128
Edge-tools	J. Dunn	13,345	June 1	35	1006
Edge-tools. All descriptions of	J. Dunn	13,437	June 22	35	1342
Embalming-fluid	C. B. Dolge	13,532	Aug. 3	36	460
Emery-wheels	New York Belting and Packing Company.	13,538	Aug. 3	36	460
Essence consisting of medicinal herbs and flowers extracted and refined with wine and alcohol. Vinous	W. B. Fayen	13,659	Sept. 14	36	1154
Extract of acid iron earth	Acid Earth Mining and Manufacturing Company.	13,151	Apr. 6	35	2
Extracts of beef. Solid and liquid	W. F. Schmoele & Co	13,824	Nov. 23	37	788
Extracts of beef. Solid and liquid	W. F. Schmoele & Co	13,825	Nov. 23	37	788
Feathers for bedding purposes	F. A. Hall	13,313	May 18	35	754
Feathers, ostrich-feathers, and feather trimmings. Fancy	E. Lewinsohn	13,373	June 8	35	1116
Feeding pheasants and other game-birds and poultry. Substances and preparations for	Spratt's Patent	13,689	Sept. 28	36	1360
Feeding pheasants and other game-birds and poultry. Substances and preparations for	Spratt's Patent	13,691	Sept. 28	36	1360
Felts and felt boots and shoes. Paper-makers' and printers'.	Huyck & Argersinger	13,769	Nov. 2	37	458
Fertilizer for diseased orange-trees	J. F. Prince	13,092	Mar. 9	34	1050
Finger-rings	Wheeler, Parsons & Hayes	13,705	Oct. 5	37	2
Fire-extinguishers called hand-grenades. Chemical	F. Bolton	13,258	May 4	35	504
Fire-places and open grates	W. H. Jackson & Co	13,791	Nov. 9	37	570
Fish. Salt	D. C. Stull	13,221	Apr. 20	35	260
Flakes or grits prepared from the cereals.	A. M. Johnston Oatmeal Company	13,089	Mar. 9	34	1050
Florida water	McKesson & Robbins	13,878	Dec. 14	37	1128
Flour	S. H. Cockrell & Co	13,560	Aug. 10	36	574
Flour	C. A. Hammond & Co	13,697	Sept. 28	36	1360
Flour	Riverton Mills Co	13,706	Oct. 5	37	2
Flour	F. W. Smith	13,079	Mar. 2	34	926
Flour	Washburn, Crosby & Co	13,253	Apr. 27	35	390
Flour	S. W. Weidler	13,889	Dec. 14	37	1128
Flour	S. W. Weidler	13,936	Dec. 28	37	1360
Flour	S. W. Weidler and T. W. Allen	13,028	Feb. 9	34	564
Flour	S. W. Weidler and T. W. Allen	13,029	Feb. 9	34	564
Flour	S. W. Weidler and T. W. Allen	13,042	Feb. 16	34	704
Flour	S. W. Weidler and T. W. Allen	13,043	Feb. 16	34	704
Flour	Williams Bros	13,275	May 4	35	504

Alphabetical list of trade-marks—Continued.

Title.	Name.	No	Date.	Official Gazette. Vol.	Official Gazette. Page.
Flour. Fancy	J. A. Dunn & Co	13,734	Oct. 19	37	221
Flour made for exportation to tropical countries	W. T. Jeffery	13,432	June 22	35	1342
Flour. Roller-process wheat	Heyman & Co	13,110	Mar. 16	34	1162
Flour. Self-raising	G. W. Buhrman	13,915	Dec. 21	37	1252
Flour. Straight family	F. A. Johnston	12,920	Jan. 5	34	2
Flour. Wheat	Central Milling Company	12,914	Jan. 5	34	2
Flour. Wheat	Columbia Mill Company	13,429	June 22	35	1342
Flour. Wheat	Columbia Mill Company	13,430	June 22	35	1342
Flour. Wheat	Columbia Mill Company	13,796	Nov. 9	37	570
Flour. Wheat	Dunlop & McCance	13,034	Feb. 16	34	704
Flour. Wheat	Dunlop & McCance	13,035	Feb. 16	34	704
Flour. Wheat	Dunlop & McCance	13,036	Feb. 16	34	704
Flour. Wheat	Dunlop & McCance	13,037	Feb. 16	34	704
Flour. Wheat	J. F. Ferrer	13,406	June 15	35	1232
Flour. Wheat	J. F. Ferrer	13,407	June 15	35	1232
Flour. Wheat	J. F. Ferrer	13,408	June 15	35	1232
Flour. Wheat	J. F. Ferrer	13,409	June 15	35	1232
Flour. Wheat	Heywood & Williams	12,954	Jan. 19	34	254
Flour. Wheat	W. Lea & Sons Company	13,071	Mar. 2	34	926
Flour. Wheat	W. Lea & Sons Company	13,128	Mar. 23	34	1280
Flour. Wheat	Reid, Murdoch & Fischer	13,762	Oct. 26	37	342
Flour. Wheat	Reid, Murdoch & Fischer	13,879	Dec. 14	37	1128
Flour. Wheat	Schoellkopf & Mathews	13,186	Apr. 13	35	140
Flour. Wheat	Sidle, Fletcher, Holmes Company	13,402	June 15	35	1232
Flour. Wheat	Washburn Mill Company	13,170	Apr. 6	35	2
Food. Composition stock	E. W. and N. H. Blatchford	13,205	Apr. 20	35	260
Food for calves	S. Phillips	12,991	Feb. 2	34	440
Food for dogs, cats, poultry, and other animals Preparations of	Spratt's Patent	13,694	Sept. 28	36	1360
Food. Infants	E. Loeflund	13,507	July 20	36	236
Food products, as designated. Phosphatic	Provident Chemical Works	13,674	Sept. 21	36	1250
Foundry-facings and stove-polish	E. D. Ransom	13,401	June 15	35	1232
Fruit-preserves, lime-juice, fruit-sirups, canned fish, oysters, and turtles.	G. S. Valls	13,051	Feb. 23	34	830
Fruits. Dried	Noerdlinger & Brother	13,135	Mar. 30	34	1394
Fruits. Dried	Reid, Murdoch & Fischer	13,114	Mar. 16	34	1162
Furnaces, cooking-stoves, and ranges. Heating	Highland Foundry Company	13,768	Nov. 2	37	458
Furniture-nails	A. Gallais & Co	12,969	Jan. 26	34	344
Furs for garments and garments made wholly or in part of furs.	R. A. Servant	13,187	Apr. 13	35	140
Fuse for exploding gunpowder, &c. Safety	Climax Fuse Company	12,987	Feb. 2	34	440
Game. Certain named	H. W. Edwards and W. P. Bonbright	13,175	Apr. 13	35	140
Garters and garment-supporters and their parts and attachments.	W. W. Anderson	13,812	Nov. 23	37	788
Gas-burners	G. K. Cooke	13,921	Dec. 28	37	1360
Gilders' size	J. J. Heins	13,534	Aug. 3	36	460
Glass-cutters	S. G. Monce	13,052	Feb. 23	34	830
Glass table-ware and fancy articles of all kinds	F. S. Shirley	13,523	July 20	36	236
Glassware and fancy glass articles having colors shading into each other.	F. S. Shirley	13,339	May 25	35	878
Gloves	Levering & Co	13,612	Aug. 24	36	824
Gloves and mitts	A. G. Jennings & Sons	13,780	Nov. 2	37	458
Gloves. Kid	Simpson, Crawford & Simpson	13,626	Aug. 31	36	944
Gloves. Kid	Simpson, Crawford & Simpson	13,635	Aug. 31	36	944
Gloves. Kid	Simpson, Crawford & Simpson	13,636	Aug. 31	36	944
Gloves. Kid	M. R. Truefitt	13,727	Oct. 12	37	104
Grease and stains. Preparation for removing	F. C. Lord	13,537	Aug. 3	36	460
Grease. Belt	A. Angell	13,513	July 20	36	236
Grease or solid oil. Machine	C. H. Besly & Co	13,471	July 6	36	2
Guano	C. Spear, Jr	13,126	Mar. 23	34	1280
Gum. Chewing	C. T. Heisel	13,133	Mar. 30	34	1394
Gum. Chewing	C. T. Heisel	13,331	May 25	35	878
Gum. Chewing	H. D. Smith & Co	13,168	Apr. 6	35	2
Gum. Chewing	J. L. Valentino	13,274	May 4	35	504
Gum Chewing	J. L. Valentino	13,678	Sept. 21	36	1250
Gum. Chewing	B. Ward	13,366	June 1	35	1006
Gum. Chewing	W. J. White	12,960	Jan. 19	34	254
Gum. Dental chewing	R. W. Morgan	13,185	Apr. 13	35	140
Gunpowder	King's Great Western Powder Company.	13,293	May 11	35	632
Guns. Shot	H. Boker & Co	13,736	Oct. 19	37	222
Hair-curling preparation	New York Polyform Manufacturing Company.	13,319	May 18	35	754
Hair-invigorators	A. L. Smith	13,778	Nov. 2	37	458
Hair-nets	A. G. Jennings & Sons	13,354	June 1	35	1006
Hair-restorer	A. W. Johnson	13,702	Oct. 5	37	2
Hair-reviver	W. Moro	13,121	Mar. 23	34	1280
Hair-tonic	J. Bodin	13,917	Dec. 28	37	1360
Hair tonic or wash. Certain-named	H. Bailey	12,994	Feb. 2	34	440
Hames and saddlery hardware	P. Hayden Saddlery Hardware Company.	13,167	Apr. 6	35	2
Hams, shoulders, and bacon	J. D. Reed	13,510	July 20	36	236
Harmonicas	Gebrüder Ludwig	13,844	Nov. 30	37	896
Harmonicas	J. Rosenthal & Co	13,362	June 1	35	1006
Harrows, clod-crushers, and levelers. Pulverizing	Nash & Brother	13,508	July 20	36	236
Harrows. Spring-tooth	G. B. Olin & Co	13,908	Dec. 21	37	1252
Hats. Boys	P. R. J. Coughlin	13,047	Feb. 23	34	830
Hats. Felt and silk	G. Heath	12,998	Feb. 2	34	440
Hats for men and boys	Austin, Drew & Co	13,450	June 29	35	1440
Hats for men and boys	Straw & Ellsworth Manufacturing Company.	13,024	Feb. 9	34	564
Hats. Men's, women's, and children's	C. O. Osborne and A. M. Taylor	13,832	Nov. 23	37	788
Hatters' furs	Manufacture de Feutres & Chapeaux	13,520	July 20	36	236
Hay, fodder, and straw cutters	Willson Bros. & Co	13,082	Mar. 2	34	926

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Official Gazette. Pages.
Headache cure, an ointment or lotion, and aromatic cachous	W. R. Warner	13,617	Aug. 24	36	824
Hoes	Iowa Farming Tool Company	13,314	May 18	35	754
Hog products	G. Fowler & Co	13,787	Nov. 9	37	570
Hog products, cheese, butter, and butterine	W. Heapy & Sons	13,531	July 27	36	350
Hog-rings	Heesen Brothers & Co	13,007	Feb. 9	34	564
Horse blankets, covers, and nets, and saddle-housings, lap-robes, and lap-dusters.	W. Ayres & Sons	13,595	Aug. 24	36	824
Horse-rasps	Kearney & Foot Company	13,111	Mar. 16	34	1162
Hose. Rubber	New York Belting and Packing Company.	13,318	May 18	35	754
Hose. Rubber	Revere Rubber Company	13,384	June 8	35	1116
Hosiery	Le Boutillier Brothers	13,157	Apr. 6	35	2
Hosiery	B. F. Larrabee	13,372	June 8	35	1116
Hosiery	W. D. and F. H. Ormsby	13,687	Sept. 28	36	1360
Hosiery	M. Posnansky	13,793	Nov. 9	37	570
Hosiery	H. B. Shaen	13,446	June 22	35	1342
Hosiery other than white	J. McCreery & Co	13,090	Mar. 9	34	1050
Hot-air furnaces	R. and F. E. Wheeler and F. Kernan, Jr.	13,099	Mar. 9	34	1050
Hydrants	J. C. Kupferle	13,902	Dec. 21	37	1252
Indian-corn meal	Heffner & Co	13,783	Nov. 2	37	458
Ink. Printing	Queen City Printing Ink Company	13,804	Nov. 16	37	678
Inks	F. B. Lawton	13,652	Sept. 7	36	1048
Inks. Printing	J. Woodruff's Sons	13,810	Nov. 16	37	678
Interment-sacks. Rubber	Goodyear Rubber Company	13,069	Mar. 2	34	926
Jackets. Cardigan	W. Reichman	13,302	May 11	35	632
Jerseys. Ladies'	G. Schwab & Bros	13,077	Mar. 2	34	926
Jet goods	Veit & Nelson	13,935	Dec. 28	37	1360
Jewelry, comprising chains and chain-trimmings	Hamilton & Hamilton, Jr.	13,232	Apr. 27	35	390
Jewels. Various geometric forms made of copper and lacquered or enameled to simulate	R. H. Bragdon	12,978	Feb. 2	34	440
Kerosene-oil or refined petroleum	Mailler & Quereau	13,294	May 11	35	632
Kiln-dried cornmeal	W. Lea & Sons Company	13,100	Mar. 9	34	1050
Knit shirts, drawers, stockings, and socks	Simpson, Crawford & Simpson	13,627	Aug. 31	36	944
Knitted underwear	R. Berry & Co	13,156	Apr. 6	35	2
Knives, forks, and spoons. Plated	Oneida Community	13,820	Nov. 23	37	788
Laces for boots, shoes, and corsets, and plain and ornamental braids for binding and trimming fabrics.	Fletcher Manufacturing Company	13,412	June 15	35	1232
Laces for corsets and boots and shoes	Fletcher Manufacturing Company	13,351	June 1	35	1006
Lamp-chimneys	Hogan, Evans & Co., (limited)	13,087	Mar. 9	34	1050
Lamps	J. P. Bradley	12,980	Feb. 2	34	440
Lamps, candle-holders, candles, and night-lights	S. Clarke	13,031	Feb. 16	34	704
Lamps, lamp-burners, and lamp-chimneys	C. S. Upton	13,775	Nov. 2	37	458
Lard	G. Cassard & Son	13,375	June 8	35	1116
Lard	W. J. Wilcox & Co	13,728	Oct. 12	37	104
Lard	W. J. Wilcox & Co	13,729	Oct. 12	37	104
Lard	W. J. Wilcox & Co	13,751	Oct. 19	37	222
Lard. Refined	W. Burnet	13,382	June 8	35	1116
Lard. Refined	W. H. Burnet	13,529	July 27	36	350
Lard. Refined	W. T. Wells	13,385	June 8	35	1116
Leather. Kid	G. Levor	13,843	Nov. 30	37	896
Leather. Shoe and glove	Booth & Kent	13,046	Feb. 23	34	830
Ledgers, day-books, and journals. Certain	J. W. Horne	13,415	June 15	35	1232
Licorice. Manufactured	Young & Smylie	13,670	Sept. 14	36	1154
Lime	Kerr, Weitzel & Co	13,416	June 15	35	1232
Linen. Table	Watson, Armstrong & Co	13,618	Aug. 24	36	824
Liniment	D. Arnheim	13,427	June 22	35	1342
Liniment	W. W. Boyce	13,472	July 6	36	2
Liniment	C. E. Clark	13,130	Mar. 30	34	1394
Liniment	H. B. Jones	13,235	Apr. 27	35	390
Liniment	R. M. Kerley and W. C. Fountain	13,417	June 15	35	1232
Liniment	J. M. and M. B. McCaine	13,519	July 20	36	236
Liniment	E. H. Perkins	12,974	Jan. 26	34	344
Liniment	C. T. Peterson	13,489	July 13	36	124
Liniment	J. Riley and J. M. Boyer	12,992	Feb. 2	34	440
Liniment	Shaw & Drummond	13,522	July 20	36	236
Liniment	J. J. Six Dykstra	13,364	June 1	35	1006
Liniment and leg-wash	E. B. Johnson & Co	13,355	June 1	35	1006
Liniment and ointment	J. Seitzinger	13,320	May 18	35	754
Liniment for outward application	Duke & Mills	13,286	May 11	35	632
Linings for ladies' and gentlemen's habits, also for umbrella and parasol cloths.	R. Pullar & Sons	13,601	Aug. 24	36	824
Liquid preparation to be used as an injection	W. J. Shure	13,704	Oct. 5	37	2
Liquid specific for heart disease	G. T. Fry	13,774	Nov. 2	37	458
Liquid veterinary lotion	R. Ord	13,794	Nov. 9	37	570
Liquors. Compound	H. D. Watts	13,423	June 15	35	1232
Liquors. Malt	Machen & Co	13,113	Mar. 16	34	1162
Lithographs	Armor Lithographing Company	12,963	Jan. 26	34	344
Lockets, brooches, badges, and similar articles	E. R. Shipton	13,455	June 29	35	1440
Looking-glass plates	P. Semmer & Co	13,931	Dec. 28	37	1360
Lotion for the face and hands	Stewart Healing Powder Company	13,797	Nov. 9	37	570
Lotion for the skin	H. A. Durrua	13,347	June 1	35	1006
Lotion or liniment	A. S. Cowan	13,639	Sept. 7	36	1048
Lozenges or troches. Digestive	J. M. Newhall	13,039	Feb. 16	34	704
Lozenges, wafers, and tablets	Weeks Bros	13,304	May 11	35	632
Lubricants for vehicles and other like purposes	H. T. Schaefer	13,040	Feb. 16	34	704
Lumber, doors, and sash	E. Steves & Sons	13,059	Feb. 23	34	830
Macaroni, vermicelli, &c	F. Scaramelli Fils & Cie	13,093	Mar. 9	34	1050
Macaroons	S. Schaver	12,993	Feb. 2	34	440
Mackerel	Trask Fish Company	13,116	Mar. 16	34	1162
Malt liquors	Bergner & Engel Brewing Company	13,890	Dec. 21	37	1252
Meats, and lard. Cured and canned	Armour Packing Co	13,853	Dec. 7	37	1006
Medals, seals, stamps, and badges	A. M. Michael	13,163	Apr. 6	35	2
Medical compound	Graves & Reifert	13,896	Dec. 21	37	1252

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Title.	Name	No.	Date.	Official Gazette. Vol.	Official Gazette. Page.
Medical compound for external application for skin diseases	F. E. Hodgson	13,900	Dec. 21	37	1252
Medical drugs	Badische Anilin & Soda Fabrik	13,872	Dec. 14	37	1128
Medical preparation	Keasbey & Mattison	13,865	Dec. 14	37	1127
Medical preparation of coca	Munson & Co	13,907	Dec. 21	37	1252
Medical remedies. Certain named	C. Kuhlmann	13,719	Oct. 12	37	104
Medicated salts for bath and toilet purposes	M. J. Janecek & Co	13,214	Apr. 20	35	260
Medicinal beverage for cure of drunkenness	F. Sieber	13,686	Sept. 21	36	1250
Medicinal invigorating tonic	H. M. Rowell	13,786	Nov. 9	37	570
Medicinal plasters	Grosvenor & Richards	13,897	Dec. 21	37	1252
Medicinal plasters	Grosvenor & Richards	13,898	Dec. 21	37	1252
Medicinal preparation	Kalle & Co	13,803	Nov. 16	37	678
Medicinal preparation for purifying the blood	A. Gross	13,548	Aug. 10	36	574
Medicinal preparation for the cure of indigestion, dyspepsia, and other named ailments.	W. R. Warner	13,742	Oct. 19	37	222
Medicinal preparation for the feet, in powdered or liquid form	C. R. Pa Dro	13,554	Aug. 10	36	574
Medicinal preparation of an alterative or tonic character	H. H. Warner	13,809	Nov. 16	37	678
Medicinal preparations for purifying the blood	V. Polidori	13,359	June 1	35	1006
Medicinal preparations from carica papaia, (melon-tree)	Finkler & Co	13,642	Sept. 7	36	1048
Medicinal remedies prepared from a certain natural deposit of earthy formation.	Acid Iron Earth Company	13,547	Aug. 10	36	574
Medicine. Blood-purifying	H. A. Durrua	13,405	June 15	35	1232
Medicine. Blood-purifying	Soler & Guardias	13,637	Aug. 31	36	944
Medicine-chests	T. J. Hutton	13,717	Oct. 12	37	104
Medicine for dogs	Spratt's Patent	13,688	Sept. 28	36	1360
Medicine for external and internal use	G. C. Schutt	13,448	June 22	35	1342
Medicine for lung and throat troubles, anæmia, scrofula, phthisis, indigestion, nervous and general debility, and rickets.	E. Loeflund	13,536	Aug. 3	36	460
Medicine for pheasants and other game-birds and poultry	Spratt's Patent	13,690	Sept. 28	36	1360
Medicine for pheasants and other game-birds and poultry	Spratt's Patent	13,692	Sept. 28	36	1360
Medicine for purifying the blood	W. F. Gill	13,342	May 18	35	754
Medicine for the cure of blood diseases in domestic animals	F. J. Smith	13,447	June 22	35	1342
Medicine for the cure of catarrh, hay fever, and leucorrhœa	W. T. Jones	13,161	Apr. 6	35	2
Medicine for the cure of chills and fever	A. B. Girardeau and B. W. Johnson	13,997	Feb. 2	34	440
Medicine for the cure of dyspepsia and all diseases incident thereto.	J. True	13,557	Aug. 10	36	574
Medicine for the cure of neuralgia, rheumatism, and malaria	J. A. Myers	13,722	Oct. 12	37	104
Medicine for the cure of rheumatism and other like complaints. Liquid	G. Quarrie	13,139	Mar. 30	34	1394
Medicine for the cure of rheumatism, to be taken internally	W. H. Clewley	13,063	Mar. 2	34	926
Medicine for the treatment of coughs, colds, consumption, and catarrh.	J. B. Cook & Co	13,435	June 22	35	1342
Medicine for the treatment of diseases of the blood, fevers, coughs, colds, and catarrh.	F. Stearns & Company	13,490	July 13	36	124
Medicine for the treatment of diseases of the digestive and respiratory organs.	T. D. Williams	13,306	May 11	35	632
Medicine. Herb	E. and H. Densmore	13,656	Sept. 14	36	1154
Medicine. Hog-cholera	Medinus & Iten	13,553	Aug. 10	36	574
Medicine or condition powders. Horse	J. L. Kreychie	13,070	Mar. 2	34	926
Medicine or cure for corns, bunions, warts, moles, callousness, &c.	G. Mennen	13,666	Sept. 14	36	1154
Medicine. Poultry	E. T. Murchison and W. J. Rogers	13,721	Oct. 12	37	104
Medicines. Astringent	Synvita Company	13,850	Dec. 7	37	1006
Medicines. Certain named proprietary	A. C. Meyer	13,008	Feb. 9	34	564
Medicines. Kidney and liver cure	O. Peck	13,785	Nov. 9	37	570
Medicines named. Certain family	C. A. Diamond	13,754	Oct. 26	37	342
Metal, electroplated, and silver ware of all kinds	Reed & Barton	13,021	Feb. 9	34	564
Metal, electroplated, and silver ware of all kinds	Reed & Barton	13,022	Feb. 9	34	564
Metal for boxes and journal-bearings	R. Taylor	13,026	Feb. 9	34	564
Mica	Arctic Mica Company	13,869	Dec. 14	37	1128
Milk. Condensed	New York Condensed Milk Company.	13,054	Feb. 23	34	830
Mineral fat	W. Ropes & Co	13,422	June 15	35	1232
Mineral-spring water	Case Brothers	13,827	Nov. 23	37	788
Mineral water and mineral salts	P. Scherer Company	13,500	July 13	36	124
Mineral waters	C. Miller	13,383	June 8	35	1116
Mineral waters and effervescing beverages	J. Graf	13,329	May 25	35	878
Mineral waters, effervescent drinks, ginger-ale, ginger-nectar, lemonade, &c.	Arcadian Mineral Spring Company	13,404	June 15	35	1232
Mohair-plush	W. Foerster & Co	13,131	Mar. 30	34	1394
Musical instruments of all kinds	J. H. Foote	13,696	Sept. 28	36	1360
Musical instruments. Wind and string	A. Pollmann	13,390	June 15	35	1231
Mustard prepared for table use	F. Wittich	13,846	Nov. 30	37	896
Nails. Wire	Albert Nail Company	13,060	Mar. 2	34	926
Needles, pins, crochet and knitting needles, and fish-hooks	T. H. Harper	12,989	Feb. 2	34	440
Newspapers, magazines, and advertising-sheets	H. C. Meyer	13,419	June 15	35	1232
Non-alcoholic summer-drink	W. J. Wickham & Co	13,594	Aug. 24	36	824
Nuns veiling	Abegg Daemiker & Co	13,744	Oct. 19	37	222
Oil-cloth for wall-covering	Storey Bros. & Co	13,764	Oct. 26	37	342
Oil. Cylinder	Vacuum Oil Company	13,365	June 1	35	1006
Oil for watches, chronometers, and clocks. Lubricating	R. Brandt and C. Boss	13,173	Apr. 13	35	140
Oil. Illuminating	Lombard, Ayres & Company	13,876	Dec. 14	37	1128
Oil. Lubricating	W. H. Compton	13,746	Oct. 19	37	222
Oil. Lubricating	Fiske Brothers	13,924	Dec. 28	37	1360
Oil. Lubricating	F. H. Reinhard	13,378	June 8	35	1116
Oil. Lubricating	F. H. Reinhard	13,564	Aug. 10	36	574
Oil-meal and flaxseed meal	S. H. Weeks & Co	13,569	Aug. 10	36	574
Oil. Mustard	J. & J. Colman	13,891	Dec. 21	37	1252
Oil. Olive	A. Gounelle	13,798	Nov. 16	37	678
Oil. Olive	A. Gounelle	13,799	Nov. 16	37	678
Oil. Olive	A. Gounelle	13,800	Nov. 16	37	678
Oil. Olive	A. Gounelle	13,801	Nov. 16	37	678
Oil. Olive	A. Gounelle	13,802	Nov. 16	37	678

Alphabetical list of trade-marks—Continued.

Title.	Name	No.	Date.	Official Gazette. Vol.	Page.
Oil. Olive	Société Hygiénique Alimentaire	12,948	Jan. 12	34	134
Oil. Olive	Société Hygiénique Alimentaire	13,189	Apr. 13	35	140
Oil. Petroleum	B. S. Pray	13,138	Mar. 30	34	1394
Oils forming a balsam. Combination of vegetable	B. Collins	13,343	June 1	35	1006
Ointment	C. Bond	13,712	Oct. 12	37	104
Ointments, cerates, and the fat from sheep's wool made ready for medicinal use.	T. Metcalf & Co	13,433	June 22	35	1342
Optical goods of all kinds	F. Benoist & L. Berthiot	13,204	Apr. 20	35	260
Oranges and lemons	A. Minaldi	13,667	Sept. 14	36	1154
Overalls	Carter & Churchill	13,105	Mar. 16	34	1162
Overalls; drawers, pants, jumpers, blouses, shirts, coats, and other similar garments.	Wise Brothers	13,449	June 22	35	1342
Overcoats, undercoats, pants, and vests	T. R. Boone	13,571	Aug. 17	36	696
Oysters, raw, cove, and pickled, put up in plain tin-plate cans.	Platt & Co	13,646	Sept. 7	36	1048
Packing. Engine and pump	R. B. H. Gould	13,426	June 15	35	1232
Packing the joints of steam-engines and for other purposes. Compound for	Revere Rubber Company	13,539	Aug. 2	36	460
Paint	New York Fire Proof Paint Company	13,166	Apr. 6	35	2
Paint. Liquid fire-proof	M. E. A. de Bernales	13,892	Dec. 21	37	1252
Paints and varnishes. Drier for	Lefranc & Co	12,971	Jan. 26	34	344
Paints. Oil	J. L. Rice	13,361	June 1	35	1006
Paper and paper for photographic processes. Drawing	Keuffel & Esser	12,956	Jan. 19	34	254
Paper. Building or roofing	C. S. Garrett & Son	13,895	Dec. 21	37	1252
Paper. Fine writing	S. Worthington	12,977	Jan. 26	34	344
Paper. Fine writing	S. Worthington	13,101	Mar. 9	34	1050
Paper. Fine writing	S. Worthington	13,367	June 1	35	1006
Paper. Fine writing	S. Worthington	13,396	June 15	35	1232
Paper. Fine writing	S. Worthington	13,424	June 15	35	1232
Paper for water-closets. Medicated Manila	B. T. Hoogland	12,970	Jan. 26	34	344
Paper-hangings and wall-coverings	F. Aumonier	13,228	Apr. 27	35	390
Paper. Toilet	C. G. Mortimer	13,546	Aug. 3	36	460
Paper. Writing	Massasoit Paper Manufacturing Company.	13,563	Aug. 10	36	574
Paper. Writing	Wilkinson Bros. & Co	13,577	Aug. 17	36	696
Papers. Printing, writing, and book	Winona Paper Company	13,463	June 29	35	1440
Pattern for garments for women and children	E. C. Mevey	13,236	Apr. 27	35	390
Pencils and pen-holders. Lead	Eagle Pencil Company	13,657	Sept. 14	36	1154
Pencils. Medicinal	J. Wyeth & Bro	13,278	May 4	35	504
Peppermint-oil and products containing the same. Crystals of	A. M. Todd	13,191	Apr. 13	35	140
Perfumery	Barney Myrolens Company	13,629	Aug. 31	36	944
Perfumery	E. W. Hoyt & Co	13,160	Apr. 6	35	2
Perfumery	L. Marchandise	13,737	Oct. 19	37	222
Perfumery	Mülhens & Kropff	12,942	Jan. 12	34	134
Perfumery	Mülhens & Kropff	12,944	Jan. 12	34	134
Perfumery	Mülhens & Kropff	12,945	Jan. 12	34	134
Perfumery and cosmetics	H. Whiting	13,937	Dec. 28	37	1360
Perfumery and powders	McKesson & Robbins	13,933	Dec. 28	37	1360
Perfumery and soap	Colgate & Co	13,342	June 1	35	1006
Perfumery, cosmetics, sachet-powders, dentifrices, and hair-dressings.	B. D. Baldwin & Co	13,745	Oct. 19	37	222
Perfumery, cosmetics, sachet-powders, dentifrices, and hair-dressings.	B. D. Baldwin & Co	13,776	Nov. 2	37	458
Perfumery, extracts, soaps, toilet-waters, sachets, tooth powders and washes, and toilet-powders.	F. R. Arnold & Co	13,505	July 20	36	236
Perfumery for the handkerchief and toilet	Lorenz Bros	12,940	Jan. 12	34	134
Perfumes, colognes, extracts, and kindred goods	W. C. Garwood	13,439	June 22	35	1342
Periodical publications	H. C. Meyer	13,904	Dec. 21	37	1252
Petroleum	J. Schwartz	13,710	Oct. 5	37	2
Petroleum for illuminating purposes. Refined	Chester Oil Company	13,815	Nov. 23	37	788
Petroleum for illuminating purposes. Refined	Ocean Oil Company	13,723	Oct. 12	37	104
Petroleum. Refined	W. R. Grace & Co	13,132	Mar. 30	34	1394
Petroleum. Refined	Lombard, Ayres & Company	13,875	Dec. 14	37	1128
Petroleum. Refined	H. W. Peabody & Co	13,668	Sept. 14	36	1154
Photographic materials	H. Van Monckhoven	13,766	Oct. 26	37	342
Piano-fortes	G. M. Guild	13,370	June 8	35	1116
Pianos	Boardman & Gray	13,387	June 15	35	1231
Pianos. Grand, square, and upright	J. & C Fischer	13,584	Aug. 17	36	696
Pianos. Square and upright	J. Church Company	13,718	Oct. 12	37	104
Pickles	Crosse & Blackwell	13,580	Aug. 17	36	696
Pickles	Crosse & Blackwell	13,649	Sept. 7	36	1048
Pickles and mustard	H. Wickert	13,171	Apr. 6	35	2
Pickles. Highly-spiced	Skilton, Foote & Co	13,115	Mar. 16	34	1162
Pillows	S. Ainsworth	13,868	Dec. 14	37	1127
Pills	J. H. Reeves	13,243	Apr. 27	35	390
Pills	Weedon & Dent	13,558	Aug. 10	36	574
Pills for purifying the blood	S. B. McMurray	12,922	Jan. 5	34	2
Pills for purifying the blood	S. B. McMurray	12,923	Jan. 5	34	2
Pills for the cure of rheumatism and gout	C. V. Coelln	13,428	June 22	35	1342
Pills. Pennyroyal	Chichester Chemical Company	13,589	Aug. 24	36	824
Pipes, pipe-stems, and cigar-holders	W. Demuth & Co	13,033	Feb. 16	34	704
Plasters and medicines for use in the treatment of corns	P. White Proprietary Company	13,499	July 13	36	124
Plasters. Medicated	P. White Proprietary Company	13,509	July 20	36	236
Plasters. Medicinal	P. White Proprietary Company	13,297	May 11	35	632
Plows	Brown Manly Plow Company	13,781	Nov. 2	37	458
Plush	Jaeger & Timme	13,234	Apr. 27	35	390
Pocket-knives, shears, scissors, and razors	Flagg Cutlery Company	13,050	Feb. 23	34	830
Polish. Metal	G. A. Haws	13,701	Oct. 5	37	2
Polishing powder for metal, glass, &c	Fischler & Co	12,996	Feb. 2	34	440
Pork	Kingan & Company	13,454	June 29	35	1440
Powder. Face	E. C. Andrew	13,193	Apr. 20	35	260
Preparation. Digestive	Fairchild Brothers & Foster	13,159	Apr. 6	35	2
Preparation for beautifying the skin	J. J. Mack & Co	13,720	Oct. 12	37	104
Preparation for relieving whooping-cough	Porter Specific Company	12,947	Jan. 12	34	134

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Title.	Name.	No.	Date.	Official Gazette. Vol.	Official Gazette. Page.
Preparation for the skin	Prentice & Evenson	13,845	Nov. 30	37	896
Preparation for treatment of the circulation and organs connected therewith	J. J. Mack & Co	13,120	Mar. 23	34	1280
Preparation of wheat for cooking purposes	Colby & Buskirk	13,284	May 11	35	632
Preparations in the form of fluid extracts especially for use in cathartics.	F. Stearns & Company	13,392	June 15	35	1232
Preparations in the form of small pills especially for the treatment of dysentery.	F. Stearns & Company	13,393	June 15	35	1232
Preparations in the form of pellets especially for use as anodynes.	F. Stearns & Company	13,394	June 15	35	1232
Preparations in the form of powders especially for the treatment of fevers.	F. Stearns & Company	13,395	June 15	35	1232
Preserved fruits	W. T. Coleman & Co	13,863	Dec. 14	37	1127
Preserving and rendering water-proof brick, stone, wood, paper, cloth, and other fabrics. Compound for	R. E. Nichols	13,091	Mar. 9	34	1050
Printers' rollers. Composition for covering	Durable Printers' Roller Company, (limited.)	13,466	July 6	36	2
Printers' rollers. Composition for covering	Durable Printers' Roller Company, (limited.)	13,481	July 6	36	2
Printing and embossing presses	M. Gally	13,179	Apr. 13	35	140
Printing and finishing textile fabrics. Machines used in the various processes of	W. Birch	13,386	June 15	35	1231
Printing-presses	Babcock Printing Press Manufacturing Company.	13,201	Apr. 20	35	260
Publications relating to cutting garments for men, women, and children.	Rood Magic Scale Company	13,244	Apr. 27	35	390
Pulleys. Belt	Dodge Manufacturing Company	13,779	Nov. 2	37	458
Pumps and injecting and ejecting pumps. Steam siphon	Blakeslee Manufacturing Company	13,752	Oct. 26	37	342
Punch	W. Fowler	12,918	Jan. 5	34	2
Punch. Mixture of ingredients to be commingled with milk to compose a	Freiberg Bros	13,610	Aug. 24	36	824
Ranges. Cooking	Janes & Kirtland	13,927	Dec. 28	37	1360
Razor	Flagg Cutlery Company, (limited)	13,583	Aug. 17	36	696
Razors and razor-strops	Flagg Cutlery Company	13,410	June 15	35	1232
Razors and razor-strops	Flagg Cutlery Company	13,411	June 15	35	1232
Razors, scissors, and pocket-knives	McCoy & Sanders	13,789	Nov. 9	37	570
Refrigerators	Blodgett & Osgood	13,104	Mar. 16	34	1162
Refrigerators	G. R. Wight	12,929	Jan. 5	34	2
Remedies for diseases of the blood and skin. Specific	G. J. Meyer	13,684	Sept. 21	36	1250
Remedies for stomach, liver, and kidney affections	Z. W. Patrick	13,521	July 20	36	236
Remedies in solid form for bronchial and other diseases	Synvita Company	13,851	Dec. 7	37	1006
Remedy. Catarrh	C. R. Eggeman	13,598	Aug. 24	36	824
Remedy. Catarrh	P. R. Eggemann, A. R. Jacobi, A. R. Erichsen and A. Schremser.	13,630	Aug. 31	36	944
Remedy. Catarrh	J. T. and A. C. Halland J. M. Hedges	13,550	Aug. 10	36	574
Remedy. Catarrh	W. M. Quirk	13,740	Oct. 19	37	222
Remedy for apoplexy and other kindred diseases	F. S. Hutchinson & Co	13,857	Dec. 7	37	1006
Remedy for blood, stomach, and liver diseases	Oregon Indian Medicine Company	13,909	Dec. 21	37	1252
Remedy for constipation	A. M. Walrath	13,852	Dec. 7	37	1006
Remedy for cutaneous diseases	D. Palmer	13,019	Feb. 9	34	564
Remedy for diarrhea, dysentery, gravel, diseases of the kidneys, &c.	W. H. Preble	13,220	Apr. 20	35	260
Remedy for dyspepsia and water-brash	H. J. Muschert	13,866	Dec. 14	37	1127
Remedy for indigestion	C. H. Graves & Sons	13,715	Oct. 12	37	104
Remedy for kidney and liver complaints	W. J. Austen & Co	13,227	Apr. 27	35	390
Remedy for malaria and fever and ague	J. H. Winkelmann	13,543	Aug. 3	36	460
Remedy for neuralgia, rheumatism, &c., for external use	W. J. Austen & Co	13,279	May 11	35	631
Remedy for rheumatism and other similar diseases	Pfaelzer Brothers & Co	13,981	June 8	35	1116
Remedy for the cure of corns	Hiscox & Co	13,134	Mar. 30	34	1394
Rheumatism and diphtheria cure	M. L. Armstrong	13,153	Apr. 6	35	2
Ribbons. Velvet	Giron Frères	13,756	Oct. 26	37	342
Ribbons. Velvet	Giron Frères	13,757	Oct. 26	37	342
Rings. Finger	Wheeler, Parsons & Hayes	13,679	Sept. 21	36	1250
Roofing materials. Certain	J. W. Stelwagon	13,095	Mar. 9	34	1050
Rubber articles for mechanical purposes	Revere Rubber Company	13,299	May 11	35	632
Rubber articles for mechanical purposes	Revere Rubber Company	13,300	May 11	35	632
Rubber articles for mechanical purposes	Revere Rubber Company	13,301	May 11	35	632
Rubber boots and shoes and other articles of clothing	Goodyear Rubber Company	12,988	Feb. 2	34	440
Rubber goods	Boston Rubber Company	13,918	Dec. 28	37	1360
Rubber goods	Boston Rubber Company	13,919	Dec. 28	37	1360
Rubber goods. Mechanical	Boston Rubber Company	13,281	May 11	35	631
Salve	G. H. Elstroth	13,590	Aug. 24	36	824
Salve	W. L. Fish	13,574	Aug. 17	36	696
Salve	West India Manufacturing Company	13,041	Feb. 16	34	704
Salve or ointment for the cure of catarrh and kindred ailments	E. A. Talbot	13,886	Dec. 14	37	1128
Salve. Sticking	Howard Bros	13,901	Dec. 21	37	1252
Salves and plasters	B. Jaffé & Darmstaedter	13,528	July 27	36	350
Saponaceous cleansing compound	Ford Acme Renovator Company	13,142	Mar. 30	34	1394
Sardines, dried prunes, and preserved peas	E. M. Dadelszen	13,452	June 29	35	1440
Sash-balances	W. F. Lennon	13,497	July 13	36	124
Satinets or woolens. Printed	J. M. Locke & Co	13,698	Sept. 28	36	1360
Satins	Meckel & Co	13,819	Nov. 23	37	788
Sauce	Crosse & Blackwell	13,922	Dec. 28	37	1360
Saws	E. C. Atkins & Company	13,309	May 18	35	754
Saws	J. J. Parker	13,607	Aug. 24	36	824
Scales. Coin	W. H. Harrison	13,449	June 22	35	1342
Scales having torsion-pivots. Weighing	United States Torsion Balance and Scale Company.	13,380	June 8	35	1116
Scissors, shears, razors, and pocket and table cutlery	C. B. Barker & Company (limited)	13,506	July 20	36	236
Seeds. Garden and other	P. Henderson & Co	13,038	Feb. 16	34	704
Sewing-machines. Button-hole attachments for	Smith & Egge Manufacturing Company.	13,932	Dec. 28	37	1360
Shears and scissors	Henry Seymour Cutlery Company	13,088	Mar. 9	34	1050
Sheetings, drills, jeans, and other cotton cloths	Russell & Co	13,634	Aug. 31	36	944

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Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Shellac	F. W. Heilgers & Co	13,840	Nov. 30	37	896
Shirt-waists, men's flannel shirts, and ladies' wrappers. Boys'.	H. L. Levy & Bro	13,599	Aug. 24	36	824
Shirts and shirt-waists	W. B. Brokaw	12,952	Jan. 19	34	254
Shirts. Gentlemen's white and figured	Glass, Hoafmyre & Co	13,661	Sept. 14	36	1154
Shoes	J. F. Dane, Grinnell & Co	13,829	Nov. 23	37	788
Shoes	Hayes, Murray & Co	13,530	July 27	36	350
Shoes for ladies, children, misses, and men	Laird, Schober & Mitchell	13,315	May 18	35	754
Shoes for ladies, children, misses, and men	Laird, Schober & Mitchell	13,316	May 18	35	754
Shoes for ladies, children, misses, and men	Laird, Schober & Mitchell	13,317	May 18	35	754
Shoes for men, women, misses, and children	Laird, Schober & Mitchell	13,270	May 4	35	504
Shovels and spades	J. Dunn	13,259	May 4	35	504
Shovels and spades	J. Dunn	13,260	May 4	35	504
Silica cleaning and polishing preparations	Plymouth Silica Company	13,020	Feb. 9	34	564
Silk goods, silk threads, twists, and yarns of all kinds	Unicorn Silk Manufacturing Company.	13,340	May 25	35	878
Silk, velvet, and silk plushes	W. Openhym & Sons	13,017	Feb. 9	34	564
Silks, armures, satin-faced goods, serges, or other silken fabrics. Fancy-colored	Poidebard Silk Manufacturing Company.	13,137	Mar. 30	34	1394
Silks. Black and other dress	Darlington, Runk & Co	13,753	Oct. 26	37	342
Silver-ware or imitation silver-ware	Holmes & Edwards Silver Company	13,334	May 25	35	878
Skates. Roller and ice	E. H. Barney	13,596	Aug. 24	36	824
Skates. Roller and ice	E. H. Barney	13,597	Aug. 24	36	824
Skins. Kid and goat	Mulford, Cary & Conklin	12,926	Jan. 5	34	2
Snuff. Catarrh	D. G. Alling and J. B. Abrams	13,833	Nov. 30	37	896
Soap	S. C. Adler	13,695	Sept. 28	36	1360
Soap	Adler Bros. & Co	13,463	June 15	35	1232
Soap	Adrot, Christello & Co	12,931	Jan. 12	34	134
Soap	A. Angell	13,544	Aug. 3	36	460
Soap	N. K. Fairbank & Company	13,545	Aug. 3	36	460
Soap	A. C. McLean	13,585	Aug. 17	36	696
Soap and perfumed saponaceous preparations, preparations for the teeth and hair, detergents, and antiseptics. Perfumed	J. Ascough	13,482	July 13	36	124
Soap and saponaceous preparations, detergents, starch, and blue.	J. Ascough	13,494	July 13	36	124
Soap and soap-powders. Laundry and toilet	R. W. Bell Manufacturing Company	13,363	June 1	35	1006
Soap and soap-powders. Laundry and toilet	R. W. Bell Manufacturing Company	13,444	June 22	35	1342
Soap and soap-powders. Laundry and toilet	R. W. Bell Manufacturing Company	13,445	June 22	35	1342
Soap, cream, milk, paste, and pomatum. Toilet	B. Jaffé & Darmstaedter	13,527	July 27	36	350
Soap. Family	N. K. Fairbank & Company	13,176	Apr. 13	35	140
Soap. Family	N. K. Fairbank & Company	13,287	May 11	35	632
Soap. Family	N. K. Fairbank & Company	13,495	July 13	36	124
Soap. Family	N. K. Fairbank & Company	13,582	Aug. 17	36	696
Soap for antiseptic and disinfecting purposes	Fels & Co	13,839	Nov. 30	37	896
Soap for household and all other purposes	Lever Bros	13,624	Aug. 31	36	944
Soap for laundry and general purposes	Oberne, Hosick & Co	13,010	Feb. 9	34	564
Soap for the toilet and laundry. Disinfecting	Rutherford & Barnes	13,443	June 22	35	1342
Soap. Fulling and scouring, toilet, and laundry	J. C. Johnson & Co	13,535	Aug. 3	36	460
Soap. Hard	J. Reardon & Sons	13,076	Mar. 2	34	926
Soap in cakes, bars, blocks, or balls	H. & G. A. Roever	13,479	July 6	36	124
Soap in cakes or bars	Dillern & Ackermann	13,065	Mar. 2	34	926
Soap. Laundry	C. Davis & Co	13,817	Nov. 23	37	788
Soap. Laundry	N. K. Fairbank & Company	12,916	Jan. 5	34	2
Soap. Laundry	J. S. Kirk & Co	12,957	Jan. 19	34	254
Soap. Laundry	Pugsley, Dingman & Co	13,123	Mar. 23	34	1280
Soap. Laundry	Samoset Manufacturing Company	13,149	Mar. 30	34	1394
Soap. Laundry and other	Empire Soap Company	13,747	Oct. 19	37	222
Soap. Laundry and toilet	Empire Soap Company	12,995	Feb. 2	34	440
Soap. Laundry and toilet	Lautz Bros. & Co	12,938	Jan. 12	34	134
Soap. Laundry and toilet	Lautz Bros. & Co	12,939	Jan. 12	34	134
Soap. Laundry and toilet	Lautz Bros. & Co	12,950	Jan. 12	34	134
Soap. Laundry and toilet	G. A. Shoudy Soap Company	13,912	Dec. 21	37	1252
Soap. Laundry or family	J. S. Kirk & Co	13,264	May 4	35	504
Soap, perfume, and cologne. Toilet	W. H. Hall	13,413	June 15	35	1232
Soap, perfume, and cologne. Toilet	W. H. Hall	13,414	June 15	35	1232
Soap-powders	F. K. Miller and S. S. Bobst	12,973	Jan. 26	34	344
Soap, preparations for the bath, the teeth, the hair, and the skin. Perfumed	J. Ascough	13,484	July 13	36	2
Soap. Toilet	J. W. Campion & Co	13,713	Oct. 12	37	104
Soap. Toilet	Graham Bros. & Co	13,849	Dec. 7	37	1096
Soap. Toilet	J. S. Kirk & Co	13,623	Aug. 31	36	944
Soap. Toilet	J. S. Kirk & Co	13,664	Sept. 14	36	1154
Soaps. Fine scented and medicinal	Graham Bros. & Co	13,518	July 20	36	236
Soaps. Laundry and other	Empire Soap Company	13,048	Feb. 23	34	830
Soaps. Laundry and other	Empire Soap Company	13,049	Feb. 23	34	830
Soaps, lotions, cosmetics, toilet-powders, bandolines, and toilet-waters.	C. E. Foote and C. C. Jenks	13,178	Apr. 13	35	140
Soda and potash, manganate of soda, chlorate of potash, and bleaching-powder. Caustic	Widnes Alkali Company	13,938	Dec. 28	37	1360
Specific for all affections of the bowels	D. C. Tibaldi	13,223	Apr. 20	35	260
Specific for rheumatism	N. H. Pike and C. S. Elder	13,241	Apr. 27	35	390
Specific for the cure of diseases of the bladder and kidneys	W. S. Shanahan and J. Fidler	13,346	Apr. 27	35	390
Specific for the treatment of gonorrhea and gleet	J. J. Miles	13,217	Apr. 20	35	260
Specific for uterine diseases	E. A. Nobles	13,806	Nov. 16	37	678
Spectacles, eyeglasses, opera, field, and marine glasses, telescopes, microscopes, and lenses.	T. B. Hagstoz & Co	12,999	Feb. 2	34	440
Spectacles, eyeglasses, opera, field, and marine glasses, telescopes, microscopes, and lenses.	T. B. Hagstoz & Co	13,000	Feb. 2	34	440
Spoons, knives, forks, ladles, cheese-scoops, tea-sets, casters, pitchers, waiters, and napkin-rings.	C. A. Hamilton	13,289	May 11	35	632
Sporting goods. Certain	A. J. Reach & Co	13,421	June 15	35	1232
Springs, spring-balances, and spring-actuated machines not horological.	G. Salter & Co	13,823	Nov. 23	37	788
Stains. Wood and shingle	S. Cabot	13,002	Feb. 9	34	564

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Official Gazette. Page.
Starch and starch-glaze	J. Ascough	13,603	Aug. 24	36	824
Starch for laundry purposes	Beatty Starch Company	13,083	Mar. 9	34	1050
Starch for laundry purposes	G. Fox Starch Company	13,453	June 29	35	1440
Starch. Laundry	T. Kingsford	13,356	June 1	35	1006
Stationery. Certain named articles of	Ivison, Blakeman, Taylor & Co	13,181	Apr. 13	35	140
Stays and corsets	E. Izod & Son	13,777	Nov. 2	37	458
Steam-boilers	Buerkel & Co	13,619	Aug. 31	36	944
Steam-boilers. Compound for preventing and removing lime and other deposits in	Litofuge Manufacturing Company	13,458	July 13	36	124
Steel	S. Osborn & Co	13,469	July 6	36	2
Steel	S. Osborn & Co	13,470	July 6	36	2
Steel and iron tubes	Weldless Steel Tube Co	13,767	Oct. 26	37	342
Stirrups and bridle-bits	V. Brodhurst	13,920	Dec. 28	37	1360
Stove-polish	Phœnix Plumbago Mining Company	13,075	Mar. 2	34	926
Stove-polish	J. P. Wallgren	13,252	Apr. 27	35	390
Stoves and ranges	Union Stove and Machine Works	13,096	Mar. 9	34	1050
Stoves and ranges and gasoline and oil stoves. Heating and cooking	Western Stove Manufacturing Company	13,003	Feb. 9	34	564
Stoves and ranges. Cooking and heating	H. D. Silsby	13,615	Aug. 24	36	824
Stoves. Cooking and heating	Fones Brothers	13,377	June 8	35	1116
Stoves, furnaces, and ranges	Fuller & Warren Company	13,425	June 15	35	1232
Stoves. Heating and cooking stoves, including gasoline and oil	Western Stove Manufacturing Company	12,976	Jan. 26	34	344
Stoves, ranges, and furnaces. Cooking	Co-Operative Foundry Company	13,792	Nov. 9	37	570
Stoves, ranges, heaters, and furnaces	Ely & Ramsay	13,755	Oct. 26	37	342
Stoves, ranges, heaters, and furnaces, and the parts thereof	Richardson & Boynton Company	13,124	Mar. 23	34	1280
Suits and overcoats. Gents' and children's	Einstein & Co	13,107	Mar. 16	34	1162
Sugar. Granulated	Wehncke & Co	13,255	Apr. 27	35	390
Surfacers, japans, stains, paints, and varnishes	Chicago Varnish Company	12,968	Jan. 26	34	344
Table-ware. White-metal	Potosi Silver Company	13,738	Oct. 19	37	222
Table-ware. White-metal	Potosi Silver Company	13,739	Oct. 19	37	222
Table-wares of silver, German silver, and plated or imitation silver. Flat and hollow	Holmes & Edwards Silver Company	13,333	May 25	35	878
Tablets. Dyspepsia	Z. T. Trout	13,788	Nov. 9	37	570
Tacks. Carpet	S. H. Benedict & Co	13,280	May 11	35	631
Targets. Flying or so-called bird	Cleveland Target Company	13,709	Oct. 5	37	2
Tea	J. W. Doane & Co	13,830	Nov. 23	37	788
Tea	E. B. Millar & Company	13,431	June 22	35	1342
Tea and burnt or ground coffee	B. J. Smith	13,491	July 13	36	124
Tea from China	J. H. Labaree & Co	13,842	Nov. 30	37	896
Tea. Gunpowder, imperial, young hyson, Japan, Oolong, and English breakfast	Reid, Murdoch & Fischer	13,360	June 1	35	1006
Tea. Japan	Carter, Hawley & Co	12,981	Feb. 2	34	440
Tea. Japan	Carter, Hawley & Co	12,990	Feb. 2	34	440
Tea. Japan	Carter, Hawley & Co	13,084	Mar. 9	34	1050
Tea. Japan	Carter, Hawley & Co	13,085	Mar. 9	34	1050
Tea. Oolong	H. W. Banks & Co	13,326	May 25	35	878
Teas	H. W. Banks & Co	13,172	Apr. 13	35	149
Teas	W. H. Milnor & Co	12,925	Jan. 5	34	2
Teas. Green and black	P. J. Towle & Co	13,273	May 4	35	504
Teas. Oolong	H. W. Banks & Co	13,202	Apr. 20	35	260
Telescopes, spy-glasses and magnifying-glasses	A. Levy	13,605	Aug. 24	36	824
Thermometers and barometers	Taylor Bros	13,489	July 6	36	2
Thread composed in part of metallic wire. Cordwainer's	W. B. Arnold	13,784	Nov. 2	37	458
Thread. Cotton	Les Fils de Cartier-Bresson	13,357	June 1	35	1006
Thread. Gilling	J. Summerill & Bro	13,098	Mar. 9	34	1050
Thread on spools	J. Chadwick & Brother	12,964	Jan. 26	34	344
Thread on spools. White and colored	J. Chadwick & Brother	12,965	Jan. 26	34	344
Thread on spools. White and colored cotton	J. Chadwick & Brother	12,966	Jan. 26	34	344
Thread on spools. White and colored cotton	J. Chadwick & Brother	12,967	Jan. 26	34	344
Three-leaf twilled silesias and other cotton linings	Hyde & Burton	13,143	Mar. 30	34	1394
Three-leaf twilled silesias and other cotton linings	Hyde & Burton	13,144	Mar. 30	34	1394
Throat and lung diseases. Cure for	L. B. Jones	13,864	Dec. 14	37	1127
Tin plates, terne plates, and black plates	W. Gilbertson & Company	13,631	Aug. 31	36	944
Tin plates, terne plates, and black plates	W. Gilbertson & Co	13,874	Dec. 14	37	1128
Tobacco. All kinds of manufactured	Pemberton & Hill Tobacco Manufacturing Company	13,240	Apr. 27	35	390
Tobacco and cigars. Smoking and chewing	C. W. Allen Company	13,207	Apr. 20	35	260
Tobacco and snuff. Plug and fine-cut chewing and smoking	Eight Hour Tobacco Company	13,349	June 1	35	1006
Tobacco and snuff. Plug, fine-cut, and smoking	Eight Hour Tobacco Company	13,348	June 1	35	1006
Tobacco. Chewing and smoking	American Eagle Tobacco Company	12,910	Jan. 5	34	2
Tobacco. Chewing and smoking	Terry & Shroyer	13,222	Apr. 20	35	260
Tobacco, cigars, and cigarettes. Smoking	X. and H. H. Hanna	12,953	Jan. 19	34	254
Tobacco, cigars, and cigarettes. Smoking and chewing	B. F. Hanes	13,758	Oct. 26	37	342
Tobacco, cigars, and cigarettes. Smoking and chewing	Solidarity Co-operative Cigar Factory	13,741	Oct. 19	37	222
Tobacco, cigars, and cigarettes. Smoking and plug chewing	B. F. Hanes	13,836	Nov. 30	37	896
Tobacco. Combined smoking and chewing	A. Beck & Co	13,578	Aug. 17	36	696
Tobacco. Cut plug smoking	J. W. Benedict	13,609	Aug. 24	36	824
Tobacco. Extract of	T. Drysdale & Co	13,473	July 6	36	2
Tobacco. Extract of	J. Dunn	13,461	June 29	35	1440
Tobacco for chewing or smoking. Plug	J. A. Drinkhouse	13,211	Apr. 20	35	260
Tobacco for sheep-dip. Extract of	Louisville Spirit Cured Tobacco Company	13,475	July 6	36	2
Tobacco in its raw state	Havana Tobacco Company	12,936	Jan. 12	34	134
Tobacco in plug or other form, smoking-tobacco, cigars, and cigarettes. Chewing	J. G. Dill	13,004	Feb. 9	34	564
Tobacco. Plug	Adler, Goldman & Co	13,152	Apr. 6	35	2
Tobacco. Plug	P. Lorillard & Co	13,770	Nov. 2	37	458
Tobacco. Plug	R. A. Patterson & Co	13,882	Dec. 14	37	1128
Tobacco. Plug	Pemberton & Hill Tobacco Manufacturing Company	13,379	June 8	35	1116
Tobacco. Plug	Perkins & Ernst	13,600	Aug. 24	36	824

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Title.	Name.	No.	Date.	Official Gazette. Vol.	Official Gazette. Page
Tobacco. Plug	Tinsley Tobacco Company	13,887	Dec. 14	37	1128
Tobacco. Plug	Zane Tobacco Company	13,559	Aug. 10	36	574
Tobacco. Plug and twist	R. J. Reynolds	13,556	Aug. 10	36	574
Tobacco. Plug chewing	Lockett, Vaughn & Co	13,837	Nov. 30	37	896
Tobacco. Plug, twist, and smoking	J. B. Face Tobacco Company	12,946	Jan. 12	34	134
Tobacco. Smoking	A. Beck & Company	13,155	Apr. 6	35	2
Tobacco. Smoking	Gradle & Strotz	13,835	Nov. 30	37	896
Tobacco. Smoking	W. T. Gray & Co	13,467	July 6	36	2
Tobacco. Smoking	C. E. Sarrazin	13,883	Dec. 14	37	1128
Tobacco. Smoking	F. Shields	13,247	Apr. 27	35	390
Tobacco. Smoking and chewing	C. W. Allen Company	13,061	Mar. 2	34	926
Tobacco. Smoking and chewing	C. W. Allen Company	13,226	Apr. 27	35	390
Tobacco. Smoking and chewing	G. W. Gail & Ax	13,288	May 11	35	632
Tobacco. Smoking and chewing	G. W. Gail & Ax	13,650	Sept. 7	36	1048
Tobacco. Smoking and chewing	Spaulding & Merrick	13,391	June 15	35	1232
Toboggans	J. R. McLaren, Jr	13,266	May 4	35	504
Toilet-powder	J. Mulchahey	13,358	June 1	35	1006
Toilet-water and hair-tonic	W. G. Varin	13,588	Aug. 17	36	696
Tonic	F. C. Miville	12,941	Jan. 12	34	134
Tonic	O. M. Stiger	13,023	Feb. 9	34	564
Tonic and stimulant	Keasbey & Mattison	13,663	Sept. 14	36	1154
Tonic beverages	J. C. Gilbert	13,328	May 25	35	878
Tonic for the cure of certain diseases	F. H. Hedrich	13,291	May 11	35	632
Tonic. Fruit	E. H. Plummer	13,807	Nov. 16	37	678
Tonic. Iron	W. H. & R. L. Riley	13,911	Dec. 21	37	1252
Tonic. Liquid nerve	H. Imhof	13,621	Aug. 31	36	944
Tonic. Medicinal	A. F. Acker	13,504	July 20	36	236
Tonic or bitters	R. C. Hanby	13,671	Sept. 21	36	1250
Tonic or bitters	J. D. Eastman	13,641	Sept. 7	36	1048
Tonics. Liquid	Strickland & Co	13,025	Feb. 9	34	564
Tooth-paste and tooth-wash	Curran & Goler	13,854	Dec. 7	37	1006
Towels and tidies	S. Wood & Ward	13,700	Sept. 28	36	1360
Towels. Turkish	E. A. & C. A. Corr	13,376	June 8	35	1116
Transom-lifters	J. F. Wollensak	13,502	July 13	36	124
Transom-lifters	J. F. Wollensak	13,503	July 13	36	124
Turpentine	W. B. Moore	13,184	Apr. 13	35	140
Twine and rope. Binder's	Standard Cordage Company	12,928	Jan. 5	34	2
Type. Fonts of	Hamilton & Baker	13,290	May 11	35	632
Type. Printing	MacKellar, Smiths & Jordan Company.	13,072	Mar. 2	34	926
Type-writers	C. Spiro	13,057	Feb. 23	34	830
Type-writers	C. Spiro	13,058	Feb. 23	34	830
Under-garments for men, women, and children	W. Benger Soehne	13,464	June 29	35	1440
Underwear and boys' shirts and waists. Ladies' and children's	A. L. Singer	13,934	Dec. 28	37	1360
Underwear for adults and children of both sexes	Ferris Bros	13,573	Aug. 17	36	696
Unguent or salve	B. Jaffé & Darmstaedter	13,622	Aug. 31	36	944
Varnish	Embossing Oil Company	13,893	Dec. 21	37	1252
Varnish. Japan	M. Bigelow & Co	13,515	July 20	36	236
Varnishes, stains, japans, surfacers, and kindred goods	Chicago Varnish Company	12,982	Feb. 2	34	440
Varnishes, stains, japans, surfacers, and kindred goods	Chicago Varnish Company	12,983	Feb. 2	34	440
Varnishes, stains, japans, surfacers, and kindred goods	Chicago Varnish Company	12,984	Feb. 2	34	440
Varnishes, stains, japans, surfacers, and kindred goods	Chicago Varnish Company	12,985	Feb. 2	34	440
Varnishes, stains, japans, surfacers, and kindred goods	Chicago Varnish Company	13,158	Apr. 6	35	2
Vegetable extracts for flavoring soups	Normal Company	13,699	Sept. 28	36	1360
Vegetable fiber and cloth manufactured therefrom	A. E. Newman	12,927	Jan. 5	34	2
Vehicle-springs	H. W. Moore and M. W. Barse	13,318	Apr. 20	35	260
Veiling. Grenadine	W. Openhym & Sons	13,015	Feb. 9	34	564
Veiling. Sewing-silk	W. Openhym & Sons	13,014	Feb. 9	34	564
Veilings and tulle. All kinds of	W. Openhym & Sons	13,012	Feb. 9	34	564
Velveteens, corduroys, and cotton-velvet fabrics	W. Openhym & Sons	13,011	Feb. 9	34	564
Ventilators for buildings, chimneys, &c	W. Webster	13,501	July 13	36	124
Vermifuge	G. F. Payne	13,136	Mar. 30	34	1394
Vermouth	A. Martini and L. Rossi	13,295	May 11	35	632
Violin, banjo, and guitar strings	H. C. Barnes	13,795	Nov. 9	37	570
Wall-paper. Embossed or relief	Manhattan Wall Paper Company	12,972	Jan. 26	34	344
Washing compounds and soaps	J. Ascough	13,483	July 13	36	124
Washing compounds in the form of powder	D. Focht & Co	13,487	July 13	36	124
Washing or soap powders	J. C. Kellogg	13,929	Dec. 28	37	1360
Watch-cases	Brooklyn Watch Case Company	13,282	May 11	35	632
Watch-cases	Brooklyn Watch Case Company	13,283	May 11	35	632
Watch-cases. Filled	H. Muhr's Sons	12,958	Jan. 19	34	254
Watches and watch-cases	Crescent Watch Case Company	13,816	Nov. 23	37	788
Watches, watch-cases, and all the parts of watches and watch-movements.	American Waltham Watch Company.	13,730	Oct. 12	37	104
Water-closets. Porcelain square-top	R. H. Watson	13,254	Apr. 27	35	390
Wearing-apparel. Certain articles of	Jaeger's Sanitary Woolen System Co.	13,632	Aug. 31	36	944
Wheat-flour, cornmeal, pearl meal, and pearl grits	Engelke & Feiner	13,517	July 20	36	236
Whips and whip-lashes	E. K. Warren	13,150	Mar. 30	34	1394
Whiskies and wines	Sattler & Co	13,763	Oct. 26	37	342
Whisky	B. W. Allen & Co	13,256	May 4	35	504
Whisky	G. Amsinck & Co	13,103	Mar. 16	34	1162
Whisky	Cahn, Belt & Co	13,813	Nov. 23	37	788
Whisky	Cahn, Belt & Co	13,814	Nov. 23	37	788
Whisky	J. Clark	13,460	June 29	35	1440
Whisky	A. Coldewey	13,030	Feb. 16	34	704
Whisky	F. W. Hunt & Co	13,575	Aug. 17	36	696
Whisky	Ireland & Vannatta	13,001	Feb. 2	34	440
Whisky	J. Jameson & Son	13,576	Aug. 17	36	696
Whisky	M. Lowenbach	12,921	Jan. 5	34	2
Whisky	R. G. McCorkle & Co	13,146	Mar. 30	34	1394
Whisky	Paxton Bros. & Co	13,614	Aug. 24	36	824
Whisky	Stein Bros. & Baumgartl	13,861	Dec. 7	37	1006

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette.	
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Whisky	J. J. Weideman, J. H. Holmes, and V. Fries.	13,669	Sept. 14	36	1154
Whisky	S. A. Wertz & Co	13,305	May 11	35	632
Whisky	S. B. Wortmann & Co	13,225	Apr. 20	35	260
Whisky	S. B Wortmann & Co	13,277	May 4	35	504
Whisky. Barley-malt	M. & J. S. Perrine	13,761	Oct. 26	37	342
Whisky known as Kentucky sour mash	E. Eppstein & Co	13,462	June 29	35	1440
Whisky. Rye and other	Sour Mash Distilling Company	13,859	Dec. 7	37	1006
Whisky. Rye and other	Sour Mash Distilling Company	13,860	Dec. 7	37	1006
Windmills and tanks	O. G. Stowell	13,097	Mar. 9	34	1050
Wine	J. Foley and J. R. Poor	13,108	Mar. 16	34	1162
Wine. Champagne	L. H. L. R. Olry	13,073	Mar. 2	34	926
Wine. Champagne	J. Somborn	13,808	Nov. 16	37	678
Wine. Champagne	S. B. Wortmann & Co	13,276	May 4	35	504
Wine. Rhine	F. Handrich	13,925	Dec. 28	37	1360
Wines	Compañia Vinicola del Norte de España.	13,570	Aug. 10	36	574
Wines and brandies	Heathcote, Dexter & Co	13,681	Sept. 21	36	1250
Wines and champagnes. Imported French	J. B. Fontanel	12,917	Jan. 5	34	2
Wines and cognac brandies. Bordeaux red (claret) or white	Dubos Frères	13,714	Oct. 12	37	104
Wire. Barbed	California Wire Works	13,847	Dec. 7	37	1006
Wire nails	Hartman Steel Company, (limited)	13,180	Apr. 13	35	140
Wool and silk and wool black dress goods	R. C. Perkins	13,477	July 6	36	2
Woolen bedding. Certain named	Dr. Jaeger's Sanitary Woolen System Company.	13,561	Aug. 10	36	574
Woolen dress-goods, cloakings, shawls, tweeds, and fancy woolens.	Jordan, Marsh & Co	13,881	Dec. 14	37	1128
Woolen fabrics. Woven	S. B. Peabody	13,074	Mar. 2	34	926
Woolen shawls	C. B. Mitchell	13,905	Dec. 21	37	1252
Woven fabrics	M. I. Cooley	13,285	May 11	35	632
Woven fabrics	R. & H. Simon	13,188	Apr. 13	35	140
Woven silk fabrics	R. & H. Simon	13,271	May 4	35	504
Yarns. Woolen	Kammgarn-Spinnerei	13,928	Dec. 28	37	1360
Yeast-cakes	J. F. Bava and G. O. Adicks	13,914	Dec. 21	37	1252
Yeast-cakes	J. T. and H. Boyle	13,573	Aug. 17	36	596
Yeast. Fluid, wet, and dry	M. Riley	13,473	July 6	36	2
Ypsilanti mineral water and all the various products of the same.	T. C. Owen	13,127	Mar. 23	34	1280

ALPHABETICAL LIST OF LABELS.

Title.	Name.	No.	Date.	Official Gazette. Volume.	Official Gazette. Page.
"Abietene Cough Balsam"	D. F. Fryer	4,745	Mar. 2	34	926
"Albumenoid Food"	E. E. Waters	4,706	Jan. 19	34	254
"All Havana" (for Cigars)	J. A. Runaldue & Son	4,735	Feb. 9	34	564
"American" (for Perfumery Extract)	F. Hoyt & Co	4,880	June 22	35	1342
"American Cannon Cracker." (for Fire Crackers)	C. E. Masten and B. T. Wells	4,942	Aug. 24	36	824
"American Maroon Cracker." (for Fire Crackers)	C. E. Masten and B. T. Wells	4,993	Oct. 12	37	104
"Anti-Apoplectine," (for a Medicine)	F. S. Hutchinson & Co	5,053	Dec. 7	37	1066
"Anti-Kalsomine is all the Name implies"	M. B. Church	4,743	Mar. 2	34	926
"Arnold's Adhesive Plaster"	Peleg White Proprietary Company	4,830	May 11	35	632
"Arnold's Belladonna Plaster"	Peleg White Proprietary Company	4,829	May 11	35	632
"Arnold's Celebrated Chill Pills"	A. G. Evans	5,034	Nov. 23	37	788
"Arnold's Compound Capsicum Plaster"	Peleg White Proprietary Company	4,828	May 11	35	632
"Arnold's Family Blister Plaster"	Peleg White Proprietary Company	4,832	May 11	35	632
"Arnold's Family Mustard Leaves"	Peleg White Proprietary Company	4,831	May 11	35	632
"Bacon's Canadian Emollient"	T. Angelo	4,737	Feb. 9	34	564
"Baldwin Mineral Springs Water"	C. Downer	4,894	July 6	36	2
"Barker's Universal Malaria Cure"	J. H. Barker	4,789	Apr. 20	35	260
"Barrows' Washing Process." (for Soap)	J. Barrows	5,054	Dec. 14	37	1128
"Beavers's Rheumatic Remedy"	C. Beaver	4,806	Apr. 27	35	390
"Beecham's Cough Pills"	T. Beecham	5,004	Oct. 26	37	342
"Beecham's Patent Pills"	T. Beecham	4,957	Sept. 7	36	1048
"Beef with Whiskey." (for a Medical Preparation)	R. A. Hance	4,969	Sept. 21	36	1250
"Belmont Chemical Illuminator" (For Burning Fluid)	L. C. Davis	4,915	July 27	36	350
"Berry's Positive Scale Remover"	L. M. Berry	5,011	Nov. 9	37	570
"Bertram's Scale Killer" (for a Boiler Cleaning Compound)	F. A. Bertram	5,040	Nov. 30	37	896
"Black Pills"	W. H. O'Neal, C. S. and W. M. Duncan.	5,031	Nov. 16	37	678
"Blake's Pattern Belt Stud"	Greene, Tweed & Co	4,967	Sept. 21	36	1250
"Blanchard's Infallible Pectoral Compound"	W. T. Baldus	4,996	Oct. 19	37	222
"Blood Purifier for the Horse"	P. H. Flynn	4,962	Sept. 14	36	1154
"Boil until the Smaller Bone in the Hock End Becomes Loose." (for Hams.)	G. Cassard & Son	5,047	Dec. 7	37	1066
"Bolton's Burn Water and Burn Salve, a Quick Cure for Burns and Inflammatory Sores, on Man and Beast."	V. F. Bolton	4,720	Feb. 9	34	564
"Brackett's Celebrated Cider Bitters"	Brackett Brothers	4,786	Apr. 13	35	140
"Bragdon's Hog Cholera Specific"	J. G. Bragdon	4,978	Oct. 5	37	2
"Bristol Mfg. Co" (for Ingrain Carpets)	Hood, Bonbright & Co	4,738	Feb. 23	34	830
"Bromo Cocaffeine." (for a medicine)	Keasbey & Mattison	4,963	Sept. 14	36	1154
"Bromo Cocaine." (for a medicinal preparation)	Keasbey & Mattison	4,953	Aug. 31	36	944
"Bromo Theine." (for a medicinal preparation)	Keasbey & Mattison	4,952	Aug. 31	36	944
"Bubbin's Great French Oil"	J. B. Bubbins	4,728	Feb. 9	34	564
"Carbonated Sweet Cider"	C. Roth & Co	4,710	Jan. 26	34	344
"Carmon's Veterinary Sweating Ointment"	C. E. Carmon	4,979	Oct. 5	37	2
"Caro Cum Spiritu Frumenti." (for a Medical Preparation of Beef and Whisky.)	R. A. Hance	4,972	Sept. 28	36	1360
"Champagne Pop" (for a Beverage)	Trowbridge & Huxley	4,736	Feb. 16	34	704
"Change 50c." (for Change Envelopes)	Morgan Envelope Company	4,981	Oct. 5	37	2
"Change 1.00" (for Change Envelopes)	Morgan Envelope Company	4,982	Oct. 5	37	2
"Change 25c." (for Change Envelopes)	Morgan Envelope Company	4,983	Oct. 5	37	2
"Chemical and Vegetable Combination" (for a Burning Fluid.)	J. Erb	5,028	Nov. 16	37	678
"Chenille Art Appliqués" (for Chenille Ornaments)	S. Green	5,014	Nov. 9	37	570
"Chesapeake Canvas Belting"	Chesapeake Belting Co	5,051	Dec. 7	37	1066
"Chichesters English." (for Pills)	Chichester Chemical Co	4,939	Aug. 24	36	824
"Chinese Cigarettes"	W. S. Kimball & Co	4,998	Oct. 19	37	222
"Chocolat Porto Cabello"	P. Sutorius	5,036	Nov. 23	37	788
"Cider Preservative"	Inman Brothers	4,997	Oct. 19	37	222
"Cider Syrup"	A. H. Bailey	4,780	Apr. 6	35	2
"Clark's Tooth Ache Cure"	S. P. Clark & Co	5,020	Nov. 16	37	570
"Clothier's Best Linen Thread"	Lesher, Whitman & Co	4,872	June 15	35	1232
"Coca Caffeine" (for a medicinal preparation)	Keasbey & Mattison	4,980	Aug. 31	36	944
"Coca-Phosphates"	W. S. Haswell	4,843	May 18	35	754
"Coca Theine" (for a medicinal preparation)	Keasbey & Mattison	4,951	Aug. 31	36	944
"Coca Wine with Quinine"	Bartleit & Plummer	4,787	Apr. 13	35	140
"Cocaine Plasters"	G. F. Ropes	4,822	May 4	35	504
"Colman's Concentrated Mustard Oil"	J. & J. Colman	5,064	Dec. 21	37	1252
"Compound White Pine Cough Syrup"	H. P. Chace and G. W. Flood	4,791	Apr. 20	35	260
"Condition Powders for Horses, Cattle and Swine"	R. H. Lahy	5,041	Nov. 30	37	896
"Cooper's Improved Developer" (for Photographic Plates and Films.)	Eastman Dry Plate and Film Company.	4,749	Mar. 2	34	926
"Corbett's Shakers' Compound"	Canterbury Society of Shakers	4,722	Feb. 9	34	564
"Cosmétique au Rose"	E. Wendlandt	4,869	June 8	35	1116
"Cream White Honey." (for Soap)	J. S. Kirk & Co	4,954	Aug. 31	36	944
"Crystalline Phosphate"	Provident Chemical Works	4,984	Oct. 5	37	2
"D'Alton & Bain" (for Ginger Ale, Soda Water, and Sarsaparilla.)	D'Alton & Bain	4,734	Feb. 16	34	704
"D'Alton & Son," (for Beer)	D'Alton & Son	4,815	May 4	35	504
"Dahl's Dyspepsia Cake Manufacturing Company." (for Bread.)	H. A. C. Dahl	4,940	Aug. 24	36	825
"De Kalb's Lactated Soda Mint Tablets"	H. L. De Kalb	4,793	Apr. 20	35	260
"De Kalb's Pennyroyal Pills"	W. S. Taylor	4,730	Feb. 16	34	704

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Official Gazette. Page.
"De Kalb's Sulphur Pills"	H. L. De Kalb	4,839	May 18	35	754
"Deming's Charcoal," (not Willow, very much better)	A. B. Deming	4,961	Sept. 14	36	1154
"Dental Chewing Gum"	R. W. Morgan	4,772	Mar. 30	34	1394
"Dermal Hair Restorer"	E. P. Hughes	4,949	Aug. 31	36	944
"Deutsch-Amerikanische (Union Printer) Typographia" (for Printed Matter.)	C. Greifenberg	4,895	July 6	36	2
"Dickey," (For an Article of Personal Apparel)	Downs & Finch	5,005	Oct. 26	37	342
"Diphtheria Remedy"	H. Dierlamm	4,714	Feb. 2	34	440
"Dirksen's Pure Insect Powder"	H. Dirksen	4,841	May 18	35	754
"Domestic Package Dyes"	T. B. Dunn	4,916	July 27	36	350
"Donnell's Standard Household Ammonia"	W. Donnell	4,927	Aug. 10	36	574
"Double Face" (for Brussels Carpets)	J. W. Priestley	4,801	Apr. 20	35	260
"Double Face" (for Tapestry Carpets)	J. W. Priestley	4,800	Apr. 20	35	260
"Dowden's Dental Fluid"	J. B. Dowden & Co	4,760	Mar. 23	34	1280
"Downs' Self Adjusting Corset"	L. A. Downs	5,021	Nov. 16	37	678
"1 Doz. Main Springs American Waltham Watch Co. Waltham, Mass. U. S. A."	American Waltham Watch Company.	4,944	Aug. 31	36	944
"Dr. A. C. Hoxsie's Certain Croup Cure"	A. P. Hoxsie	4,716	Feb. 2	34	440
"Dr. Alberti's Tea"	E. Thiele	4,810	Apr. 27	35	390
"Dr. Bain's Dyspepsia Cure"	C. L. Capron	4,923	Aug. 3	36	460
"Dr. Bigelow's Stomach and Liver Pills"	A. G. Griggs	4,870	June 15	35	1232
"Dr. Bomar's American Chill Tonic"	J. C. Morgeson	4,797	Apr. 20	35	260
"Dr. Brown's Sarsaparilla Tonic"	Schoneberger Bros	5,000	Oct. 19	37	222
"Dr. Buckland's Scotch Oats Essence"	Scotch Oats Essence Co	4,803	Apr. 20	35	260
"Dr. Bury's Reliable Camphor Ointment"	R. P. Tunnard	5,024	Nov. 16	37	678
"Dr. Bury's Reliable Catarrh Snuff"	R. P. Tunnard	5,026	Nov. 16	37	678
"Dr. Bury's Reliable Lung Balsam"	R. P. Tunnard	5,025	Nov. 16	37	678
"Dr. D. Dyer," (for Gelatin or Sugar-Coated Pills)	J. F. Dyer	4,761	Mar. 23	34	1280
"Dr. D. Dyer's Gelatin or Sugar-Coated Headache, Dyspeptic and Liver Pills."	J. F. Dyer	4,762	Mar. 23	34	1280
"Dr. H. B. Knowles' Cough Syrup"	W. J. Fowler and J. S. Clark	4,958	Sept. 7	36	1048
"Dr. Harvey's Tobacco Antidote"	J. W. Harvey	4,948	Aug. 31	36	944
"Dr. Heim's Stomach Regulator and Blood Purifier"	A. F. Richter & Co	4,844	May 18	35	754
"Dr. J. L. Lighthall's Spanish Oil"	E. M. Kerley and W. C. Fountain	4,821	May 4	35	504
"Dr. Jacobs' Bitters"	C. W. Palmer	4,943	Aug. 24	36	824
"Dr. La Tour's Hospital Injection"	R. E. Stevenson	4,774	Mar. 30	34	1394
"Dr. Lloyd's Family Medicine"	W. R. Thompson	4,975	Sept. 28	36	1360
"Dr Marissal's Prescription." (for a Cough Medicine)	G. G. Dort & Co	5,066	Dec. 28	37	1360
"Dr. Parker's Vegetable Cure"	R. E. Stevenson	4,776	Mar. 30	34	1394
"Dr. Perry Bicknell's Cough Syrup"	E. O. Utley	5,017	Nov. 9	37	570
"Dr. Salfort Gregory's Powder"	L. McDermott	4,796	Apr. 20	35	260
"Dr. Solomon Barrett's Combination Tonic"	A. Barrett	4,857	June 1	35	1006
"Dr. Solomon Barrett's Prescription for diseases of the stomach and bowels."	A. Barrett	4,932	Aug. 17	36	696
"Dr. Todd's Tolu & Tar"	W. C. Buntin	4,767	Mar. 30	34	1394
"Dr. Van Wert's Balsam for the Lungs"	Van Wert Chemical Co	4,804	Apr. 20	35	260
"Dr. Witherspoon's Special Formula No. 268"	P. E. Witherspoon and F. Sugnet	4,805	Apr. 20	35	260
"Dr. Woolson's Universal Salve"	L. B. Woolson	4,733	Feb. 16	34	704
"Duffy Malt Whiskey Company," (for a Medical Compound)	Duffy Malt Whiskey Company	4,851	May 25	35	878
"E. & J. Burke, Finest Pale Ale"	E. & J. Burke	4,781	Apr. 6	35	2
"Eastern Distilling Co's D. D. Rye Gin"	Eastern Distilling Company	4,699	Jan. 12	34	134
"Egg Shampoo Cream"	W. F. Enssell	4,783	Apr. 6	35	2
"Eight Hour Tobacco"	Eight Hour Tobacco Company	4,860	June 1	35	1006
"Elixir of Beef"	O. Clapp & Son	4,945	Aug. 31	36	944
"Emmons' Pain Tincture"	E. S. Carpenter	4,701	Jan. 19	34	254
"Emrick's Compound" (for Preventing and Curing Disease in Hogs and Poultry.)	J. G. Henninger	4,752	Mar 9	34	1050
"English Spavin Liniment"	E. Detchon	4,987	Oct 12	37	104
"Estes' Improved Painters Smalt"	E. B. Estes & Sons	5,002	Oct. 19	37	222
"Eucalyptus Antiseptic Linseed Meal"	P. P. Rocke, Tompsitt & Co	4,837	May 11	35	632
"Export Soda." (for Crackers)	Van Derveer & Holmes Biscuit Company.	4,976	Sept. 28	36	1360
"Extension and Adjustable Clothing"	Klein, Goodhart & Koch	4,703	Jan. 19	34	254
"F. H. Metzger's Pain Eradicator"	W. J. Metzger	4,717	Feb. 2	34	440
"Fabric" (for Cloth)	Arnold Print Works	4,910	July 20	36	236
"Fermentation Vacuum Beer"	Pfaudler Vacuum Fermentation Company.	4,921	July 27	36	350
"Fibre Label" (for Paper)	Springfield Paper Company	4,755	Mar. 9	34	1050
"Fish's Sovereign Remedy for Piles"	W. H. Murphy	4,990	Oct. 12	37	104
"Florida Cough Balm and Liniment"	C. J. Matson	4,754	Mar. 9	34	1050
"Foorman's Stock Remedy, Manufactured by Eli Foorman, Eaton, Ind."	E. Foorman	4,994	Oct. 12	37	104
"Fowler's Chillbain Cure"	R. P. Fowler	4,928	Aug. 10	36	574
"Fowler's Compound Syrup Hypophosphites"	R. E. Stevenson	4,773	Mar. 30	34	1394
"French Finishing Oil and Leather Preserver"	J. Bensing	5,010	Nov. 9	37	570
"G. F. Grinnell's Balsam"	G. F. Grinnell	4,825	May 11	35	632
"G. W. Shotwell & Co's Cereal Compound" (for the Lungs)	G. W. Shotwell & Co	4,696	Jan. 12	34	134
"Genuine." (for a Medicinal Compound)	F. E. Gilbert	4,924	Aug. 3	36	460
"Georgia Climatic Tonic Blood Purifier"	A. F. Kelly	4,740	Feb. 23	34	830
"Ginger Ale"	Auburn Mineral Water Company	4,903	July 13	36	124
"Ginger Champagne" (for Ginger Ale)	T. J. and L. B. West and A. Cronk	4,726	Feb. 9	34	564
"Glasscock's Concentrated Cocaine Remedies"	Sallade & Eppinger	4,718	Feb. 2	34	440
"Globe Street Lamp No. 9"	C. T. Ham Manufacturing Company	5,060	Dec. 14	37	1128
"Goddard's Cough Syrup"	E. R. Gatchel	4,986	Oct. 5	37	2
"Gold Star," (for Smoking Tobacco)	Gradle & Strotz	5,052	Dec. 7	37	1006
"Grape Phosphates"	Tarrant & Company	4,823	May 4	35	504
"Gray's Arsenicated Emulsion of Pure Norwegian Cod Liver Oil."	H. V. Gray	4,794	Apr. 20	35	260
"Ground Finishing Lily White Lime"	G. Mark	4,882	June 22	35	1342
"Gutta Percha" (for Roofing)	W. H. Tice	4,846	May 18	35	754
"H. W. King & Co's Health Beverage"	H. W. King	4,988	Oct. 12	37	104
"Hagley Mills" (for Writing Paper)	Du Pont & Co	4,807	Apr. 27	35	390
"Harris' Cough Bitters"	R. T. Miller	4,764	Mar. 23	34	1280
"Harris' English Polish"	G. E. Harris	4,861	June 1	35	1006

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Official Gazette. Page.
"Heavy Flat Corset Laces"	Fletcher Manufacturing Company	4,877	June 15	35	1232
"Heavy Round Corset Laces"	Fletcher Manufacturing Company	4,876	June 15	35	1232
"Hoff's Hair and Scalp Remedy"	A. G. Creveling	4,814	May 4	35	504
"Hog Cholera Medicine"	Medinus & Iten	4,920	July 27	36	350
"Holloway's German Tonic"	F. McIntosh	4,890	June 29	35	1440
"Honey Extract" (for a Cough Sirup)	T. W. Halliday	4,757	Mar. 16	34	1162
"Honey, Horehound, Licorice, and Tar." (for Coughs and Colds.)	C. G. Pease	4,748	Mar. 2	34	936
"Howard's Compound Soap"	H. G. Fay	4,729	Feb. 16	34	704
"Huile D'Olives Vierge"	C. M. Roof	4,899	July 6	36	2
"I. A. Potter's New American Strengthening Plaster"	I. A. Potter & Co	4,809	Apr. 27	35	390
"Iceland Moss" (for a Medicine)	F. L. Whitcomb	5,032	Nov. 16	37	678
"Impervious Safety Oil Can"	Impervious Package Company	5,049	Dec. 7	37	1006
"Improved German Embrocation"	C. E. Van Pelt	4,936	Aug. 17	36	696
"Improved Selters"	Meyer & De Esterre	4,818	May 4	35	504
"India Aromatic Ale"	S. Twitchell & Bro	4,966	Sept. 14	36	1154
"Indian Cough Syrup"	D. Bakley	4,813	May 4	35	504
"Ingluvin, Prepared from the Ventriculus Callosus Gallinaceus."	W. R. Warner	5,001	Oct. 19	37	222
"Iron Phosphites," (for a Beverage)	C. Beck	4,858	June 1	35	1006
"Isaac Davis" (for Distilled Petroleum)	I. Davis	4,816	May 4	35	504
"J. A. Hubbard's Ash Remedy"	J. A. Hubbard	4,769	Mar. 30	34	1394
"J. E. Jackson's Pleasant Diarrhea Cure"	J. E. Jackson	4,980	Oct. 5	37	2
"Jacob C. Luden's Gold Plating Solution"	J. C. Luden	4,827	May 11	35	632
"Japanese Cigarettes"	W. S. Kimball & Co	4,985	Oct. 5	37	2
"Jelly of Glycerine and Roses"	A. L. Helmbold	4,887	June 29	35	1440
"Jersey Doll." (for Stuffed Dolls made of Jersey Cloth)	C. A. Andrews	4,959	Sept. 14	36	1154
"Jewett's Anti-Friction Bullet Paste"	A. Jewett	4,820	May 4	35	504
"John C. Roderuck's Family Liniment"	J. C. Roderuck	4,855	May 25	35	878
"K. L." (for Bread)	W. E. Kibby	4,906	July 13	36	124
"Kalamazoo Celery Bitters"	P. L. Abbey and W. C. Tuthill	4,719	Feb. 9	34	564
"Kalamazoo Celery Tonic"	W. C. Tuthill	4,883	June 22	35	1342
"Kalium" (for Spring Water)	W. Jones	4,862	June 1	35	1006
"Kelly's Sure Cure Hog and Poultry Remedy"	A. T. Kelly	4,881	June 22	35	1342
"Kieffer Bros. Manufacturers" (For Packages for Stove Repairs.)	Kieffer Bros	5,007	Oct. 26	37	342
"Killing-Red" (for a Paint for Brick Floors and Pavements)	J. T. Hopkins	5,038	Nov. 23	37	788
"Kingan & Co." (for Pork Products)	Kingan & Co	4,795	Apr. 20	35	260
"Kirtleys Appetizer." (For a medicine)	W. F. Kirtley	5,008	Nov. 2	37	458
"Knights of Labor Soap"	Adrot, Christello & Co	4,901	July 13	36	124
"L. P. Ganter's Chicken Cholera Cure"	L. P. Ganter	4,949	Aug. 31	36	944
"L. F. Ganter's Tooth Ache Cure"	L. F. Ganter	4,925	Aug. 3	36	460
"Lactated Ginger Ale"	F. M. Criswell	4,850	May 25	35	878
"Larrabee's Snow Flake Biscuits"	E. J. Larrabee & Co	4,770	Mar. 30	34	1394
"Larrabee's Snow Flake Biscuits"	E. J. Larrabee & Co	4,771	Mar. 30	34	1394
"Le Page's Improved Liquid Glue for Family Use"	Le Page's Liquid Glue & Cement Co.	5,043	Nov. 30	37	896
"Le Page's Improved Liquid Glue. It Sticks everything, Ornaments, Leather, Glass, Marble, &c."	Le Page's Liquid Glue & Cement Co.	5,044	Nov. 30	37	896
"Le Page's Improved Liquid Glue, Manf'd by Le Page's Liquid Glue & Cement Co."	Le Page's Liquid Glue & Cement Co.	5,042	Nov. 30	37	896
"Lebanon Overalls"	Carter & Churchill	4,750	Mar. 9	34	1050
"Leipziger Burgunder Wein Bitter"	Hochstadter & Co	4,768	Mar. 30	34	1394
"Lenni Mills" (for Writing Paper)	Du Pont & Co	4,808	Apr. 27	35	390
"Leonards Hamburg Corn Remover"	Leonard & Co	4,878	June 15	35	1232
"Levalley Power Transmitting Chain"	C. W. Levalley	4,879	June 15	35	1232
"Levulose Ferride," (For a Medical Preparation of Iron)	Graff & Dannenbaum	5,015	Nov. 9	37	570
"Liquid Opaque" (for a Coating for Photographic Negatives)	G. A. Goehner	4,929	Aug. 10	36	574
"Long Cloth" (for Cotton Prints)	Arnold Print Works	4,885	June 29	35	1440
"Lyon's Face Powder"	W. Lyon	4,941	Aug. 24	36	824
"M. W. Co. Ship Time." (for Watch Dials)	Manhattan Watch Company	4,970	Sept. 21	36	1250
"Madame Julye Myers' Flagroot Cordial"	J. Myers	4,798	Apr. 20	35	260
"Magnetic Vitalizer." (for Magnetic Appliances)	A. P. Lighthill	4,917	July 27	36	350
"Manahan's Double-Strength Pure Pine Tar Oakum Paper, for Preventing Moths."	M. E. Manahan	4,888	June 29	35	1440
"Manford's White Pine Cordial"	M. W. McMillen	4,919	July 27	36	350
"Mann Bro's Dowel Ware." (for Wooden Pails, Tubs, &c)	Mann Brothers	4,863	June 1	35	1006
"Marion." (for Cigars)	Krug Bros	4,999	Oct. 19	37	222
"Massey's Elder Flower and Cucumber Cream" (for Cosmetics.)	Caswell, Massey & Co	4,751	Mar. 9	34	1050
"McMillen's White Pine Cough Cordial"	M. W. McMillen	4,995	Oct. 12	37	104
"Medicated Cough Pastilles"	Dabbs Brothers	5,033	Nov. 23	37	788
"Method of Packing Confectionery"	J. R. Stout	4,974	Sept. 28	36	1360
"Mineral Water"	Virginia Buffalo Lithia Springs Company.	4,824	May 4	35	504
"Morgan's Throat Tablets"	H. M. Barnes	5,065	Dec. 28	37	1360
"Moschcowitz Improved Bustle Springs"	Moschcowitz Brothers	4,724	Feb. 9	34	564
"Mrs. C. Hopkins' Celebrated Cough Syrup"	C. Hopkins	4,853	May 25	35	878
"Mrs. Claxton's Family Medicine"	F. J. Heath	4,715	Feb. 2	34	440
"Mrs. L. D. Boynton's Family Salve"	L. B. Hoit	4,934	Aug. 17	36	696
"Mrs Ophelia Kelner's Vegetable Preparation for the Hair"	O. Kelner	5,066	Dec. 28	37	1360
"Navy Chewing and Smoking Tobacco"	Wackerbarth & Joseph	4,893	June 29	35	1440
"Nichols' Carbolized Tooth Powder"	M. S. Nichols	4,707	Jan. 26	34	344
"Nichols' Dyspepsia Specific"	J. C. Keefe and J. B. Nichols	4,739	Feb. 23	34	830
"No More Dark Lard! No More Dark Tallow!"	S. Birkenwald & Co	4,886	June 29	35	1440
"Oakwood" (for Whisky)	Mayer Brothers & Co	4,889	June 29	35	1440
"Oatmeal Bitters" (for a Proprietary Medicine)	T. J. Dabney	4,859	June 1	35	1006
"Oregon Grape Root Bitters"	J. D. Eastman & Co	4,737	Feb. 23	34	830
"Our Extra" (for Skirts)	L. Dryfoos & Co	4,744	Mar. 2	34	926
"Our Own American Family Soap"	J. E. Kirk & Co	4,854	May 25	35	878
"Oyster Plug" (for Tobacco)	Gem City Tobacco Works	4,746	Mar. 2	34	926
"Paged or Numbered." (for Writing Pads or Tablets)	H. L. Lipman	4,896	June 8	35	1116
"Paris Braid Gold Medal"	Lesher, Whitman & Co	4,782	Apr. 6	35	2
"Patrick's Prepared Sanitary Coffee"	G. W. Patrick & Co	5,030	Nov. 16	37	678
"Pedacura Combination Corn Cure"	P. White Proprietary Company	4,907	July 13	36	124
"Peeler's Hair Grower"	A. Peeler	5,069	Dec. 28	37	1360

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Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"Pepsin-Magen-Bittern"	L. E. L. Arp	4,874	June 15	35	1232
"Perfect Baking Powder"	H. E. Norton	4,955	Aug. 31	36	944
"Perkins' Infallible Liver Pills"	J. Perkins	5,061	Dec. 14	37	1128
"Permanent Chloride Paper"	Eastman Dry Plate and Film Company.	4,702	Jan. 19	34	254
"Permanent Photo Crayon." (for Photographs)	T. C. Marcean	4,989	Oct. 12	37	104
"Peroxide Red Paint"	Nickel Smelting and Peroxide Color Company.	4,845	May 18	35	754
"Perrine's Pure Barley Malt Whiskey"	M. & J. S. Perrine	5,019	Nov. 9	37	570
"Peychaud's American Aromatic Bitter Cordial"	L. E. Jung	5,050	Dec. 7	37	1006
"Phosphated Ginger Ale"	F. M. Criswell	4,849	May 25	35	878
"Phosphated Iron Tonic"	A. E. Acker	4,884	June 29	35	1440
"Phosphates of Iron." (for a Health Drink)	C. Beck	4,865	June 8	35	1116
"Phosphorated Ginger Cream Extract"	B. W. Carpenter & Co	4,867	June 8	35	1116
"Pomeroy's Petroline Poroused Plasters"	Peleg White Proprietary Co	4,935	Aug. 17	36	696
"Prescription Number 2907"	E. H. Perkins	4,708	Jan. 26	34	344
"Printed Fabric" (for Cloth)	Arnold Print Works	4,911	July 20	36	236
"Pure Sea Shell" (for a Tooth Powder)	C. E. Davis	4,817	May 4	35	504
"Quinine and Sulphur" (for Soap)	Vail Brothers	4,779	Mar. 30	34	1394
"Railroad Service" (for Overalls)	Carter & Churchill	4,790	Apr. 20	35	260
"Reversible" (for Brussels Carpets)	J. W. Priestley	4,799	Apr. 20	35	260
"Reversible" (for Tapestry Carpets)	J. W. Priestley	4,802	Apr. 20	35	260
"Rheumatic Specific"	R. Drake	4,756	Mar. 16	34	1162
"Ribbed Body Brussels Carpet"	J. W. Priestley	4,834	May 11	35	632
"Ribbed Body Brussels Carpet"	J. W. Priestley	4,835	May 11	35	632
"Ribbed Carpet"	J. W. Priestley	4,833	May 11	35	632
"Ribbed Carpet"	J. W. Priestley	4,836	May 11	35	632
"Roberts Positive Cure for Rheumatism"	R. H. Laby	4,712	Jan. 26	34	344
"Roller Corset"	A. S. Mann	4,898	July 6	36	2
"Roller Lacing" (for Corsets, Gloves, Shoes, &c)	A. S. Mann	4,897	July 6	36	2
"Rose-Sandal" (for Perfumes)	T. J. France	4,723	Feb. 9	34	564
"Rose Soda" (for Beverages and Beverage Extracts)	S. Twitchell & Bro	4,965	Sept. 14	36	1154
"Ross' Oxygenated Water" (for a Beverage)	W. S. Ross	4,709	Jan. 26	34	344
"Rudolph's Great English Blood Purifier"	Hegeman & Co	4,896	July 6	36	2
"Rudolph's Soluble Iron Pills"	Hegeman & Co	4,735	Feb. 16	34	704
"Sarah Buckby Pearson's Remedy"	K. L. Koenig	4,763	Mar. 23	34	1280
"School Sewing System Box"	L. J. Kirkwood	4,992	Oct. 12	37	104
"Schuyler's Pile Panacea"	J. Schuyler	4,930	Aug. 10	36	574
"Seaver's Uterine Lotion"	De Witt C. and M. B. Seaver	4,784	Apr. 6	35	2
"Self-Raising Corn Meal"	Waring Bros	4,937	Aug. 17	36	696
"Seven Sutherland Sisters' Hair and Scalp Cleaner"	H. Bailey	4,812	May 4	35	504
"Seven Sutherland Sisters' Hair Grower"	H. Bailey	4,811	May 4	35	504
"Shaker Sarsaparilla Lozenges"	Canterbury Society of Shakers	4,721	Feb. 9	34	564
"Shepard's Condition Powders"	L. C. Shepard	4,908	July 13	36	124
"Shufelt's Dyspepsia Cure"	H. M. Shufelt	4,909	July 13	36	124
"Silica Polish" (for Cleaning and Polishing Compounds)	Plymouth Silica Company	4,741	Feb. 23	34	630
"Slocum's Coltsfoot Expectorant"	P. R. Whitcomb	4,971	Sept. 21	36	1250
"Smith's Chill Syrup"	G. E. Smith	5,022	Nov. 16	37	678
"Smith's Remedies"	A. M. Smith	5,037	Nov. 23	37	788
"Soda Lemonade"	S. Twitchell & Bro	4,856	May 25	35	878
"Soft Shoes for Tender Feet"	C. S. Grover	4,747	Mar. 2	34	926
"Specialty Candy Co. Assorted Box of Popular Cough Candies."	D. B. Aitken	5,009	Nov. 9	37	570
"Square Street Lamp No. 10"	C. T. Ham Manufacturing Company	5,059	Dec. 14	37	1128
"Stafford's Vegetable Blood Purifier"	M. Stafford	4,766	Mar. 23	34	1280
"Stitched Canvas Belting"	Chesapeake Belting Co	5,016	Nov. 9	37	570
"Strongest Made Lester Boot"	Lester & Co	4,753	Mar. 9	34	1050
"Stronitia Mineral Spring Water"	Stronitia Spring Company	4,697	Jan. 12	34	134
"Stub" (for Falcon Pens)	L. Isaacs & Co	5,035	Nov. 23	37	788
"Sulpho-Chromic Salt"	Partz Electric Battery Company	4,964	Sept. 14	36	1154
"Sulpho Lotio the Infallible Skin Cure"	J. J. Wolf	4,922	July 27	36	350
"Suspenders"	J. M. Pevey	4,765	Mar. 23	34	1280
"That Red Liniment"	H. Kessler	4,700	Jan. 12	34	134
"The American Circulating Library Co." (for Book Covers)	W. E. Allen & Co	4,902	July 13	36	124
"The American Water-Proof Oil"	J. Bensing	5,055	Dec. 14	37	1128
"The Bristle Whisk Brush"	R. Cahill	4,713	Feb. 2	34	440
"The Durable Shovel"	W. Wharton, Jr., & Co	4,742	Feb. 23	34	630
"The Family Emergency Medicine Chest"	T. J. Hutton	5,063	Dec. 14	37	1128
"The Great Ante-Anthrax Remedy"	F. J. Smith	4,990	July 6	36	2
"The Great English Remedy, Dr. Fowler's Kidney Cure"	R. E. Stevenson	4,775	Mar. 30	34	1394
"The Great South American Nervine Tonic and Stomach and Liver Cure."	E. Detchon	4,875	June 15	35	1232
"The Hatch Counter," (for Boots and Shoes)	J. L. Hatch	4,852	May 25	35	878
"The Hatch Counters," (for Counters for Boots and Shoes)	J. L. Hatch	4,871	June 15	35	1232
"The Improved Belt Stud"	Greene, Tweed & Co	4,968	Sept. 21	36	1250
"The Indelible Crayon"	A. F. Fairfield	4,695	Jan. 12	34	134
"The Ipswich Jersey"	Ipswich Mills	4,891	June 29	35	1440
"The Magic Mosquito Bite Cure"	Sallade & Co	4,711	Jan. 26	34	344
"The Moravian Instant Relief from Pain"	G. G. Stacy	5,023	Nov. 16	37	678
"The "No. 1" Sick Headache Remedy"	A. W. Floyd	5,067	Dec. 28	37	1360
"The Old Style Belt Stud"	Greene, Tweed & Co	4,947	Aug. 31	36	944
"The Oregon Peach Bitters"	H. Klas	5,018	Nov. 9	37	570
"The Part-Payment Clothing Company"	N. A. Bacharach	5,027	Nov. 16	37	678
"The Perfection" (for Candles)	Boyce Brothers	4,866	June 8	35	1116
"The Philadelphia Pruning Shears"	I. B. Seeley	4,785	Apr. 6	35	2
"The Plumbers' Purifier and Disinfectant"	J. E. Cook	5,012	Nov. 9	37	570
"The Silk Hat Handkerchief," (for a Prepared Cloth for Polishing Hats.)	W. C. Van Vliet	4,847	May 18	35	754
"The Spear Perfect Fertilizer"	B. Spear	4,698	Jan. 12	34	134
"The Sure Cure Kidney & Liver Remedy"	J. Keeshan	5,029	Nov. 16	37	678
"The Workingman's Beneficial Association." (for Books and Pamphlets.)	J. W. Priestley and A. H. Titus, Jr.	4,973	Sept. 28	36	1360
"This Black is positively fast and will Not crock." (for Jersey Waists.)	Ipswich Mills	4,892	June 29	35	1440
"Thorn's Hop and Burdock Tonic"	I. B. Thorn	4,864	June 1	35	1006

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"Toboggan" (for a Sleigh-Shoe in the Shape of a Toboggan)	I. B. Seeley	4,838	May 11	35	632
"Tonic Comp." (for a Medicine)	P. S. Redfield	5,072	Dec. 28	37	1360
"Tonic Milk Phosphates or Chemical Food"	G. A. Strauss	4,926	Aug. 3	36	460
"Tonic Phosphates"	T. B. Cooke	4,914	July 27	36	350
"Tonic Phosphates Pills"	Hegeman & Company	5,006	Oct. 26	37	342
"Trout's Dyspepsia Tablets"	Z. T. Trout	5,062	Dec. 14	37	1128
"Try Me," (for Straw Cutters)	G. S. Garth	5,048	Dec. 7	37	1006
"Tubular Square Lamp No. 6"	C. T. Ham Manufacturing Company	5,056	Dec. 14	37	1128
"Tubular Square Lamp No. 7"	C. T. Ham Manufacturing Company	5,057	Dec. 14	37	1128
"Tubular Square Lamp No. 8"	C. T. Ham Manufacturing Company	5,058	Dec. 14	37	1128
"Union Cigar Maker's Label, of Cigar Maker's Union No. 44 of St. Louis, Mo., of the Cigar Maker's International Union of America"	J. Deitz	4,905	July 13	36	124
"Union Label," (for Whiting and Paris White)	E. V. Crandall	4,904	July 13	36	124
"Universal Cure or Panacea"	J. E. Swords	5,070	Dec. 28	37	1360
"Vegetable, Horse, Cattle & Poultry Powder"	Barker, Moore & Mein	4,931	Aug. 17	36	696
"Vegetable Nerve Food"	S. P. Clark & Co	4,933	Aug. 17	36	696
"W. N. Le Page's Improved Carriage Glue"	Le Page's Liquid Glue & Cement Co.	5,045	Nov. 30	37	896
"W. W. Dillard" (for Manufactured Tobacco)	W. W. Dillard	4,819	May 4	35	504
"Wagner's Dropsy and Kidney Cure"	J. Wagner	4,873	June 15	35	1232
"Warner & Co's Bromo Soda"	W. R. Warner	4,912	July 20	36	236
"Warner & Co's Effervescing Bromo Potash"	W. R. Warner	5,039	Nov. 23	37	788
"Warren's Standard Treeing Composition"	P. J. Lobben	4,704	Jan. 19	34	254
"Waverly School Shoe"	Bemis & Fletcher	5,003	Oct. 19	37	222
"We Protect our Trade" (for Cigars)	W. A. Conner	5,013	Nov. 9	37	570
"Web-Holder," (for Apparatus for Exposing Photographic Paper or Films.)	Eastman Dry Plate and Film Company.	4,842	May 18	35	754
"Wessel's Cough Cordial"	F. Wessel	5,071	Dec. 28	37	1360
"Wei de Lesseps' Norman Balsam"	C. A. Thompson	4,956	Aug. 31	36	944
"West India Cough Syrup"	H. F. Hurff	4,826	May 11	35	632
"Western Lead Works Strictly Pure White Lead"	Cary, Ogden & Parker	4,960	Sept. 14	36	1154
"Westlake's Vegetable Ointment"	W. Westlake	4,758	Mar. 16	34	1162
"What to do in Cases of Poisoning" (for an Accident Case)	Scabury & Johnson	5,046	Nov. 30	37	896
"Wheat Germicelli"	Colby & Buskirk	4,913	July 27	36	350
"White Manilla"	Ticonderoga Pulp and Paper Company.	4,778	Mar. 30	34	1394
"White Pine and Balsam of Fir Cough Syrup"	H. P. Chace and G. W. Flood	4,792	Apr. 20	35	260
"White Railroad Manilla." (for Paper)	Ticonderoga Pulp and Paper Company.	4,777	Mar. 30	34	1394
"Whitman's Pure Cocoa"	S. F. Whitman & Son	4,991	Oct. 12	37	104
"Whitmore's Refined Pancreatic Emulsion"	J. E. Whitmore	4,705	Jan. 19	34	254
"Whittemore's Sacramento Ague Specific"	F. W. Whittemore	4,977	Sept. 28	36	1360
"Williams' Emulsion of Cod Liver Oil with Hypophosphite of Lime."	Jenks & Jefferis	4,732	Feb. 16	34	704
"Williamson's Cream" (for the Skin)	F. G. Williamson	4,638	Aug. 17	36	696
"Wilson's Vegetable Oil"	D. G. Wilson & Co	4,731	Feb. 16	34	704
"Witch Hazel Ointment"	A. P. Lighthill	4,918	July 27	36	350
"Woolford's Sanitary Lotion"	E. Detchon	4,840	May 18	35	754
"Wynn's Stove Polish"	L. D. Wynn	4,788	Apr. 13	35	140
"Yellow Burlap" (for Covers or Bags for Hams and other Pork and Beef Products.)	G. C. Bonbright	4,759	Mar. 23	34	1280
"Yerks' Shoe Dressing"	J. E. Yerks	4,848	May 18	35	754

DISCLAIMERS.

Invention.	Patentee.	No. of patent.	Date of patent.	Disclaimer filed.	Official Gazette. Vol.	Page.
Boot and shoe	Frank L. Straw and Benjamin F. Sparrow.	170,028	Nov. 16, 1875	Dec. 7, 1886	37	1128
Grinding-machine	John M. Haigis	286,429	Oct. 9, 1883	Nov. 9, 1886	37	678
Gun. Machine	William Gardner	174,130	Feb. 29, 1876	Mar. 11, 1886	34	1162
Satchel lock	William Roemer	208,541	Oct. 1, 1878	Jan. 2, 1886	34	134
Store-service apparatus	Joseph C. White	229,783	July 6, 1880	Oct. 6, 1886	37	104
Transom-lifter	John F. Wollensack. (Reissue)	9,307	July 20, 1880	Nov. 19, 1886	37	896

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